

March 29, 2022

Mr. Eric Smith
Ardagh Glass Inc
24441 Avenue 12
Madera, CA 93637

Re: Notice of Final Action - Title V Permit Renewal
Facility Number: C-801
Project Number: C-1212579

Dear Mr. Smith:

The District has issued the Final Renewed Title V Permit for Ardagh Glass Inc (see enclosure). The preliminary decision for this project was made on January 18, 2022.

No comments were received subsequent to the District's preliminary decision. However, the District has made an administrative change to the permit to remove references to outdated non-federally enforceable county rules. Therefore, the District has administratively revised conditions #1, 2, and 39 on PTO C-801-0-5 of the renewed operating permit to remove the aforementioned rules. The public notice for issuance of the Final Title V Permit will be posted on the District's website (www.valleyair.org).

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Errol Villegas, Permit Services Manager, at (559) 230-5900.

Sincerely,



Brian Clements
Director of Permit Services

Enclosures

cc: Courtney Graham, CARB (w/enclosure) via email
cc: Laura Yannayon, EPA (w/enclosure) via EPS

Samir Sheikh
Executive Director/Air Pollution Control Officer

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

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-8000 FAX: (559) 230-6061

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: (861) 392-5500 FAX: (861) 392-5585

Permit to Operate

FACILITY: C-801

EXPIRATION DATE: 01/31/2027

LEGAL OWNER OR OPERATOR:

ARDAGH GLASS INC

MAILING ADDRESS:

24441 AVENUE 12
MADERA, CA 93637-9384

FACILITY LOCATION:

24441 AVENUE 12 & ROAD 24 1/2
MADERA, CA 93637

FACILITY DESCRIPTION:

GLASS MANUFACTURING

The Facility's Permit to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

This Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

Samir Sheikh
Executive Director / APCO

Arnaud Marjollet
Director of Permit Services

San Joaquin Valley Air Pollution Control District

FACILITY: C-801-0-5

EXPIRATION DATE: 01/31/2027

FACILITY-WIDE REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1]
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0]
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate. Any amendments to these Facility-wide Requirements that affect specific Permit Units may constitute modification of those Permit Units.

Facility Name: ARDAGH GLASS INC
Location: 24441 AVENUE 12 & ROAD 24 1/2, MADERA, CA 93637
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11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit

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

23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8021] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8031] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8041] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8051] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8061] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rules 8011 and 8071] Federally Enforceable Through Title V Permit
35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

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

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced) and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
42. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin July 15th of every year, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit
43. When applicable to 40 CFR Part 68, a subject facility shall submit to the proper authority a Risk Management Plan, and comply with all the requirements of Program 1, 2 or 3 when mandated by the regulation. [40 CFR 68] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-1-22

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

75 MMBTU/HR (APPROXIMATELY) OXY-FUEL NATURAL GAS-FIRED (WITH PROPANE BACKUP) CONTAINER GLASS MELTING FURNACE #1 (NORTH) WITH COMBUSTION TEC LOW NOX BURNERS OR CUSTOM DILUTE COMBUSTION BURNERS, 2,000 KVA ELECTRIC BOOST, A BLOWER AIR STAGING (BAS) SYSTEM, NOX, SOX, CO AND O2 CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS), AND THREE (3) PRODUCTION LINES EACH WITH A 10 INDIVIDUAL SECTION (IS) FORMING MACHINE WITH A MCGILL AIRCLEAN MODEL 3-700 SEMI-DRY SCRUBBER/ESP SYSTEM (COMMON TO FURNACE #2), AND A CONTINUOUS OPACITY MONITORING SYSTEM (COMS)

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
2. Particulate matter emissions shall not exceed the maximum allowable emission rate (lb/hr), as determined using the following formula: $E = 3.59 \times P^{0.62}$, where E equals the maximum allowable emission rate (lb/hr) and P equals the process weight rate (tons/hr) and is less than or equal to 30 tons/hr. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Discharge of sulfur compounds shall not exceed in concentration at the point of discharge 0.2 percent by volume calculated as SO₂, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801]
4. The furnace shall be equipped with a continuous emission monitor (CEM) for NO_x, CO, and O₂. This CEM shall be located in the duct for furnace #1 upstream of the point where furnace #1 and furnace #2 emissions merge into a common duct. [District Rule 4354] Federally Enforceable Through Title V Permit
5. Continuous emissions monitor(s) shall meet the requirements of 40 CFR part 51, 40 CFR parts 60.7 and 60.13, 40 CFR part 60 Appendix B (Performance Specifications) and Appendix F (Quality Assurance Procedures), and applicable sections of Rule 1080 (Stack Monitoring). [District Rule 4354] Federally Enforceable Through Title V Permit
6. The common exhaust stack for furnaces #1 and #2 shall be equipped with a continuous opacity monitoring system (COMS) downstream of the control equipment. Continuous emissions monitor(s) shall meet the requirements of 40 CFR part 60.13 and 40 CFR part 60 Appendix B (Performance Specification 1), and applicable sections of Rule 1080 (Stack Monitoring). [District Rule 1080] Federally Enforceable Through Title V Permit
7. The common exhaust stack for furnaces #1 and #2 shall be equipped with a continuous emission monitor (CEM) for SOX at the inlet of the scrubber and downstream of the control equipment. Continuous emissions monitor(s) shall meet the requirements of 40 CFR part 51, 40 CFR parts 60.7 and 60.13, 40 CFR part 60 Appendix B (Performance Specifications) and Appendix F (Quality Assurance Procedures), and applicable sections of Rule 1080 (Stack Monitoring). [District Rules 1080 and 4354] Federally Enforceable Through Title V Permit
8. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

9. 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
10. 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
11. The owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F, 5.1.1 at least once every four calendar quarters. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F. [District Rule 1080] Federally Enforceable Through Title V Permit
12. Audits of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy and compliance source testing are both performed, in accordance with EPA guidelines. The District shall be notified prior to completion of the audits. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rule 1080] Federally Enforceable Through Title V Permit
13. Permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F. [District Rule 1080] Federally Enforceable Through Title V Permit
14. Permittee shall submit a written report to the APCO for each calendar quarter, within 30 days of the end of the quarter, including: time intervals, data and magnitude of excess emissions; nature and cause of excess (averaging period used for data reporting shall correspond to the averaging period for each respective emission standard); corrective actions taken and preventive measures adopted; applicable time and date of each period during a CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and a negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
15. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NO_x, CO, and O₂ analyzer during District inspections. The sampling ports shall be located upstream of the point where furnace #1 and furnace #2 emissions merge into a common duct. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
16. Compliance demonstration (source testing) shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
17. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (as amended December 16, 1993). [District Rule 1081] Federally Enforceable Through Title V Permit
18. The container glass pull rate from furnace #1 shall not exceed either of the following limits: 450 U.S. short tons per day or 157,680 U.S. short tons per year. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
19. Annual emissions from furnace #1 and #2 combined shall not exceed either of the following limits: 265,632 lb-SO_x/year or 164,719 lb-PM₁₀/year. [District Rule 2201] Federally Enforceable Through Title V Permit
20. Except during idling, start-up, or shutdown, emissions rates from this unit shall not exceed any of the following limits: 0.8 lb-SO_x/ton of container glass pulled, 1.0 lb-CO/ton of container glass pulled, or 0.25 lb-VOC/ton of container glass pulled. SO_x emissions limit is based on a 24 hour rolling average. CO and VOC emissions limits are based on a three hour rolling average. [District Rules 2201 and 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.

21. 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] Federally Enforceable Through Title V Permit
22. Emissions from this furnace shall not exceed either of the following limits: 450.0 lb-CO/day or 21.6 lb-VOC/day. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Except during idling, start-up, or shutdown, Particulate Matter emissions (as PM₁₀) shall not exceed 0.5 pounds per ton glass pulled on a block 24-hour average from the glass melting furnace. [District Rule 4354] Federally Enforceable Through Title V Permit
24. Except during idling, start-up, or shutdown, NO_x emissions from this furnace shall not exceed 1.3 lbs/ton of glass produced, on a 30 day rolling average basis. [District Rules 2201 and 4354 and USEPA Consent Decree 2:10-cv-00121-TSZ, Section III.6.t, IV.7.c.iii.1, entered on May 7, 2010] Federally Enforceable Through Title V Permit
25. NO_x, CO, VOC, SO_x, and PM₁₀ emissions during idling shall not exceed the emissions limits as calculated using the following equation: NO_x, CO, VOC, SO_x, or PM₁₀ (lb/day) = (Applicable emission limit (in lbs/ton)) x (Furnace permitted production capacity (in tons/day)). [District Rule 4354] Federally Enforceable Through Title V Permit
26. 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] Federally Enforceable Through Title V Permit
27. The length of time allowed for a start-up shall be determined by the APCO and EPA on a case-by-case basis, in accordance with District Rule 4354. [District Rule 4354] Federally Enforceable Through Title V Permit
28. The permittee shall operate and maintain the electrostatic precipitator (ESP) system to reduce particulate emissions to 0.2 pounds of particulate per ton of glass pulled, using EPA Method 5 as set forth in 40 C.F.R. Part 60, Appendix A, and 0.45 pounds of particulate per ton of glass pulled, using the combined results of EPA Methods 5 and 202 as set forth in 40 C.F.R. Part 60, Appendix A. [District Rule 2201] Federally Enforceable Through Title V Permit
29. Monitoring of the ESP shall comply with the requirements of 40 CFR Part 64. [District Rule 4354] Federally Enforceable Through Title V Permit
30. The ESP shall be operated at a secondary voltage of at least 12 kV. [District Rules 2520 and 4354 and 40 CFR 64] Federally Enforceable Through Title V Permit
31. The ESP secondary voltage shall be monitored and recorded at a minimum during every one hour of operation. [District Rules 2520 and 4354 and 40 CFR 64] Federally Enforceable Through Title V Permit
32. If the monitored ESP secondary voltage is below the minimum allowable voltage, the permittee shall return the voltage to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the ESP secondary voltage readings continue to be below the allowable range after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100 (as amended December 17, 1992), the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 2520 and 4354 and 40 CFR 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

33. The permittee shall operate, and maintain a monitoring and recording system to accurately measure and record the furnace melter crown temperature at least once per hour. [District Rule 4354] Federally Enforceable Through Title V Permit
34. The furnace melter crown temperature shall be maintained at or above 1,800 degrees F. If the measured furnace temperature is less than 1,800 degrees F, the permittee shall conduct a certified VOC source test within 60 days to re-establish the minimum temperature limit. In lieu of conducting a certified VOC source test, the permittee may stipulate that a violation has occurred, subject to enforcement action. The permittee must then correct the violation (return the furnace temperature to or above the minimum temperature limit), 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] Federally Enforceable Through Title V Permit
35. The permittee shall keep records of the date and time of the furnace melter crown temperature readings and the furnace melter crown temperature measured during the most recent source test that demonstrated ongoing compliance with the VOC emission limit. [District Rule 4354] Federally Enforceable Through Title V Permit
36. The permittee shall operate and maintain the semi-dry scrubber system to reduce SO_x emissions by at least 85%, excluding days when the scrubber inlet's daily average concentration of SO₂ is 353 ppmvd or less, in which case the scrubber outlet's daily average concentration of SO₂ shall be reduced to at least 53 ppmvd, except during periods of scheduled or preventative maintenance. The averaging period for the reduction efficiency shall be calculated on a rolling 30-day average basis, excluding days when the scrubber inlet's daily average concentration of SO₂ is 353 ppmvd or less. Compliance with the SO_x reduction efficiency and daily concentration standard shall be demonstrated by the combined ductwork scrubber inlet and downstream of the control equipment outlet SO₂ continuous concentration monitoring. [District Rule 2201] Federally Enforceable Through Title V Permit
37. This unit shall be fired on PUC regulated natural gas or LPG backup fuel only. [District Rule 2201] Federally Enforceable Through Title V Permit
38. Certification of the continuous opacity monitoring system (COMS) shall be demonstrated by meeting the requirements of 40 CFR Part 60.13 and 40 CFR Part 60, Appendix B, Performance Specification 1. [40 CFR 60.13] Federally Enforceable Through Title V Permit
39. Source testing to measure NO_x, CO, and VOC emissions shall be conducted once every calendar year, but no more than every 18 months and not sooner than every 6 months. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
40. Source testing to measure SO_x and PM₁₀ emissions shall be conducted at the outlet of the combined furnace #1 and furnace #2 ductwork once every calendar year, but no more than every 18 months and not sooner than every 6 months. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
41. Source testing shall be conducted using the following test methods: NO_x (heat input basis) - USEPA Method 19, NO_x (ppmv) - USEPA Method 7E or CARB Method 100; CO (ppmv) - USEPA Method 10 or CARB Method 100; VOC (ppmv) - USEPA Method 25A, expressed in terms of carbon; Stack gas oxygen, carbon dioxide, excess air and dry molecular weight - USEPA Method 3 or 3A, or CARB Method 100; Stack gas velocity and volumetric flow rate - USEPA Method 2; SO_x - USEPA Method 6C or 8 or CARB Method 100; PM₁₀ - EPA methods 201 and 202, or EPA methods 201A and 202, or CARB method 501 in conjunction with CARB method 5. In lieu of performing a source test for PM₁₀, the results of CARB Method 5 or EPA Methods 5 and 8 may be used for compliance with the PM₁₀ emissions limit. If this option is used, then all of the particulate emissions will be considered to be PM₁₀. [District Rules 1081, 2520 and 4354] Federally Enforceable Through Title V Permit
42. Source test results shall be representative of normal operations, but not less than 60 percent of the permitted glass production capacity. [District Rule 4354] Federally Enforceable Through Title V Permit
43. For operators using alternative monitoring systems, during the source test, the operator shall monitor and record, at a minimum, all operating data for each parameter, fresh feed rate, and flue gas flow rate and submit this data with the test report. [District Rule 4354] Federally Enforceable Through Title V Permit

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44. 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] Federally Enforceable Through Title V Permit
45. 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] Federally Enforceable Through Title V Permit
46. 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] Federally Enforceable Through Title V Permit
47. Compliance testing for particulate shall be conducted at the outlet of the combined furnace #1 and furnace #2 ductwork in accordance with USEPA Reference Methods 1, 2, 5, and 202 as set forth in 40 CFR Part 60, Appendix A. Each test shall consist of three runs. The sampling time and volume for each run shall be at least 60 minutes and 31.8 dry standard cubic feet. Thereafter, compliance testing of particulate matter shall be conducted on an annual basis within 60 days of the anniversary date of the latest compliance testing. [District Rule 1081] Federally Enforceable Through Title V Permit
48. Commercial arsenic shall not be used as a raw material in this glass furnace. This prohibition is required for continued exemption from the requirements of 40 CFR 61, Subpart N. [District Rule 2520] Federally Enforceable Through Title V Permit
49. Idling is defined as the operation of the furnace at less than 25% of the permitted production capacity or fuel use capacity as stated on the Permit to Operate. [District Rule 4354] Federally Enforceable Through Title V Permit
50. The emission control system shall be in operation whenever technologically feasible during idling to minimize emissions. Emissions of NO_x, CO, VOC, SO_x, and PM₁₀ during idling shall not exceed the amount as calculated pursuant to Rule 4354. Notifications shall be performed and records kept in accordance with Rule 4354. [District Rule 4354] Federally Enforceable Through Title V Permit
51. Shutdown shall mean the period of time during which the glass melting furnace is purposely allowed to cool from its operating temperature and molten glass is removed from the tank for the purpose of a furnace rebuild or reconstruction, or during a natural gas curtailment, or, subject to EPA's approval, when it is commercially necessary. [District Rule 4354] Federally Enforceable Through Title V Permit
52. The duration of shutdown, as measured from the time the furnace operations drop below the idle threshold specified in Rule 4354 to when all emissions from the furnace cease, shall not exceed 20 days. The emission control system shall be in operation whenever technologically feasible during shutdown to minimize emissions. Notifications shall be performed and records kept in accordance with Rule 4354. [District Rule 4354] Federally Enforceable Through Title V Permit
53. Start-up shall mean the period of time, after initial construction, a furnace rebuild, or a shutdown, during which the glass melting furnace is heated to operating temperature by the primary furnace combustion systems, and systems and instrumentation are brought to stabilization and calibrated. The operator shall submit a request for a start-up exemption to the APCO, ARB, and EPA in conjunction with or in advance of an application for Authority to Construct (ATC) associated with a furnace rebuild. The emission control system shall be in operation as soon as technologically feasible during start-up to minimize emissions and notifications shall be performed and records kept in accordance with Rule 4354. [District Rule 4354] Federally Enforceable Through Title V Permit
54. NO_x, CO, VOC, SO_x and PM₁₀ emission limitations of District Rule 4354 shall not apply during periods of routine maintenance of an add-on emission control system as long as the routine maintenance does not exceed 144 hours total per calendar year for all add-on controls and the routine maintenance is conducted in a manner consistent with good air pollution control practices for minimizing emissions. [District Rule 4354] Federally Enforceable Through Title V Permit

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55. Operators shall maintain daily records of the following items: total hours of operation, the quantity of glass pulled from each furnace, NO_x emission rate in lb/ton glass pulled, CO emission rate, VOC emission rate, SO_x emission rate in lb/ton glass pulled, PM₁₀ emission rate in lb/ton glass pulled, weight of mixed color cullet used, total amount of cullet used by weight, ratio, expressed in percent, of mixed color mix weight to total cullet weight, source tests and source test results, maintenance and repair, malfunction, idling, start-up, and shutdown. For pollutants monitored using an approved parametric monitoring arrangement, operators shall maintain records of the acceptable range for each approved key system operating parameter, as established during source test, and shall record the operating values of the key system operating parameters at the approved recording frequency. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
56. Aggregated emissions for a given pollutant of a furnace battery are the emissions for the pollutant as measured at the common stack divided by the sum of the daily glass pulled from each furnace. [District Rule 4354] Federally Enforceable Through Title V Permit
57. An operator of either furnace battery or multiple furnaces that elects to meet the emission limits for the furnaces through the requirements of Section 9.7 shall be subject to a 10% air quality benefit in accordance with 40 CFR Part 51 Subpart U. The maximum emission rate shall be at least 10% lower than the applicable limit specified in Section 5.1 (Tier 3 NO_x), Section 5.2 (CO and VOC), Section 5.3 (SO_x), or Section 5.4 (PM₁₀), for each pollutant subject to this option. [District Rule 4354] Federally Enforceable Through Title V Permit
58. The operator of a furnace battery or multiple furnaces choosing the alternate emission limit shall operate the furnace battery or multiple furnaces according to Sections 9.7.3 through 9.7.8.5. Only those pollutants with emissions that are averaged across multiple furnaces/furnace battery are subject to all subparts of Section 9.7. Pollutant emissions that are not averaged across multiple furnaces/furnace battery are subject to the applicable emission limits of Sections 5.1 through 5.4. [District Rule 4354] Federally Enforceable Through Title V Permit
59. The daily aggregate emissions shall be no greater than those obtained by controlling each furnace to comply individually with applicable emission limits, less the 10% air quality benefit. [District Rule 4354] Federally Enforceable Through Title V Permit
60. The operator shall demonstrate compliance with the daily aggregate emissions through source test results and monitoring by either CEMS or approved alternate emission monitoring methods. [District Rule 4354] Federally Enforceable Through Title V Permit
61. Any violation of the aggregated emission limits shall constitute a violation of the rule for each furnace for the entire averaging period. [District Rule 4354] Federally Enforceable Through Title V Permit
62. The operator shall notify the APCO of any violation of Rule 4354 Section 9.7.3 within 24 hours. The notification shall include: name and location of the facility; identification of furnace(s) causing the violation; the cause and the expected duration of violation; calculation of actual NO_x, CO, VOC, SO_x, and PM₁₀ emissions during the violation; corrective actions and schedules to complete the work. [District Rule 4354] Federally Enforceable Through Title V Permit
63. The permittee shall retain records for a period of five years; make the records available on site during normal business hours to the APCO, ARB, or EPA; and submit the records to the APCO, ARB, or EPA upon request. [District Rules 1070, 2201, and 4354] Federally Enforceable Through Title V Permit
64. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 (as amended December 17, 1992), District Rule 4202 (as amended December 17, 1992), District Rule 4354 (as amended May 19, 2011), and District Rule 4801 (as amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
65. The requirements of District Rule 4301 (as amended December 17, 1992) were determined to not apply to this unit. A permit shield is granted from this requirement. [District Rule 2520] Federally Enforceable Through Title V Permit
66. The requirements of 40 CFR 61, Subpart N were determined to not apply to this unit. A permit shield is granted from this requirement. [District Rule 2520] Federally Enforceable Through Title V Permit

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67. The permittee shall comply with the applicable emission limits specified in 40 CFR Part 63 Subpart SSSSSS Table 1. Existing glass melting furnace that produces glass at an annual rate of at least 45 Mg/yr (50 tpy) and is charged with compounds of arsenic, cadmium, chromium, manganese, lead, or nickel as raw materials shall meet one of the following emission limits: the 3-hour block average production based PM mass emission rate must not exceed 0.1 gram per kilogram (g/kg) (0.2 pound per ton (lb/ton)) of glass produced; or the 3-hour block average production based metal HAP mass emission rate must not exceed 0.01 g/kg (0.02 lb/ton) of glass produced. The permittee may request the APCO to grant an extension allowing up to one additional year to comply with the applicable emission limits if such additional period is necessary for the installation of emission controls. [40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
68. A furnace that produces glass at an annual rate of at least 45 Mg/yr (50 tpy) and is not charged with glass manufacturing metal HAP, and begins production of a glass product that includes one or more glass manufacturing metal HAP as raw materials, and produces at least 45 Mg/yr (50 tpy) of this glass product, shall comply with the applicable emission limit specified in Section 63.11451 within 2 years of the date on which the facility introduced production of the glass product that contains glass manufacturing metal HAP. [40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
69. For each monitoring system required by this subpart, the permittee shall calibrate, operate, and maintain the monitoring system according to the manufacturer's specifications and the requirements specified in Section 63.11454 paragraphs (a)(1) through (7). [40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
70. For each existing furnace that is subject to the emission limit specified in Table 1 to this subpart and is controlled with an ESP, the permittee shall meet the requirements specified in Section 63.11454 paragraphs (b)(1) or (2). The permittee shall monitor the secondary voltage and secondary electrical current to each field of the ESP according to the requirements of Section 63.11454 paragraph (a) or submit a request for alternative monitoring, as described in Section 63.11454 paragraph (g). [40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
71. The permittee shall be in compliance with the applicable emission limits in this subpart at all times, except during periods of startup, shutdown, and malfunction. [40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
72. The permittee shall always operate and maintain the affected source, including air pollution control and monitoring equipment, according to the provisions in Section 63.6(e)(1)(i). [40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
73. For each affected furnace that is subject to the emission limit specified in Table 1 to this subpart, the permittee shall monitor the performance of the furnace emission control device under the conditions specified in Section 63.11454(a)(7) and according to the requirements in Sections 63.6(e)(1) and 63.8(c) and Section 63.11455 paragraphs (c)(1) through (6). [40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
74. The permittee shall perform periodic inspections and maintenance of each affected furnace control device according to the requirements in Section 63.11455 paragraphs (d)(1) through (4). For each ESP, the permittee shall conduct inspections according to the requirements in Section 63.11455 paragraphs (d)(2)(i) through (iii). The permittee shall conduct visual inspections of the system ductwork, housing unit, and hopper for leaks at least every 12 months. The permittee shall conduct inspections of the interior of the ESP to determine the condition and integrity of corona wires, collection plates, plate rappers, hopper, and air diffuser plates every 24 months. If an initial inspection is not required, as specified in Section 63.11453(b)(3)(ii), the first inspection must not be more than 24 months from the last inspection. The permittee shall record the results of each periodic inspection specified in this section in a logbook (written or electronic format), as specified in Section 63.11457(c). If the results of a required inspection indicate a problem with the operation of the emission control system, the permittee shall take immediate corrective action to return the control device to normal operation according to the equipment manufacturer's specifications or instructions. [40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
75. For each affected furnace that is subject to the emission limit specified in Table 1 to this subpart and can meet the applicable emission limit without the use of a control device, the permittee shall demonstrate continuous compliance by satisfying the applicable recordkeeping requirements specified in Section 63.11457. [40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit

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76. The permittee shall keep the records specified in Section 63.11457 paragraphs (a)(1) through (8). [40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
77. Records must be in a form suitable and readily available for expeditious review, according to Section 63.10(b)(1). The permittee shall record the results of each inspection and maintenance action in a logbook (written or electronic format). The permittee shall keep the logbook onsite and make the logbook available to the permitting authority upon request. As specified in §63.10(b)(1), the permittee shall keep each record for a minimum of 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
78. "24-hour Block Average" shall be calculated by averaging the twenty-four (24) one-hour relevant data outputs (concentration or pounds) for a given day and using the daily glass production rates (tons) on that Operating Day where applicable. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section III.6.a, entered on May 7, 2010] Federally Enforceable Through Title V Permit
79. "Abnormally Low Production Rate (ALPR)" shall mean a glass production rate at or below the production rate (P) set forth below, unless production capacity is increased through a permit modification. For Furnace #1, ALPR = 158 tons per day. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section III.6.c and IV.10, entered on May 7, 2010] Federally Enforceable Through Title V Permit
80. "Abnormally Low Production Rate Day" shall mean any Operating Day where production falls into the range of Abnormally Low Production Rate for the Furnace, for at least one continuous hour. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section III.6.d, entered on May 7, 2010] Federally Enforceable Through Title V Permit
81. "CEMS Certification Event" shall mean an event that triggers the requirement to complete a first or subsequent CEMS Certification. Events that will trigger subsequent CEMS Certification include a Furnace Startup or a First Control Device Startup. Permittee shall commence such recertification no later than thirty (30) days after the Furnace Startup period concludes (but not later than seventy (70) days after Furnace Startup commences) or First Control Device Startup period concludes. If a Furnace Startup and a First Control Device Startup happen at the same time, then the recertification shall not be conducted until the first Operating Day after the conclusion of the later startup event. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section III.6.h, entered on May 7, 2010]
82. "Color Transition" shall mean the period of not more than seven days from the time when a glass color of an oxidation state different from that previously melted in the Furnace is introduced to the Furnace to the time when saleable glass bottles are being produced in the new color. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section III.6.j, entered on May 7, 2010] Federally Enforceable Through Title V Permit
83. "Day" shall mean a calendar day unless expressly stated to be a working day or unless a State rule requires that CEMS data be reported on Standard time (with no change for Daylight Savings Time). In computing any period of time for determining reporting deadlines for Consent Decree requirements, where the last day would fall on a Saturday, Sunday, or federal or State holiday, in the State where the Facility is located, the period shall run until the close of business the next working day. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section III.6.r, entered on May 7, 2010] Federally Enforceable Through Title V Permit

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84. "Emission Rate 30-day Rolling Average" shall be expressed as pounds of pollutant per ton of glass produced calculated at the Furnace in question in accordance with the following formula: $30\text{-day average (lb-E/ton)} = (\text{COD E(lbs)} + \text{P29D E(lbs)}) / (\text{COD Prod(tons)} + \text{P29D Prod(tons)})$ where 30-day average (lb-E/ton) = The Emission Rate 30-day Rolling Average; E = Emissions of the pollutant in question (NOx or SO2); COD = Current Operating Day where the relevant Emission Rate 30-day Rolling Average is the applicable limit; COD E = The daily Emission as measured by a CEMS (continuous emission monitoring system) on the COD, in pounds; COD Prod = Daily glass production on the COD, in tons of glass; P29D = Previous 29 Operating Days where the relevant Emission Rate 30-day Rolling Average is the applicable limit; P29D E = Sum of the daily NOx or SO2 Emissions as measured by a CEMS during the P29D, in pounds; P29D Prod = Sum of the daily glass production during the P29D, in tons of glass. (i) A new Emission Rate 30-day Rolling Average shall be calculated for each new Operating Day where the Emission Rate 30-day Rolling Average is the applicable standard. Any Operating Day where the newly calculated Emission Rate 30-day Rolling Average exceeds the limit is a separate one Day violation; and (ii) As specified in the Global Consent Decree, some Operating Days will be excluded from the Emission Rate 30-day Rolling Average. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section III.6.t, entered on May 7, 2010] Federally Enforceable Through Title V Permit
85. "Furnace" means, for the purposes of NSPS only, a refractory vessel in which raw materials are charged, melted at high temperature, refined, and conditioned to produce molten glass which includes foundations, superstructure and retaining walls, raw material charger system, heat exchanger, melter cooling system, exhaust system, refractory brick work, fuel supply and electrical boosting equipment, integral control systems and instrumentation, and appendages for conditioning and distributing molten glass to forming apparatuses. For all other purposes, "Furnace" means a unit comprised of a refractory-lined vessel in which raw materials are charged and melted at high temperature to produce molten glass. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section III.6.x, entered on May 7, 2010] Federally Enforceable Through Title V Permit
86. "Furnace Startup" means the period of time while a Furnace's refractory is being heated up from ambient temperature and includes the Initial Heating Phase, Refractory Soak and Seal Phase, and Furnace Stabilization Phase. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section III.6.y, entered on May 7, 2010] Federally Enforceable Through Title V Permit
87. "Initial Heating Phase" means the slow heating of the Furnace refractory using portable natural-gas burners placed in the openings in the Furnace. This phase typically lasts no longer than four (4) days and ends when the main Furnace burners commence operation. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section III.6.y.i, entered on May 7, 2010] Federally Enforceable Through Title V Permit
88. "Refractory Soak and Seal Phase" means the phase of the Furnace Startup following the Initial Heating Phase when the Furnace is filled with molten glass, the temperature of the Furnace reaches operating conditions, and the refractory components reach thermal equilibrium. This phase typically lasts no longer than twenty-one (21) days and ends when the joints between the refractory components are sealed and the Furnace is closed to the atmosphere. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section III.6.y.ii, entered on May 7, 2010] Federally Enforceable Through Title V Permit
89. "Furnace Stabilization Period" means the phase of Furnace Startup following the Refractory Soak and Seal Phase when the Furnace Operation is being stabilized. This phase will end no later than seventy (70) days after the beginning of the Initial heating Phase. However, notwithstanding the previous sentence, EPA or SJVAPCD may seek stipulated penalties if permittee has unduly delayed completion of the Furnace Stabilization Phase. Permittee must track the status of the Furnace Startup as required in Exhibit A of the Global Consent Decree. Exhibit A includes conditions that may be used to indicate whether the Furnace Stabilization Phase should have been completed earlier than 70 days after the beginning of the Initial Heating Phase. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section III.6.y.iii, entered on May 7, 2010] Federally Enforceable Through Title V Permit
90. "Hot Spot Temperature" shall mean the highest temperature of the Furnace breastwall refractory. Breastwall refractory is the refractory sidewall between the tuck stone (about 18 inches above the glass line) and the crown skew (where the Furnace crown meets the Furnace sidewall). [USEPA Consent Decree 2:10-cv-00121-TSZ, Section III.6.z, entered on May 7, 2010] Federally Enforceable Through Title V Permit
91. "Maintenance" shall mean activities necessary to keep the system or equipment working in its normal operation condition. [USEPA Consent Decree 2:10-cv-00121-TSZ, Citation III.6.cc, entered on May 7, 2010] Federally Enforceable Through Title V Permit

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92. "Malfunction" shall mean, consistent with 40 CFR 60.2, any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner, but shall not include failures that are caused in part by poor Maintenance or careless operation. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section III.6.ee, entered on May 7, 2010] Federally Enforceable Through Title V Permit
93. "Operating Day" shall mean any Day where any fuel is fired into the Furnace. The Day starts at 12:00 a.m. and ends at 11:59 p.m. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section III.6.kk, entered on May 7, 2010] Federally Enforceable Through Title V Permit
94. Limit emissions of Sulfuric Acid (H₂SO₄) Mist to no greater than 1.0 pounds per ton of glass produced. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section IV.8.n, entered on May 7, 2010] Federally Enforceable Through Title V Permit
95. Compliance with the Sulfuric Acid Mist emission limit shall be demonstrated by a stack test conducted on Furnace #1 using EPA Conditional Test Method 13A or B once per Title V permit renewal term. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section IV.8.n, entered on May 7, 2010] Federally Enforceable Through Title V Permit
96. Permittee shall maintain, and operate the Oxyfuel Furnace such that the gas that provides the oxidant for combustion of the fuel is at least 90 percent oxygen. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section IV.7.b.i, IV.7.c.ii, entered on May 7, 2010] Federally Enforceable Through Title V Permit
97. The Furnace may not exceed the Emission Rate 30-day Rolling Average limit of 1.3 pounds NO_x per ton of glass produced, as measured using NO_x CEMS (commencing on the first Operating Day after the completion of the Furnace Startup period and CEMS Certificate), except that the permittee may elect to exclude the emissions generated during the following periods from the Emission Rate 30-day Rolling Average: Abnormally Low Production Rate Days, Furnace Startup, malfunction of the Furnace, and Maintenance of the Furnace. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section III.6.t, IV.7.c.iii.1, entered on May 7, 2010] Federally Enforceable Through Title V Permit
98. For any Abnormally Low Production Rate Day where production falls into the range of ALPR for at least one continuous hour, permittee may exclude emissions generated during that Day from the Emission Rate 30-day Rolling Average. During these Days, a CEMS shall be used to demonstrate compliance with the 24-hour Block Average limit of 587 lb/day of NO_x. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section IV.7.c.iii.2, entered on May 7, 2010] Federally Enforceable Through Title V Permit
99. For any Operating Day when the Furnace is in startup, the following limits apply: (a) Initial Heating Phase Operational Limit: permittee shall burn no more than 5.0 million standard cubic feet (5.0 MMscf) of natural gas in Furnace #1; (b) Refractory Soak and Seal Phase Operational Limits: (i) Burn no more than 60 MMscf of natural gas; (ii) Limit excess oxygen below 5% at the furnace exhaust flue as determined by a handheld monitor once per shift; (iii) Limit hot spot temperature to 2,900 degrees F; and (iv) Use thermal blankets or similar techniques to minimize air infiltration until expansion joints are sufficiently closed; (c) Furnace Stabilization Phase Operational Limits: (i) Burn no more than 90 MMscf of natural gas; (ii) Limit excess oxygen below 5% at the furnace exhaust flue as determined by a handheld monitor once per shift; and (iii) Limit hot spot temperature to 2,900 degrees F. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section IV.7.c.iii.3, entered on May 7, 2010] Federally Enforceable Through Title V Permit
100. For any Operating Day when a Malfunction of the Furnace occurs for any period of time, permittee may elect to exclude the emissions generated during that Operating Day (Operating Days if the event covers more than one Operating Day) from the Emission Rate 30-day Rolling Average. During the Malfunction Days excluded from the Emission Rate 30-day Rolling Average, a CEMS shall be used to demonstrate compliance on a 24-hour Block Average with a 2,348 lb/day limit. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section IV.7.c.iii.4, entered on May 7, 2010] Federally Enforceable Through Title V Permit

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101. For any Operating Day where Maintenance activities on the Furnace are performed, permittee may elect to exclude the emissions generated during the Maintenance Day from the Emission Rate 30-day Rolling Average. For any maintenance Day which is excluded from the 30-day rolling average, a CEMS shall be used to demonstrate compliance on a 24-hour Block average with a pound per day limit calculated using the equation below: $\text{NOx OxyMaint} = \frac{(\text{MH} \times 4 \times \text{NOx Oxy Abn})}{24} + \frac{(\text{NH} \times \text{NOx Oxy Abn})}{24}$ where NOx OxyMaint = NOx emission limit for an Oxyfuel Furnace during a Maintenance Day, in pounds per day; MH = Hours of Maintenance; NH = Normal Hours = 24 - MH; NOx Oxy Abn = NOx emission limit for an Oxyfuel Furnace during an Abnormally Low Production Rate Day, in pounds per day = 587 lb/day for Furnace #1. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section IV.7.c.iii.5, entered on May 7, 2010] Federally Enforceable Through Title V Permit
102. CEMS Certification cannot occur during periods of Abnormally Low Production Rate Days, Furnace Startup, Malfunction, Maintenance, or Color Transition. Permittee shall commence a new CEMS Certification on the Furnace on the first Operating Day after each CEMS Certification Event concludes on the Furnace. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section IV.15.a, entered on May 7, 2010] Federally Enforceable Through Title V Permit
103. If a CEMS Certification Event occurs, then the requirement to demonstrate compliance continuously with the limit for the Furnace will be suspended until Certification is completed (provided the seven-day test required for Certification is commenced the first Operating Day following the conclusion of the CEMS Certification Event). [USEPA Consent Decree 2:10-cv-00121-TSZ, Section IV.7.f, entered on May 7, 2010] Federally Enforceable Through Title V Permit
104. For any Operating Day that permittee is excluding emissions from the relevant Emission Rate 30-day Rolling Average, it shall record the date, the exception (Abnormally Low Production Rate Day, Furnace Startup, Furnace Malfunction, Furnace Maintenance) under which it is excluded, a calculation of the applicable limit (pounds per day) according to the appropriate equations, and the recorded emissions according to the CEMS (pounds per day). For any Operating Day excluded for Maintenance, permittee shall record the total number of hours during which maintenance occurred. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section IV.7.h, entered on May 7, 2010] Federally Enforceable Through Title V Permit
105. Maintenance Days that permittee elects to exclude from the Emission Rate 30-day Rolling Average shall not include more than 96 hours of Maintenance annually for Furnace #1. Maintenance shall mean activities necessary to keep the system or equipment working in its normal operating condition, including checker burning and raking. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section IV.13.a, entered on May 7, 2010] Federally Enforceable Through Title V Permit
106. Recordkeeping and Reporting requirements applicable to Furnace Startup: (a) For the Initial Heating Phase: (i) Total natural gas usage in Furnace #1 (in MMscf); (b) For the Refractory Soak and Seal Phase: (i) Total natural gas usage in Furnace #1 (in MMscf); (ii) Excess oxygen percentage at Furnace exhaust flue (as determined by handheld monitor once per shift); (iii) Hot Spot Temperature (measured once per shift); and (iv) A certified statement asserting whether thermal blankets or similar techniques were used during this period; (c) For the Furnace Stabilization Phase: (i) Total natural gas usage in Furnace #1 (in MMscf); (ii) Excess oxygen percentage at the Furnace Exhaust flue (as determined by handheld monitor once per shift); and (iii) Average Hot Spot Temperature (measured once per shift). [USEPA Consent Decree 2:10-cv-00121-TSZ, Section IV.7.i, entered on May 7, 2010] Federally Enforceable Through Title V Permit
107. At all times, including periods of Abnormally Low Production Rate Days, Furnace Startup, Malfunction, Maintenance, and Color Transition, permittee shall, to the extent practicable, maintain and operate all Furnaces in a manner consistent with good air pollution control practices for minimizing emissions. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section IV.12, entered on May 7, 2010] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-2-15

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

85 MMBTU/HR (APPROXIMATELY) GLASS OXY-FUEL FIRED FURNACE #2 (SOUTH) WITH 3,600 KVA OF ELECTRIC BOOST AND (2) TWO PRODUCTION LINES (ONE WITH A 16 INDIVIDUAL SECTION (IS) FORMING MACHINE ONE WITH A 20 INDIVIDUAL SECTION (IS) FORMING MACHINE) WITH A MCGILL AIRCLEAN MODEL 3-700 SEMI-DRY SCRUBBER/ESP SYSTEM (COMMON TO FURNACE #1), A CONTINUOUS OPACITY MONITORING SYSTEM (COMS), A NOX CONTINUOUS EMISSIONS RATE MONITORING SYSTEM (CERMS), AND A SOX CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS)

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
2. Particulate matter emissions shall not exceed the maximum allowable emission rate (lb/hr), as determined using the following formula: $E = 3.59 \times P^{0.62}$, where E equals the maximum allowable emission rate (lb/hr) and P equals the process weight rate (tons/hr) and is less than or equal to 30 tons/hr. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Discharge of sulfur compounds shall not exceed in concentration at the point of discharge 0.2 percent by volume calculated as SO₂, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
4. The new exhaust system for furnaces #1 and #2 shall be designed, installed, and maintained according to good engineering practices, including minimizing dilution air in the stack exhaust stream prior to measurement of opacity. [District Rule 1080] Federally Enforceable Through Title V Permit
5. The permittee shall maintain and operate this oxy-fuel furnace such that the combustion oxidant is at least 90% oxygen. [District Rule 1080] Federally Enforceable Through Title V Permit
6. The permittee shall maintain and operate staged combustion low NO_x oxy-fuel burners on this furnace. [District Rule 1080] Federally Enforceable Through Title V Permit
7. The permittee shall install a fused cast crown on this oxy-fuel furnace. The permittee shall maintain the fused cast crown for the life of the oxy-fuel furnace unless it can show, at the time of any necessary repairs to the fused cast crown, that the fused cast crown has proven technically or economically infeasible to maintain. [District Rule 1080] Federally Enforceable Through Title V Permit
8. Furnace shutdown shall not exceed 20 days, measured from the time furnace operations drop below the idle threshold 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
9. During the shutdown period, the emission control systems shall be in operation as soon as technologically feasible to minimize emissions. [District Rule 4354] Federally Enforceable Through Title V Permit
10. The emission control systems shall be in operation at all times during normal operations, and whenever technologically feasible including during startup, idling, transition, and shutdown conditions. [District Rule 4354] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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11. Scheduled or preventative maintenance of the emission control systems shall only occur during idling or after shutdown. [District Rule 1080] Federally Enforceable Through Title V Permit
12. When a malfunction of this oxy-fuel furnace or any of the air pollution equipment occurs, the permittee shall attempt to repair the malfunction as soon as practicable, but in no event longer than 12 hours. Off-shift labor and overtime must be utilized, to the extent practicable, to ensure that such repairs are made expeditiously. If after 12 hours, the malfunction is not correct, the oxy-fuel furnace must be taken to idling within 12 additional hours. Malfunction shall mean a sudden and unavoidable failure or breakdown of air pollution control equipment that: (a) is caused by circumstances beyond the control of the owner and/or operator; (b) is not the result of intent, neglect, or disregard of air pollution control laws, rules or regulations; (c) is not the result of improper maintenance; and (d) is not an excessively recurrent breakdown of the same equipment. [District Rule 1080] Federally Enforceable Through Title V Permit
13. The furnace shall be equipped with a continuous emission monitoring system (CEMS) for CO and O2. This CEM shall be located in the duct for furnace #2 upstream of the point where furnace #1 and furnace #2 emissions merge into a common duct. [District Rule 4354] Federally Enforceable Through Title V Permit
14. The furnace shall be equipped with a continuous emissions rate monitoring system (CERMS) for NOx. This CERMS shall be located in the duct for furnace #2 upstream of the point where furnace #1 and furnace #2 emissions merge into a common duct. [District Rule 4354] Federally Enforceable Through Title V Permit
15. The common exhaust stack for furnaces #1 and #2 shall be equipped with a continuous opacity monitoring system (COMS) downstream of the control equipment. Continuous emissions monitor(s) shall meet the requirements of 40 CFR part 60.13 and 40 CFR part 60 Appendix B (Performance Specification 1), and applicable sections of Rule 1080 (Stack Monitoring). [District Rule 1080] Federally Enforceable Through Title V Permit
16. The common exhaust stack for furnaces #1 and #2 shall be equipped with a continuous emission monitor (CEM) for SOx at the inlet of the scrubber and downstream of the control equipment. Continuous emissions monitor(s) shall meet the requirements of 40 CFR part 51, 40 CFR parts 60.7 and 60.13, 40 CFR part 60 Appendix B (Performance Specifications) and Appendix F (Quality Assurance Procedures), and applicable sections of Rule 1080 (Stack Monitoring) (as amended December 17, 1992). [District Rule 1080] Federally Enforceable Through Title V Permit
17. Continuous emissions monitor(s) shall meet the requirements of 40 CFR part 51, 40 CFR parts 60.7 and 60.13, 40 CFR part 60 Appendix B (Performance Specifications) and Appendix F (Quality Assurance Procedures), and applicable sections of Rule 1080 (Stack Monitoring). [District Rule 4354] Federally Enforceable Through Title V Permit
18. 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
19. 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
20. 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
21. The owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F, 5.1.1 at least once every four calendar quarters. The permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F. [District Rule 1080] Federally Enforceable Through Title V Permit
22. Audits of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy and compliance source testing are both performed, in accordance with EPA guidelines. The District shall be notified prior to completion of the audits. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rule 1080] 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.

23. Permittee shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emission monitor equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F. [District Rule 1080] Federally Enforceable Through Title V Permit
24. Permittee shall submit a written report to the APCO for each calendar quarter, within 30 days of the end of the quarter, including: time intervals, data and magnitude of excess emissions; nature and cause of excess (averaging period used for data reporting shall correspond to the averaging period for each respective emission standard); corrective actions taken and preventive measures adopted; applicable time and date of each period during a CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and a negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
25. The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable NO_x, CO, and O₂ analyzer during District inspections. The sampling ports shall be located upstream of the point where furnace #1 and furnace #2 emissions merge into a common duct. The sampling ports shall be located in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
26. Compliance demonstration (source testing) shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
27. All required source testing shall conform to the compliance testing procedures described in District Rule 1081 (as amended December 16, 1993). [District Rule 1081] Federally Enforceable Through Title V Permit
28. Annual emissions from furnace #1 and #2 combined shall not exceed either of the following limits: 265,632 lb-SO_x/year or 164,719 lb-PM₁₀/year. [District Rule 2201] Federally Enforceable Through Title V Permit
29. Annual emissions from this furnace shall not exceed either of the following limits: 252,473 lb-NO_x/year, 95,618 lb-PM₁₀/year, and 36,593 lb-VOC/year on a twelve (12) month rolling average. [District Rule 2201] Federally Enforceable Through Title V Permit
30. Compliance with the Annual Emission Limits for NO_x, PM₁₀, and VOC will be demonstrated utilizing the following calculation procedure: Annual Emissions (lb/year) = (a x b), where a = annual container glass pull rate (tons/year, based on a 12-month rolling average) and b = [for NO_x: CEMS reading] [for PM₁₀ and VOC: average source test emission factor (lb/ton of container glass pulled, based on source tests performed in the previous 12 months)]. [District Rule 2201] Federally Enforceable Through Title V Permit
31. The container glass pull rate from furnace #2 shall not exceed 600 U.S. short tons per day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
32. Except during idling, start-up, or shutdown, Particulate Matter emissions (as PM₁₀) shall not exceed 0.5 pounds per ton glass pulled on a block 24-hour average from the glass melting furnace. [District Rule 4354] Federally Enforceable Through Title V Permit
33. Except during idling, transition, start-up, or shutdown, emissions rates from this unit shall not exceed any of the following limits: 0.8 lb-SO_x/ton of container glass pulled, 0.2 lb-CO/ton of container glass pulled, or 0.2 lb-VOC/ton of container glass pulled. SO_x emissions limit is based on a 24 hour rolling average. CO and VOC emissions limits are based on a three hour rolling average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
34. Emissions from this furnace shall not exceed 120.0 lb-CO/day (equivalent to 0.2 lb-CO/ton of container glass pulled). [District Rule 2201] Federally Enforceable Through Title V Permit
35. Except during idling, transition, start-up, or shutdown, NO_x emissions from this furnace shall not exceed 1.3 lbs/ton of glass produced, on a 24 hour block average basis. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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36. The NOx emission rate measured by the CERMS in pounds per hour shall be converted to pounds of NOx per ton of glass pulled according to the following equation: $\text{NOx emissions rate (lbs-NOx/ton of glass pulled)} = [\text{NOx CERMS (lbs-NOx/hr)}] / [\text{glass pull rate (tons of glass pulled/hr)}]$. [District Rule 1080] Federally Enforceable Through Title V Permit
37. 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 NOx, 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] Federally Enforceable Through Title V Permit
38. During idling and transition, NOx emissions from this oxy-fuel furnace (calculated as a block 24-hour period) shall not exceed 780.0 pounds per day. NOx emissions shall be determined by the NOx and flow monitoring required by this permit. When idling or a transition occurs for less than 24 hours in a day, this NOx emission limit shall apply and NOx emissions from 12:00 a.m. through 11:59 p.m. on that day shall be included in the calculation of the total daily NOx emissions. [District Rule 4354] Federally Enforceable Through Title V Permit
39. This oxy-fuel furnace shall have no more than six transitions during any calendar year. Once a transition begins, production must exceed 50% of the permitted production capacity or be less than 25% of the permitted production capacity for at least 24 hours before another transition can be initiated. [District Rule 1080] Federally Enforceable Through Title V Permit
40. NOx, CO, VOC, SOx, and PM10 emissions during idling shall not exceed the emissions limits as calculated using the following equation: $\text{NOx, CO, VOC, SOx, and PM10 (lb/day)} = (\text{Applicable emission limit (in lbs/ton)}) \times (\text{Furnace permitted production capacity (in tons/day)})$. [District Rule 4354] Federally Enforceable Through Title V Permit
41. 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] Federally Enforceable Through Title V Permit
42. The length of time allowed for a start-up shall be determined by the APCO and EPA on a case-by-case basis, in accordance with District Rule 4354 (amended 09/16/2010). [District Rule 4354] Federally Enforceable Through Title V Permit
43. The permittee shall operate and maintain the electrostatic precipitator (ESP) system to reduce particulate emissions to 0.2 pounds of particulate per ton of glass pulled, using EPA Method 5 as set forth in 40 C.F.R. Part 60, Appendix A, and 0.45 pounds of particulate per ton of glass pulled, using the combined results of EPA Methods 5 and 202 as set forth in 40 C.F.R. Part 60, Appendix A. [District Rule 2201] Federally Enforceable Through Title V Permit
44. Monitoring of the ESP shall comply with the requirements of 40 CFR Part 64. [District Rule 4354] Federally Enforceable Through Title V Permit
45. The ESP shall be operated at a secondary voltage of at least 12 kV. [District Rules 2520 and 4354 and 40 CFR 64] Federally Enforceable Through Title V Permit
46. The ESP secondary voltage shall be monitored and recorded two times during every eight hours of operation. [District Rules 2520 and 4354 and 40 CFR 64] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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47. If the monitored ESP secondary voltage is below the minimum allowable voltage, the permittee shall return the voltage to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the ESP secondary voltage readings continue to be below the allowable range after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100 (as amended December 17, 1992), the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 2520 and 4354 and 40 CFR 64] Federally Enforceable Through Title V Permit
48. The permittee shall operate, and maintain a monitoring and recording system to accurately measure and record the furnace melter crown temperature at least once per hour. [District Rule 4354] Federally Enforceable Through Title V Permit
49. The furnace melter crown temperature shall be maintained at or above 1,800 degrees F. If the measured furnace temperature is less than 1,800 degrees F, the permittee shall conduct a certified VOC source test within 60 days to re-establish the minimum temperature limit. In lieu of conducting a certified VOC source test, the permittee may stipulate that a violation has occurred, subject to enforcement action. The permittee must then correct the violation (return the furnace temperature to or above the minimum temperature limit), 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] Federally Enforceable Through Title V Permit
50. The permittee shall keep records of the date and time of the furnace melter crown temperature readings and the furnace melter crown temperature measured during the most recent source test that demonstrated ongoing compliance with the VOC emission limit. [District Rule 4354] Federally Enforceable Through Title V Permit
51. The permittee shall operate and maintain the semi-dry scrubber system to reduce SO_x emissions by at least 85%, excluding days when the scrubber inlet's daily average concentration of SO₂ is 353 ppm_{dv} or less, in which case the scrubber outlet's daily average concentration of SO₂ shall be reduced to at least 53 ppm_{dv}, except during periods of scheduled or preventative maintenance. The averaging period for the reduction efficiency shall be calculated on a rolling 30-day average basis, excluding days when the scrubber inlet's daily average concentration of SO₂ is 353 ppm_{dv} or less. Compliance with the SO_x reduction efficiency and daily concentration standard shall be demonstrated by the combined ductwork scrubber inlet and downstream of the control equipment outlet SO₂ continuous concentration monitoring. [District Rule 1080] Federally Enforceable Through Title V Permit
52. This unit shall be fired on PUC regulated natural gas or LPG backup fuel only. [District Rule 2201] Federally Enforceable Through Title V Permit
53. Commercial arsenic shall not be used as a raw material in this glass furnace. This prohibition is required for continued exemption from the requirements of 40 CFR 61, Subpart N. [District Rule 2520] Federally Enforceable Through Title V Permit
54. Idling is defined as the operation of the furnace at less than 25% of the permitted production capacity or fuel use capacity as stated on the Permit to Operate. [District Rule 4354] Federally Enforceable Through Title V Permit
55. The emission control system shall be in operation whenever technologically feasible during idling to minimize emissions. Emissions of NO_x, CO, VOC, SO_x, and PM₁₀ during idling shall not exceed the amount as calculated pursuant to section 5.7.2 of rule 4354. Notifications shall be performed and records kept in accordance with section 6.7 of rule 4354. [District Rule 4354] Federally Enforceable Through Title V Permit
56. Transition shall mean a period of no more than 24 hours in duration when the operation of the oxy-fuel furnace is at less than 50% but more than 25% of the permitted production capacity. [District Rule 1080] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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57. Start-up shall mean the period of time, after initial construction, a furnace rebuild, or a shutdown, during which the glass melting furnace is heated to operating temperature by the primary furnace combustion systems, and systems and instrumentation are brought to stabilization and calibrated. The operator shall submit a request for a start-up exemption to the APCO, ARB, and EPA in conjunction with or in advance of an application for Authority to Construct (ATC) associated with a furnace rebuild. The emission control system shall be in operation as soon as technologically feasible during start-up to minimize emissions and notifications shall be performed and records kept in accordance with section 6.7 of rule 4354. [District Rule 4354] Federally Enforceable Through Title V Permit
58. Shutdown shall mean the period of time during which the glass melting furnace is purposely allowed to cool from its operating temperature and molten glass is removed from the tank for the purpose of a furnace rebuild or reconstruction, or during a natural gas curtailment, or, subject to EPA's approval, when it is commercially necessary. [District Rule 4354] Federally Enforceable Through Title V Permit
59. The duration of shutdown, as measured from the time the furnace operations drop below the idle threshold specified in section 3.17 of rule 4354 to when all emissions from the furnace cease, shall not exceed 20 days. The emission control system shall be in operation whenever technologically feasible during shutdown to minimize emissions. Notifications shall be performed and records kept in accordance with section 6.7 of rule 4354. [District Rule 4354] Federally Enforceable Through Title V Permit
60. Compliance testing for particulate shall be conducted at the outlet of the combined furnace #1 and furnace #2 ductwork in accordance with USEPA Reference Methods 1, 2, 5, and 202 as set forth in 40 CFR Part 60, Appendix A. Each test shall consist of three runs. The sampling time and volume for each run shall be at least 60 minutes and 31.8 dry standard cubic feet. Thereafter, compliance testing of particulate matter shall be conducted on an annual basis within 60 days of the anniversary date of the latest compliance testing. [District Rule 1080] Federally Enforceable Through Title V Permit
61. Source testing to measure NO_x, CO, and VOC emissions shall be conducted once every calendar year, but no more than every 18 months and not sooner than every 6 months. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
62. Source testing to measure SO_x and PM₁₀ emissions shall be conducted at the outlet of the combined furnace #1 and furnace #2 ductwork once every calendar year, but no more than every 18 months and not sooner than every 6 months. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
63. Source testing shall be conducted using the following test methods: NO_x (heat input basis) - USEPA Method 19, NO_x (ppmv) - USEPA Method 7E or CARB Method 100; CO (ppmv) - USEPA Method 10 or CARB Method 100; VOC (ppmv) - USEPA Method 25A, expressed in terms of carbon; Stack gas oxygen, carbon dioxide, excess air and dry molecular weight - USEPA Method 3 or 3A, or CARB Method 100; Stack gas velocity and volumetric flow rate - USEPA Method 2; SO_x - USEPA Method 6C or 8 or CARB Method 100; PM₁₀ - EPA methods 201 and 202, or EPA methods 201A and 202, or CARB method 501 in conjunction with CARB method 5. In lieu of performing a source test for PM₁₀, the results of CARB Method 5 or EPA Methods 5 and 8 may be used for compliance with the PM₁₀ emissions limit. If this option is used, then all of the particulate emissions will be considered to be PM₁₀. [District Rules 1081, 2520, and 4354] Federally Enforceable Through Title V Permit
64. Source test results shall be representative of operations equal to or greater than 60% of the permitted production capacity or fuel use capacity. [District Rule 4354] Federally Enforceable Through Title V Permit
65. For operators using alternative monitoring systems, during the source test, the operator shall monitor and record, at a minimum, all operating data for each parameter, fresh feed rate, and flue gas flow rate and submit this data with the test report. [District Rule 4354] Federally Enforceable Through Title V Permit
66. 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] Federally Enforceable Through Title V Permit
67. 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] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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68. 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] Federally Enforceable Through Title V Permit
69. Certification of the continuous opacity monitoring system (COMS) shall be demonstrated by meeting the requirements of 40 CFR Part 60.13 and 40 CFR Part 60, Appendix B, Performance Specification 1. [District Rule 1080] Federally Enforceable Through Title V Permit
70. Operators shall maintain daily records of the following items: total hours of operation, the quantity of glass pulled from each furnace, NOx emission rate in lb/ton glass pulled, CO emission rate, VOC emission rate, SOx emission rate in lb/ton glass pulled, PM10 emission rate in lb/ton glass pulled, source tests and source test results; maintenance and repair; malfunction, idling, start-up, and shutdown. For pollutants monitored using an approved parametric monitoring arrangement, operators shall maintain records of the acceptable range for each approved key system operating parameter, as established during source test, and shall record the operating values of the key system operating parameters at the approved recording frequency. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
71. Aggregated emissions for a given pollutant of a furnace battery are the emissions for the pollutant as measured at the common stack divided by the sum of the daily glass pulled from each furnace. [District Rule 4354] Federally Enforceable Through Title V Permit
72. An operator of either furnace battery or multiple furnaces that elects to meet the emission limits for the furnaces through the requirements of Section 9.7 shall be subject to a 10% air quality benefit in accordance with 40 CFR Part 51 Subpart U. The maximum emission rate shall be at least 10% lower than the applicable limit specified in Section 5.1 (Tier 3 NOx), Section 5.2 (CO and VOC), Section 5.3 (SOx), or Section 5.4 (PM10), for each pollutant subject to this option. [District Rule 4354] Federally Enforceable Through Title V Permit
73. The operator of a furnace battery or multiple furnaces choosing the alternate emission limit shall operate the furnace battery or multiple furnaces according to Sections 9.7.3 through 9.7.8.5. Only those pollutants with emissions that are averaged across multiple furnaces/furnace battery are subject to all subparts of Section 9.7. Pollutant emissions that are not averaged across multiple furnaces/furnace battery are subject to the applicable emission limits of Sections 5.1 through 5.4. [District Rule 4354] Federally Enforceable Through Title V Permit
74. The daily aggregate emissions shall be no greater than those obtained by controlling each furnace to comply individually with applicable emission limits, less the 10% air quality benefit. [District Rule 4354] Federally Enforceable Through Title V Permit
75. The operator shall demonstrate compliance with the daily aggregate emissions through source test results and monitoring by either CEMS or approved alternate emission monitoring methods. [District Rule 4354] Federally Enforceable Through Title V Permit
76. Any violation of the aggregated emission limits shall constitute a violation of the rule for each furnace for the entire averaging period. [District Rule 4354] Federally Enforceable Through Title V Permit
77. The operator shall notify the APCO of any violation of Rule 4354 Section 9.7.3 within 24 hours. The notification shall include: name and location of the facility; identification of furnace(s) causing the violation; the cause and the expected duration of violation; calculation of actual NOx, CO, VOC, SOx, and PM10 emissions during the violation; corrective actions and schedules to complete the work. [District Rule 4354] Federally Enforceable Through Title V Permit
78. The permittee shall retain records for a period of five years; make the records available on site during normal business hours to the APCO, ARB, or EPA; and submit the records to the APCO, ARB, or EPA upon request. [District Rules 1070, 2201 and 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.

79. The permittee shall maintain the following information recorded in a permanent form, which may include electronic files, suitable for inspection: A file of all continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR Part 60, Appendices A, B, and F; Operating logs that contain the following data on a daily basis: hours of operation, glass pull rate (in tons of glass pulled), type and quantity of fuel used, NO_x emissions (in pounds of NO_x per ton of glass pulled, calculated on a block 24-hour average), percent cullet used, electric boost used (in kilowatt-hours), oxygen quantity, and oxygen content of the combustion oxidant for the oxy-fuel furnace. The logs shall indicate periods of idling, transition, start-up, and shutdown, as well as any periods of maintenance, repair, or malfunction that affect the levels of emissions. This information, including all electronic files, shall be recorded and maintained until this oxy-fuel furnace is rebuilt, reconstructed, or ceases operation. [District Rule 1080] Federally Enforceable Through Title V Permit
80. During idling and transition periods the permittee shall maintain a log that includes the following data on a daily basis: hours in idling or transition, glass pull rate (in tons of glass pulled), and pounds of NO_x emitted (calculated as a block 24-hour period). [District Rule 1080] Federally Enforceable Through Title V Permit
81. Within 30 days after the end of each calendar-year quarter (i.e., by April 30, July 30, October 30, and January 30), the permittee shall submit to USEPA and the District a "Quarterly Excess Emissions, CERMS, CEMS, and COMS Report" that conforms to the format set forth in 30 CFR Part 60.7(c) and includes the following: The magnitude of excess emissions, computed in accordance with 40 CFR Part 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions; Specific identification of each period of excess emissions that occur during idling, start-ups, shutdowns, and malfunctions, together with the nature and cause of any malfunction (if known) and the corrective action taken or preventative measure adopted; The date and time identifying each period during which the continuous monitoring system was inoperative (except zero and span checks) and the nature of the system repairs or adjustments; and When no excess emissions have occurred or the continuous monitoring system has not been inoperative, repaired, or adjusted, such information shall be stated in the report. [District Rule 1080] Federally Enforceable Through Title V Permit
82. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 (as amended December 17, 1992), District Rule 4202 (as amended December 17, 1992), District Rule 4354 (as amended September 16, 2010), and District Rule 4801 (as amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
83. The requirements of District Rule 4301 (as amended December 17, 1992) were determined to not apply to this unit. A permit shield is granted from this requirement. [District Rule 2520] Federally Enforceable Through Title V Permit
84. The requirements of 40 CFR 61, Subpart N were determined to not apply to this unit. A permit shield is granted from this requirement. [District Rule 2520] Federally Enforceable Through Title V Permit
85. The permittee shall comply with the applicable emission limits specified in 40 CFR Part 63 Subpart SSSSSS Table 1. Existing glass melting furnace that produces glass at an annual rate of at least 45 Mg/yr (50 tpy) and is charged with compounds of arsenic, cadmium, chromium, manganese, lead, or nickel as raw materials shall meet one of the following emission limits: the 3-hour block average production based PM mass emission rate must not exceed 0.1 gram per kilogram (g/kg) (0.2 pound per ton (lb/ton)) of glass produced; or the 3-hour block average production based metal HAP mass emission rate must not exceed 0.01 g/kg (0.02 lb/ton) of glass produced. The permittee may request the APCO to grant an extension allowing up to one additional year to comply with the applicable emission limits if such additional period is necessary for the installation of emission controls. [40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
86. A furnace that produces glass at an annual rate of at least 45 Mg/yr (50 tpy) and is not charged with glass manufacturing metal HAP, and begins production of a glass product that includes one or more glass manufacturing metal HAP as raw materials, and produces at least 45 Mg/yr (50 tpy) of this glass product, shall comply with the applicable emission limit specified in Section 63.11451 within 2 years of the date on which the facility introduced production of the glass product that contains glass manufacturing metal HAP. [40 CFR 63 Subpart SSSSSS] 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.

87. For each monitoring system required by this subpart, the permittee shall install, calibrate, operate, and maintain the monitoring system according to the manufacturer's specifications and the requirements specified in Section 63.11454 paragraphs (a)(1) through (7). [40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
88. For each existing furnace that is subject to the emission limit specified in Table 1 to this subpart and is controlled with an ESP, the permittee shall meet the requirements specified in Section 63.11454 paragraphs (b)(1) or (2). The permittee shall monitor the secondary voltage and secondary electrical current to each field of the ESP according to the requirements of Section 63.11454 paragraph (a) or submit a request for alternative monitoring, as described in Section 63.11454 paragraph (g). [40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
89. The permittee shall be in compliance with the applicable emission limits in this subpart at all times, except during periods of startup, shutdown, and malfunction. [40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
90. The permittee shall always operate and maintain the affected source, including air pollution control and monitoring equipment, according to the provisions in Section 63.6(e)(1)(i). [40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
91. For each affected furnace that is subject to the emission limit specified in Table 1 to this subpart, the permittee shall monitor the performance of the furnace emission control device under the conditions specified in Section 63.11454(a)(7) and according to the requirements in Sections 63.6(e)(1) and 63.8(c) and Section 63.11455 paragraphs (c)(1) through (6). [40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
92. The permittee shall perform periodic inspections and maintenance of each affected furnace control device according to the requirements in Section 63.11455 paragraphs (d)(1) through (4). For each ESP, the permittee shall conduct inspections according to the requirements in Section 63.11455 paragraphs (d)(2)(i) through (iii). The permittee shall conduct visual inspections of the system ductwork, housing unit, and hopper for leaks at least every 12 months. The permittee shall conduct inspections of the interior of the ESP to determine the condition and integrity of corona wires, collection plates, plate rappers, hopper, and air diffuser plates every 24 months. If an initial inspection is not required, as specified in Section 63.11453(b)(3)(ii), the first inspection must not be more than 24 months from the last inspection. The permittee shall record the results of each periodic inspection specified in this section in a logbook (written or electronic format), as specified in Section 63.11457(c). If the results of a required inspection indicate a problem with the operation of the emission control system, the permittee shall take immediate corrective action to return the control device to normal operation according to the equipment manufacturer's specifications or instructions. [40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
93. For each affected furnace that is subject to the emission limit specified in Table 1 to this subpart and can meet the applicable emission limit without the use of a control device, the permittee shall demonstrate continuous compliance by satisfying the applicable recordkeeping requirements specified in Section 63.11457. [40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
94. The permittee shall keep the records specified in Section 63.11457 paragraphs (a)(1) through (8). [40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
95. Records must be in a form suitable and readily available for expeditious review, according to Section 63.10(b)(1). The permittee shall record the results of each inspection and maintenance action in a logbook (written or electronic format). The permittee shall keep the logbook onsite and make the logbook available to the permitting authority upon request. As specified in §63.10(b)(1), the permittee shall keep each record for a minimum of 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-3-14

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

RAW MATERIAL HANDLING INCLUDING UNLOADING, BATCH WEIGHING AND MIXING, AND MIXED BATCH STORAGE SERVED BY DONALDSON MBT 81-10, DONALDSON TORIT DOWNFLO MODEL #DFO 2-16, DONALDSON TORIT MODEL #100 PJD-8, TWO DCE DALAMATIC DU-10H-FS DUST COLLECTORS, AND FIVE MAC PROCESS 39AVCS STYLE II BIN VENT DUST COLLECTORS

PERMIT UNIT REQUIREMENTS

1. Visible emissions from each baghouse shall not exceed 5% opacity for a period of periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Material removed from each dust collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 4102]
3. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
5. Each baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The cleaning frequency and duration for each baghouse shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Replacement bags numbering at least 10% of the total number of bags in each baghouse shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Each baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201 and 40 CFR 64] Federally Enforceable Through Title V Permit
9. The baghouses shall operate at all times with a minimum differential pressure of 1 inches water column and a maximum differential pressure of 6 inches water column. [District Rule 2201 and 40 CFR 64] Federally Enforceable Through Title V Permit
10. Controlled PM10 emissions from the dust collectors shall not exceed 0.0001 gr/scf. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Controlled PM10 emissions from the Donaldson Torit Downflo (DFO 2-16) and Donaldson Torit (100 PJD-8) dust collectors shall not exceed 0.001 gr/scf. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Differential operating pressure for each baghouse shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Records of all maintenance of each baghouse, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. Records of daily production of mixed batch material shall be maintained and made available for District inspection upon request. [District Rules 1070 and 2520] Federally Enforceable Through Title V Permit
15. Particulate matter emissions from each source operation shall not exceed the maximum allowable emission rate (lb/hr), as determined using the following formula: $E = 3.59 \times P^{0.62}$, where E equals the maximum allowable emission rate (lb/hr) and P equals the process weight rate (tons/hr) and is less than or equal to 30 tons/hr. [District Rule 4202] Federally Enforceable Through Title V Permit
16. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rules 4201 (as amended December 17, 1992) and 4202 (as amended December 17, 1992); and Madera County Rule 402. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
17. Dust collector filters for each baghouse shall be inspected weekly while in operation for evidence of particulate matter breakthrough and replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
18. Dust collector filters for each baghouse shall be inspected monthly while not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
19. Records of dust collector maintenance, inspections, and repair for each baghouse shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520 and 40 CFR 64] Federally Enforceable Through Title V Permit
20. Visible emissions from each baghouse shall be inspected monthly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520] Federally Enforceable Through Title V Permit
21. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rules 1070 and 2520] Federally Enforceable Through Title V Permit
22. During each day of operation, the permittee shall record the pressure drop of the baghouse, and compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR 64] Federally Enforceable Through Title V Permit
23. Visible emissions from the baghouse shall be evaluated using EPA Method 22 for a period of at least 6 minutes at least once during each day that the baghouse is operated. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions as expeditiously as possible. Corrective action shall include the following: inspecting the baghouse for any tears, abrasions, or holes in the filters; inspecting the baghouse for damage; and repairing or replacing any defective or damaged material. [40 CFR 64] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-4-6

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

47 HP MOLD REPAIR SHOP DEPARTMENT INCLUDING NINE GRINDERS, TWO LATHES, AND SPRAY WELDER SERVED BY TORIT MODEL PIC-1080-6 55 BAGHOUSE DUST COLLECTOR WITH PULSE JET CLEANING.

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 4102]
3. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
4. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rules 4201 (as amended December 17, 1992) and 4202 (as amended December 17, 1992); and Madera County Rule 402. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
5. Dust collector filters shall be inspected weekly while in operation for evidence of particulate matter breakthrough and replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
6. Dust collector filters shall be inspected monthly while not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
7. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-5-13

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

TEN 544,349 GALLON TOTAL CAPACITY RAW MATERIAL STORAGE BINS SERVED BY SIX DONALDSON TORIT (TD 486) AND TWO DONALDSON TORIT POWER CORE (CPC-3) DUST COLLECTORS, ONE BATCH WEIGH SCALE, ONE CULLET WEIGHT SCALE, AND ONE ENCLOSED CONVEYOR ALL SERVED BY A DONALDSON TORIT MODEL #TD-486 PULSE JET CARTRIDGE BAGHOUSE, AND DONALDSON TORIT MODEL #16PJD6 BAGHOUSE SERVING SILO #3 (PELLETIZED ESP DUST)

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Visible emissions from each baghouse shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Each baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The baghouses cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Material removed from each baghouse shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Replacement bags numbering at least 10% of the total number of bags in each baghouse shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Each baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201 and 40 CFR 64] Federally Enforceable Through Title V Permit
9. The baghouses shall operate at all times with a minimum differential pressure of 1 inch water column and a maximum differential pressure of 6 inches water column. [District Rule 2201 and 40 CFR 64] Federally Enforceable Through Title V Permit
10. Differential operating pressure for each baghouse shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Records of all maintenance of each baghouse, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
12. PM10 emissions from the dust collectors shall not exceed 0.0001 gr/scf. [District Rule 2201] Federally Enforceable Through Title V Permit
13. PM10 emissions from the Torit pulse jet cartridge (16PJD6) and Torit bin vent filter (TD 486) dust collectors shall not exceed 0.001 gr/scf. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. Dust collector filters shall be inspected weekly while in operation for evidence of particulate matter breakthrough and replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
15. Dust collector filters shall be inspected monthly while not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
16. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520 and 40 CFR 64] Federally Enforceable Through Title V Permit
17. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Compliance with the conditions in the permit requirements for this unit shall be deemed compliant with District Rules 4201 (as amended December 17 1992) and 4202 (as amended December 17, 1992); and Madera County Rule 402. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
19. Particulate matter emissions from each source operation shall not exceed the maximum allowable emission rate (lb/hr) as determined using the following formula: $E = 3.59 * P^{0.62}$, where E equals the maximum allowable emission rate (lb/hr) and P equals the process weight rate (tons/hr) and is less than or equal to 30 tons/hr. [District Rule 4202] Federally Enforceable Through Title V Permit
20. Visible emissions from each baghouse shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520] Federally Enforceable Through Title V Permit
21. During each day of operation, the permittee shall record the pressure drop of the baghouse, and compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR 64] Federally Enforceable Through Title V Permit
22. Visible emissions from the baghouse shall be evaluated using EPA Method 22 for a period of at least 6 minutes at least once during each day that the baghouse is operated. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions as expeditiously as possible. Corrective action shall include the following: inspecting the baghouse for any tears, abrasions, or holes in the filters; inspecting the baghouse for damage; and repairing or replacing any defective or damaged material. [40 CFR 64] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-6-6

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

7.25 HP TORIT MODEL SDF-4 DUST COLLECTOR SERVING MINOR INGREDIENTS WEIGH SCALE, MIXER, AND MIXER DUMP HOOD

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 4102]
3. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
4. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rules 4201 (as amended December 17, 1992) and 4202 (as amended December 17, 1992); and Madera County Rule 402. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
5. Dust collector filters shall be inspected weekly while in operation for evidence of particulate matter breakthrough and replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
6. Dust collector filters shall be inspected monthly while not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
7. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit
8. Processing rate shall not exceed 2000 pounds per day. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Maintain records of daily processing weights. All records shall be retained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-7-6

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

375 BHP CATERPILLAR MODEL 3406-DI DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRIC GENERATOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements of SJVUAPCD Rule 4201; Rule 404 (Madera), 406 (Fresno), and 407 (Kings, Merced, San Joaquin, Tulare, Kern, and Stanislaus). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
3. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 402 (Madera) and 404 (Fresno, Merced, Kern, Kings, San Joaquin, Stanislaus, Tulare). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
4. This engine shall be equipped with a non-resettable hour meter with a minimum display capability of 9,999 hours, unless the District determines that a non-resettable hour meter with a different minimum display capability is appropriate in consideration of the historical use of the engine and the owner or operator's compliance history. [District Rule 4702 , 17 CCR 93115, and 40 CFR 63.6625(f)] Federally Enforceable Through Title V Permit
5. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4701, 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
6. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rule 2201, 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
8. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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11. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4701, 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
12. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year. [District Rules 4701, 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [17 CCR 93115]
14. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. The engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. The engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. The permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
20. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-11-12

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

MOLD SWABBING OPERATION INCLUDING FIVE PRODUCTION LINES WITH FIVE INDIVIDUAL SECTION (IS) FORMING MACHINES (THREE 10 INDIVIDUAL SECTION (IS) FORMING MACHINES FOR FURNACE #1 AND TWO INDIVIDUAL SECTION MACHINES, ONE WITH A 16 SECTION LINE AND ONE WITH A 20 SECTION LINE FOR FURNACE #2)

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed the maximum allowable emission rate (lb/hr), as determined using the following formula: $E = 17.31 \times P^{0.16}$, where E equals the maximum allowable emission rate (lb/hr) and P equals the process weight rate (tons/hr) and is greater than 30 tons/hr. [District Rule 4202] Federally Enforceable Through Title V Permit
4. The permittee shall use best management practices and minimize the use of mold swabbing material (less than or = to 0.211 lb of material per ton of glass pulled) with PM10 emissions of 0.19 lb/ton of glass pulled in order to minimize PM10 emissions from this unit. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Glass throughput for this mold swabbing operation shall not exceed 1,050 U.S. short tons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Glass throughput for this mold swabbing operation shall not exceed 370,380 U.S. short tons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Combined PM10 emissions from permits C-801-11 and '12 shall not exceed 65,348 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Certified personnel, pursuant to the specifications in section 3 (Qualifications and Testing) of EPA Method 9, shall inspect the roof vent stacks weekly for visible emissions, while this equipment is in operation. The inspection shall be performed, using a modified EPA Method 9, as described in the District Compliance policy, as revised 2/10/05, for Visible Emissions Evaluations. If the modified Method 9 procedure indicates exceedance of the facility-wide 20% opacity limit, the unmodified EPA Method 9 procedure, except for data reduction (section 2.5), shall be performed within 24 hours. [District Rule 2520] Federally Enforceable Through Title V Permit
9. The permittee shall maintain the following records with regards to visible emission inspections: 1) inspection test method, 2) date and time of inspection, 3) stack or emission point identification, 4) observed results and conclusions, 5) type of corrective action taken, if any to reduce visible emissions and 6) name of person(s) performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit
10. The permittee shall maintain records of the daily quantity of swabbing compound used in this mold swabbing operation. [District Rules 2201 and 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.

11. The permittee shall maintain records of the daily and annual container glass throughput for this mold swabbing operation and combined annual PM10 emissions from permits C-801-11 and '12. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
12. All records required to be maintained by this permit shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
13. District Rule 4201 (as amended December 17, 1992) has been determined not to be applicable to this permit unit. A permit shield is granted from this requirement. [District Rule 2520] Federally Enforceable Through Title V Permit
14. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 (as amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-12-10

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

HOT END BOTTLE COATING OPERATION INCLUDING FIVE COATING LINES (THREE FOR FURNACE #1 AND TWO FOR FURNACE #2) WITH FIVE COATING UNITS

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed the maximum allowable emission rate (lb/hr), as determined using the following formula: $E = 17.31 \times P^{0.16}$, where E equals the maximum allowable emission rate (lb/hr) and P equals the process weight rate (tons/hr) and is greater than 30 tons/hr. [District Rule 4202] Federally Enforceable Through Title V Permit
4. Emissions from this hot end bottle coating operation shall not exceed 0.024 lb-PM10/ton of glass pulled. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Glass throughput for this hot end bottle coating operation shall not exceed 1,050 U.S. short tons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Glass throughput for this hot end bottle coating operation shall not exceed 370,380 U.S. short tons per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Combined PM10 emissions from permits C-801-11 and '12 shall not exceed 65,348 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Records shall be maintained such that daily quantities of coating material consumption can be determined. Such records shall be retained and shall be made available for inspection by District staff upon request. [District Rule 2520] Federally Enforceable Through Title V Permit
9. Certified personnel, pursuant to the specifications in section 3 (Qualifications and Testing) of EPA Method 9, shall inspect the roof vent stacks weekly for visible emissions, while this equipment is in operation. The inspection shall be performed, using a modified EPA Method 9, as described in the District Compliance policy, as revised 2/17/98, for Visible Emissions Evaluations. If the modified Method 9 procedure indicates exceedance of the facility-wide 20% opacity limit, the unmodified EPA Method 9 procedure, except for data reduction (section 2.5), shall be performed within 24 hours. [District Rule 2520] Federally Enforceable Through Title V Permit
10. The permittee shall maintain the following records with regards to visible emission inspections: 1) inspection test method, 2) date and time of inspection, 3) stack or emission point identification, 4) observed results and conclusions, 5) type of corrective action taken, if any to reduce visible emissions and 6) name of person(s) performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit
11. The permittee shall maintain records of the daily and annual container glass throughput for this hot end bottle coating operation and combined annual PM10 emissions from permits C-801-11 and '12. [District Rules 2201 and 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.

12. All records required to be maintained by this permit shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
13. District Rule 4201 (as amended December 17, 1992) has been determined not to be applicable to this permit unit. A permit shield is granted from this requirement. [District Rule 2520] Federally Enforceable Through Title V Permit
14. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 (as amended December 17, 1992). A permit shield is granted from this requirement. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-17-3

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

CONFINED ABRASIVE BLASTING OPERATION WITH A 600 LB EMPIRE ABRASIVE EQUIPMENT CO MODEL PC-6060-RS BLASTING POT SERVED BY EM2-4 BAGHOUSE

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102] Federally Enforceable Through Title V Permit
2. The blasting operations shall be carried out in a manner to prevent any nuisances. [District Rule 4102]
3. All abrasive blasting shall be conducted in accordance with California Code of Regulations Title 17, Subchapter 6, Sections 92000 through 92540. [92000 through 92540 CCR]
4. A used certified abrasive shall not be considered certified for reuse unless the abrasive conforms to its original cut-point fineness. [92530 CCR]
5. Abrasive blasting operations conducted within the blasting cabinet shall not discharge air contaminants into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark or darker than Ringelmann 1 or equivalent to 20% opacity. [92200 CCR]

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-19-7

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

10 MMBTU/HR NATURAL GAS-FIRED DISTRIBUTOR FOR FURNACE #2

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Discharge of sulfur compounds shall not exceed in concentration at the point of discharge 0.2 percent by volume calculated as SO₂, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
3. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
4. This unit shall be fired on PUC regulated natural gas or LPG backup fuel only. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emissions from this distributor shall not exceed any of the following limits: 0.10 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 0.084 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this distributor operation. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
7. All records required to be maintained by this permit shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 (as amended December 17, 1992), District Rule 4202 (as amended December 17, 1992), and District Rule 4801 (as amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-20-5

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

7.0 MMBTU/HR NATURAL GAS-FIRED LEHR SHOP #21/#22 (FOR FURNACE #2)

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Discharge of sulfur compounds shall not exceed in concentration at the point of discharge 0.2 percent by volume calculated as SO₂, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
3. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
4. This unit shall be fired on PUC regulated natural gas or LPG backup fuel only. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emissions from this lehr shop shall not exceed any of the following limits: 60 ppmv NO_x @ 3% O₂ or 0.073 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 20 ppmv CO @ 3% O₂ or 0.015 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this lehr shop operation. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
7. All records required to be maintained by this permit shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 (as amended December 17, 1992), District Rule 4202 (as amended December 17, 1992), and District Rule 4801 (as amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-21-5

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

6.0 MMBTU/HR NATURAL GAS-FIRED LEHR SHOP #23 AND A 6.0 MMBTU/HR NATURAL GAS-FIRED LEHR SHOP #24 (FOR FURNACE #2)

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Discharge of sulfur compounds shall not exceed in concentration at the point of discharge 0.2 percent by volume calculated as SO₂, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
3. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
4. This unit shall be fired on PUC regulated natural gas or LPG backup fuel only. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emissions from this lehr shop shall not exceed any of the following limits: 60 ppmv NO_x @ 3% O₂ or 0.073 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 20 ppmv CO @ 3% O₂ or 0.015 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this lehr shop operation. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
7. All records required to be maintained by this permit shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 (as amended December 17, 1992), District Rule 4202 (as amended December 17, 1992), and District Rule 4801 (as amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-22-6

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

3.0 MMBTU/HR NATURAL GAS-FIRED GLASS FOREHEARTH (FOR FURNACE #2)

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Discharge of sulfur compounds shall not exceed in concentration at the point of discharge 0.2 percent by volume calculated as SO₂, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
3. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
4. This unit shall be fired on PUC regulated natural gas or LPG backup fuel only. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emissions from this forehearth shall not exceed any of the following limits: 0.10 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 0.084 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this forehearth operation. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
7. All records required to be maintained by this permit shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 (as amended December 17, 1992), District Rule 4202 (as amended December 17, 1992), and District Rule 4801 (as amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-23-6

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

3.0 MMBTU/HR NATURAL GAS-FIRED GLASS FOREHEARTH (FOR FURNACE #2)

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Discharge of sulfur compounds shall not exceed in concentration at the point of discharge 0.2 percent by volume calculated as SO₂, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
3. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
4. This unit shall be fired on PUC regulated natural gas or LPG backup fuel only. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emissions from this forehearth shall not exceed any of the following limits: 0.10 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 0.084 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this forehearth operation. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
7. All records required to be maintained by this permit shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 (as amended December 17, 1992), District Rule 4202 (as amended December 17, 1992), and District Rule 4801 (as amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-24-6

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

4.0 MMBTU/HR NATURAL GAS-FIRED GLASS FOREHEARTH (FOR FURNACE #2)

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Discharge of sulfur compounds shall not exceed in concentration at the point of discharge 0.2 percent by volume calculated as SO₂, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
3. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
4. This unit shall be fired on PUC regulated natural gas or LPG backup fuel only. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emissions from this forehearth shall not exceed any of the following limits: 0.10 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 0.084 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this forehearth operation. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
7. All records required to be maintained by this permit shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 (as amended December 17, 1992), District Rule 4202 (as amended December 17, 1992), and District Rule 4801 (as amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-25-7

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

3.0 MMBTU/HR NATURAL GAS-FIRED GLASS FOREHEARTH #24 (FOR FURNACE #2)

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Discharge of sulfur compounds shall not exceed in concentration at the point of discharge 0.2 percent by volume calculated as SO₂, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
3. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
4. This unit shall be fired on PUC regulated natural gas or LPG backup fuel only. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emissions from this forehearth shall not exceed any of the following limits: 0.10 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 0.084 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this forehearth operation. [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
7. All records required to be maintained by this permit shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 (as amended December 17, 1992), District Rule 4202 (as amended December 17, 1992), and District Rule 4801 (as amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-26-5

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

9.9 MMBTU/HR NATURAL GAS-FIRED DISTRIBUTOR FOR FURNACE #1

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Discharge of sulfur compounds shall not exceed in concentration at the point of discharge 0.2 percent by volume calculated as SO₂, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
3. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
4. This unit shall be fired on PUC regulated natural gas or LPG backup fuel only. [District Rule 4301] Federally Enforceable Through Title V Permit
5. Emissions from this distributor shall not exceed any of the following limits: 0.10 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 0.084 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rule 4301] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this distributor operation. [District Rule 2520] Federally Enforceable Through Title V Permit
7. All records required to be maintained by this permit shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2520] Federally Enforceable Through Title V Permit
8. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 (as amended December 17, 1992), District Rule 4202 (as amended December 17, 1992), and District Rule 4801 (as amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-27-5

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

4.3 MMBTU/HR NATURAL GAS-FIRED GLASS FOREHEARTH #11 FOR FURNACE #1

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Discharge of sulfur compounds shall not exceed in concentration at the point of discharge 0.2 percent by volume calculated as SO₂, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
3. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
4. This unit shall be fired on PUC regulated natural gas or LPG backup fuel only. [District Rule 4301] Federally Enforceable Through Title V Permit
5. Emissions from this forehearth shall not exceed any of the following limits: 0.10 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 0.084 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rule 4301] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this forehearth operation. [District Rule 2520] Federally Enforceable Through Title V Permit
7. All records required to be maintained by this permit shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2520] Federally Enforceable Through Title V Permit
8. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 (as amended December 17, 1992), District Rule 4202 (as amended December 17, 1992), and District Rule 4801 (as amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-28-5

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

2.7 MMBTU/HR NATURAL GAS-FIRED GLASS FOREHEARTH #12 FOR FURNACE #1

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Discharge of sulfur compounds shall not exceed in concentration at the point of discharge 0.2 percent by volume calculated as SO₂, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
3. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
4. This unit shall be fired on PUC regulated natural gas or LPG backup fuel only. [District Rule 4301] Federally Enforceable Through Title V Permit
5. Emissions from this forehearth shall not exceed any of the following limits: 0.10 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 0.084 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rule 4301] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this forehearth operation. [District Rule 2520] Federally Enforceable Through Title V Permit
7. All records required to be maintained by this permit shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2520] Federally Enforceable Through Title V Permit
8. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 (as amended December 17, 1992), District Rule 4202 (as amended December 17, 1992), and District Rule 4801 (as amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-29-5

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

4.3 MMBTU/HR NATURAL GAS-FIRED GLASS FOREHEARTH #13 FOR FURNACE #1

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Discharge of sulfur compounds shall not exceed in concentration at the point of discharge 0.2 percent by volume calculated as SO₂, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
3. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
4. This unit shall be fired on PUC regulated natural gas or LPG backup fuel only. [District Rule 4301] Federally Enforceable Through Title V Permit
5. Emissions from this forehearth shall not exceed any of the following limits: 0.10 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 0.084 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rule 4301] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this forehearth operation. [District Rule 2520] Federally Enforceable Through Title V Permit
7. All records required to be maintained by this permit shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2520] Federally Enforceable Through Title V Permit
8. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 (as amended December 17, 1992), District Rule 4202 (as amended December 17, 1992), and District Rule 4801 (as amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-30-4

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

5.0 MMBTU/HR NATURAL GAS-FIRED LEHR SHOP #11 FOR FURNACE #1

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Discharge of sulfur compounds shall not exceed in concentration at the point of discharge 0.2 percent by volume calculated as SO₂, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
3. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
4. This unit shall be fired on PUC regulated natural gas or LPG backup fuel only. [District Rule 4301] Federally Enforceable Through Title V Permit
5. Emissions from this lehr shop shall not exceed any of the following limits: 0.073 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 0.015 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rule 4301] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this lehr operation. [District Rule 2520] Federally Enforceable Through Title V Permit
7. All records required to be maintained by this permit shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2520] Federally Enforceable Through Title V Permit
8. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 (as amended December 17, 1992), District Rule 4202 (as amended December 17, 1992), and District Rule 4801 (as amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-31-4

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

5.0 MMBTU/HR NATURAL GAS-FIRED LEHR SHOP #12 FOR FURNACE #1

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Discharge of sulfur compounds shall not exceed in concentration at the point of discharge 0.2 percent by volume calculated as SO₂, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
3. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
4. This unit shall be fired on PUC regulated natural gas or LPG backup fuel only. [District Rule 4301] Federally Enforceable Through Title V Permit
5. Emissions from this lehr shop shall not exceed any of the following limits: 0.073 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 0.015 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rule 4301] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this lehr operation. [District Rule 2520] Federally Enforceable Through Title V Permit
7. All records required to be maintained by this permit shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2520] Federally Enforceable Through Title V Permit
8. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 (as amended December 17, 1992), District Rule 4202 (as amended December 17, 1992), and District Rule 4801 (as amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-32-6

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

5.0 MMBTU/HR NATURAL GAS-FIRED LEHR SHOP #13 FOR FURNACE #1

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Discharge of sulfur compounds shall not exceed in concentration at the point of discharge 0.2 percent by volume calculated as SO₂, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
3. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
4. This unit shall be fired on PUC regulated natural gas or LPG backup fuel only. [District Rule 4301] Federally Enforceable Through Title V Permit
5. Emissions from this lehr shop shall not exceed any of the following limits: 0.073 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 0.015 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rule 4301] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this lehr operation. [District Rule 2520] Federally Enforceable Through Title V Permit
7. All records required to be maintained by this permit shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2520] Federally Enforceable Through Title V Permit
8. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 (as amended December 17, 1992), District Rule 4202 (as amended December 17, 1992), and District Rule 4801 (as amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-33-3

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

3.6 MMBTU/HR NATURAL GAS-FIRED FIRE POLISHING OPERATION #11 FOR FURNACE #1

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Discharge of sulfur compounds shall not exceed in concentration at the point of discharge 0.2 percent by volume calculated as SO₂, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
3. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
4. This unit shall be fired on PUC regulated natural gas or LPG backup fuel only. [District Rule 4301] Federally Enforceable Through Title V Permit
5. Emissions from this fire polishing operation shall not exceed any of the following limits: 0.10 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 0.084 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rule 4301] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this fire polishing operation. [District Rule 2520] Federally Enforceable Through Title V Permit
7. All records required to be maintained by this permit shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2520] Federally Enforceable Through Title V Permit
8. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 (as amended December 17, 1992), District Rule 4202 (as amended December 17, 1992), and District Rule 4801 (as amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-34-3

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

3.6 MMBTU/HR NATURAL GAS-FIRED FIRE POLISHING OPERATION #12 FOR FURNACE #1

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Discharge of sulfur compounds shall not exceed in concentration at the point of discharge 0.2 percent by volume calculated as SO₂, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
3. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
4. This unit shall be fired on PUC regulated natural gas or LPG backup fuel only. [District Rule 4301] Federally Enforceable Through Title V Permit
5. Emissions from this fire polishing operation shall not exceed any of the following limits: 0.10 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 0.084 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rule 4301] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this fire polishing operation. [District Rule 2520] Federally Enforceable Through Title V Permit
7. All records required to be maintained by this permit shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2520] Federally Enforceable Through Title V Permit
8. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 (as amended December 17, 1992), District Rule 4202 (as amended December 17, 1992), and District Rule 4801 (as amended December 17, 1992). A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-37-4

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

RAW MATERIALS HANDLING OPERATION WITH ELEVATOR AND TWO 2,880 GALLON (385 CU FT) BATCH STORAGE BINS SERVED BY A TORIT DONALDSON MODEL #TD-486 PULSE JET CARTRIDGE BAGHOUSE AND ENCLOSED WETTING SCREW CONVEYOR TO FURNACE #2 (AMENDED 8/11/17)

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
7. A spare set of bags shall be maintained on the premises at all times. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201 and 40 CFR 64] Federally Enforceable Through Title V Permit
9. The baghouse shall operate at all times with a minimum differential pressure of 1 inch water column and a maximum differential pressure of 6 inches water column. [District Rule 2201 and 40 CFR 64] Federally Enforceable Through Title V Permit
10. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Records of all maintenance of the baghouse, including all change outs of filter media, shall be maintained. [District Rule 2201 and 40 CFR 64] Federally Enforceable Through Title V Permit
12. Maximum glass pull-rate shall not exceed 600 U.S. short tons per day or 212,700 U.S. short tons per year for furnace #2. [District Rule 2201] Federally Enforceable Through Title V Permit
13. PM10 emissions from the baghouse shall not exceed 0.02 lb/ton of glass pulled from furnace #2. [District Rule 2201] Federally Enforceable Through Title V Permit
14. The permittee shall maintain daily records of the quantity of glass pulled from furnace #2. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

15. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Particulate matter emissions from each source operation shall not exceed the maximum allowable emission rate (lb/hr), as determined using the following formula: $E = 3.59 \times P^{0.62}$, where E equals the maximum allowable emission rate (lb/hr) and P equals the process weight rate (tons/hr) and is less than or equal to 30 tons/hr. [District Rule 4202] Federally Enforceable Through Title V Permit
17. Visible emissions from each baghouse shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520] Federally Enforceable Through Title V Permit
18. During each day of operation, the permittee shall record the pressure drop of the baghouse, and compare the readings with the acceptable range. Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR 64] Federally Enforceable Through Title V Permit
19. Visible emissions from the baghouse shall be evaluated using EPA Method 22 for a period of at least 6 minutes at least once during each day that the baghouse is operated. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions as expeditiously as possible. Corrective action shall include the following: inspecting the baghouse for any tears, abrasions, or holes in the filters; inspecting the baghouse for damage; and repairing or replacing any defective or damaged material. [40 CFR 64] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-38-4

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

240 BHP JOHN DEERE MODEL PE6068HF120 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE
POWERING A FIREWATER PUMP

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall be equipped with a non-resettable hour meter with a minimum display capability of 9,999 hours, unless the District determines that a non-resettable hour meter with a different minimum display capability is appropriate in consideration of the historical use of the engine and the owner or operator's compliance history. [District Rule 4702, 17 CCR 93115, and 40 CFR 63.6625(f)] Federally Enforceable Through Title V Permit
3. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap (flapper ok), roof overhang, or any other obstruction. [District Rule 4102]
4. This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations. For testing purposes, the engine shall only be operated the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems", 1998 edition. Total hours of operation for all maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year. [District Rules 4701, 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
5. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201, 4801, and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed any of the following limits: 4.74 g-NOx/bhp-hr, 0.59 g-CO/bhp-hr, or 0.16 g-VOC/bhp-hr. [District Rule 2201, and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. Emissions from this IC engine shall not exceed 0.14 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure [District Rules 2201, 4102 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, and the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.). For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4701, 4702, and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4701, 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
10. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [17 CCR 93115]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

11. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. The engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. The engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
15. The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. The permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-39-7

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

11,220 GALLON (1,500 CU FT) SODA ASH STORAGE SILO CONTROLLED WITH A MCGILL AIR CLEAN MODEL #72AVS25 PULSE JET CARTRIDGE BAGHOUSE AND ENCLOSED SCREW CONVEYOR SUPPLYING SEMI-DRY SCRUBBER (LISTED ON PERMIT C-801-1) FOR FURNACES #1 AND #2

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Replacement bags numbering at least 10% of the total number of bags in the baghouse shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The baghouse shall operate at all times with a minimum differential pressure of 1 inches water column and a maximum differential pressure of 6 inches water column. [District Rule 2201] Federally Enforceable Through Title V Permit
10. PM10 emissions from the baghouse shall not exceed 0.0625 lb/ton soda ash loaded. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Soda ash loaded shall not exceed 3.2 tons/day, on an annual average basis. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The duration of the silo truck loading shall not exceed 2 hour in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
13. The duration of the silo truck loading shall not exceed 90 hours in any one year. [District Rule 2201] Federally Enforceable Through Title V Permit
14. Baghouse air flow rate shall not exceed 1400 scfm. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Differential operating pressure and air flow rate shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

16. Records of all maintenance of the baghouse, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
17. The permittee shall maintain records of the soda ash throughput and hours of silo truck loading. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-41-3

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

1,490 BHP CUMMINS MODEL #QST30-G5 NR2 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. This engine shall be equipped with a non-resettable hour meter with a minimum display capability of 9,999 hours, unless the District determines that a non-resettable hour meter with a different minimum display capability is appropriate in consideration of the historical use of the engine and the owner or operator's compliance history. [District Rule 4702; 17 CCR 93115; and 40 CFR 63.6625(f)] Federally Enforceable Through Title V Permit
3. The exhaust stack shall vent vertically upward. The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction. [District Rule 4102]
4. Only CARB certified diesel fuel containing not more than 0.0015% sulfur by weight is to be used. [District Rules 2201 and 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. Emissions from this IC engine shall not exceed any of the following limits: 4.42 g-NOx/bhp-hr, 0.51 g-CO/bhp-hr, or 0.099 g-VOC/bhp-hr. [District Rule 2201, and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. Emissions from this IC engine shall not exceed 0.15 g-PM10/bhp-hr based on USEPA certification using ISO 8178 test procedure. [District Rules 2201, 4102 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702] Federally Enforceable Through Title V Permit
8. During periods of operation for maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emission control system supplier (for example: check engine fluid levels, battery, cables and connections; change engine oil and filters; replace engine coolant; and/or other operational characteristics as recommended by the manufacturer or supplier). [District Rule 4702] Federally Enforceable Through Title V Permit
9. This engine shall be operated only for testing and maintenance of the engine, required regulatory purposes, and during emergency situations. Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year. [District Rules 4701, 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
10. An emergency situation is: 1) An unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the operator, or 2) The supplying of power while maintenance or repairs are made to the primary power supply. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The permittee shall maintain monthly records of emergency and non-emergency operation. Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example: load testing, weekly testing, rolling blackout, general area power outage, etc.) and records of operational characteristics monitoring. For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule. [District Rules 4701, 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 4701, 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
14. The permittee shall maintain monthly records of the type of fuel purchased, the amount of fuel purchased, date when the fuel was purchased, signature of the permittee who received the fuel, and signature of the fuel supplier indicating that the fuel was delivered. [17 CCR 93115]
15. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
16. The engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
17. The engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
18. The engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
19. The engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
20. The permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment. The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
21. The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d of Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-42-4

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

CONFINED ABRASIVE BLASTING OPERATION WITH A 312.14 LB CLEMCO INDUSTRIES CORPORATION MODEL PULSAR IX-P BLASTING POT SERVED BY AN INTEGRAL DUAL CARTRIDGE REVERSE PULSE DUST COLLECTOR

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. The blasting operations shall be carried out in a manner to prevent any nuisances. [District Rule 4102]
3. All abrasive blasting shall be conducted in accordance with California Code of Regulations Title 17, Subchapter 6, Sections 92000 through 92540. [92000 through 92540 CCR]
4. A used certified abrasive shall not be considered certified for reuse unless the abrasive conforms to its original cut-point fineness. [92530 CCR]
5. Abrasive blasting operations conducted within the blasting cabinet shall not discharge air contaminants into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark or darker than Ringelmann 1 or equivalent to 20% opacity. [92200 CCR]

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-43-8

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

NORTH SIDE CONVEYOR ACCEPTING TRANSFER OF BATCH AND CULLET TO FURNACE #1 AND CULLET WEIGHING CONVEYOR SERVED BY MAC PROCESS MODEL 120LST81 DUST COLLECTOR

PERMIT UNIT REQUIREMENTS

1. Visible emissions from baghouse shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. Particulate matter emissions from each source operation shall not exceed the maximum allowable emission rate (lb/hr), as determined using the following formula: $E = 3.59 \times P^{0.62}$, where E equals the maximum allowable emission rate (lb/hr) and P equals the process weight (tons/hr) and is less than or equal to 30 tons/hr. [District Rule 4202] Federally Enforceable Through Title V Permit
4. Controlled PM10 emissions from the dust collector shall not exceed 0.0001 gr/scf. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The baghouse shall operate at all times with a minimum differential pressure of 0.5 inches water column and a maximum differential pressure of 5 inches water column. [District Rule 2201] Federally Enforceable Through Title V Permit
7. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
8. The baghouse shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Replacement bags numbering at least 10% of the total number of bags in the baghouse shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit
12. Visible emissions from each baghouse shall be inspected monthly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted [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.

13. Dust collector filters for each baghouse shall be inspected weekly while in operation for evidence of particulate matter breakthrough and replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
14. Dust collector filters for each baghouse shall be inspected monthly while not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
15. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records of dust collector maintenance, inspections, and repair for each baghouse shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit
17. Records of all maintenance of the baghouse, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rules 4201 (as amended December 17, 1992) and 4202 (as amended December 17, 1992) and Madera County Rule 402. A permit shield is granted from these requirements [District Rule 2520] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-44-5

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

BAG DUMP STATION SERVED BY TWO DONALDSON TD 486 DUST COLLECTORS

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
2. Visible emissions from each dust collector shall not exceed 5% opacity for a period of periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
3. Material removed from each dust collector shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 4102]
4. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
5. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
6. Controlled PM10 emissions from the dust collectors shall not exceed 0.0001 gr/scf. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Each dust collector shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
8. The cleaning frequency and duration for each dust collector shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Replacement bags numbering at least 10% of the total number of bags in each dust collector shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Each dust collector shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Differential operating pressure for each dust collector shall be monitored and recorded on each day that the dust collector operates. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The dust collectors shall operate at all times with a minimum differential pressure of 0.1 inches water column and a maximum differential pressure of 6 inches water column. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Records of all maintenance of each dust collector, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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14. Particulate matter emissions from each source operation shall not exceed the maximum allowable emission rate (lb/hr), as determined using the following formula: $E = 3.59 \times P^{0.62}$, where E equals the maximum allowable emission rate (lb/hr) and P equals the process weight rate (tons/hr) and is less than or equal to 30 tons/hr. [District Rule 4202] Federally Enforceable Through Title V Permit
15. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rules 4201 (as amended December 17, 1992) and 4202 (as amended December 17, 1992); and Madera County Rule 402. A permit shield is granted from these requirements. [District Rule 2520] Federally Enforceable Through Title V Permit
16. Dust collector filters for each dust collector shall be inspected weekly while in operation for evidence of particulate matter breakthrough and replaced as needed. [District Rule 2520] Federally Enforceable Through Title V Permit
17. Dust collector filters for each dust collector shall be inspected monthly while not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. Records of dust collector maintenance, inspections, and repair for each dust collector shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520] Federally Enforceable Through Title V Permit
19. Visible emissions from each dust collector shall be inspected monthly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520] Federally Enforceable Through Title V Permit
20. All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request. [District Rule 1070 and 2520] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-45-2

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

10 MMBTU/HR NATURAL GAS-FIRED PORTABLE REFRACTORY CURING EQUIPMENT WITH A HOTWORK SJB LOW NOX BURNER AND COMBUSTION AIR BLOWER

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. The unit shall only be fired on PUC-regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
4. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in the unit shall be installed, utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Maximum fuel use of the unit shall not exceed 170,000 scf per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Maximum fuel use of units C-801-45 and '46 combined shall not exceed 2,900,000 scf per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 35 ppmvd NO_x @ 3% O₂ or 0.042 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 300 ppmvd CO @ 3% O₂ or 0.218 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Records of daily and annual natural gas usage of the unit shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
9. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-46-2

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

10 MMBTU/HR NATURAL GAS-FIRED PORTABLE REFRACTORY CURING EQUIPMENT WITH A HOTWORK SJB LOW NOX BURNER AND COMBUSTION AIR BLOWER

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. The unit shall only be fired on PUC-regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
4. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in the unit shall be installed, utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Maximum fuel use of the unit shall not exceed 170,000 scf per day. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Maximum fuel use of units C-801-45 and '46 combined shall not exceed 2,900,000 scf per year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 35 ppmvd NO_x @ 3% O₂ or 0.042 lb-NO_x/MMBtu, 0.00285 lb-SO_x/MMBtu, 0.0076 lb-PM₁₀/MMBtu, 300 ppmvd CO @ 3% O₂ or 0.218 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Records of daily and annual natural gas usage of the unit shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
9. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-48-2

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

PORTABLE 0.8 MMBTU/HR PROPANE-FIRED FOREHEARTH HEATING SYSTEM CONSISTING OF TWO 0.4 MMBTU/HR BURNERS

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. The unit shall only be fired on propane. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Except for 168 hours per year for maintenance and testing purposes, the heater system shall only operate when the forehearth for which it is serving is not fired on any fuel. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Emissions from the propane-fired unit shall not exceed any of the following limits: 0.15 lb-NO_x/MMBtu, 0.0164 lb-SO_x/MMBtu, 0.0044 lb-PM₁₀/MMBtu, 0.21 lb-CO/MMBtu, or 0.0055 lb-VOC/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The permittee shall record the total time the unit operates, in hours per calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
7. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-50-2

EXPIRATION DATE: 01/31/2027

EQUIPMENT DESCRIPTION:

CULLET CRUSHING OPERATION POWERED BY A PERMIT EXEMPT IC ENGINE (PER RULE 2020, SECTION 4.3, DEFINED AS MOTOR VEHICLE-POWERED FRONT LOADER) WITH WATER SPRAYS TO BE OPERATED AT VARIOUS LOCATIONS WITHIN THE SAME STATIONARY SOURCE

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Emissions from the cullet crusher shall not exceed 0.00054 lb-PM10 per ton of cullet processed. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The maximum throughput for the cullet crushing operation shall not exceed 1,000 tons of cullet per day. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The cullet crusher shall be equipped with water spray nozzles. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The spray nozzles serving the cullet crusher shall be maintained in proper working condition at all times and shall be turned on and confirmed to be operating correctly prior to crushing. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Daily and annual records of cullet processed in tons shall be maintained, retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit

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