



MAR 30 2017

Mr. Darryl Shaffer
Ardagh Glass Inc
24441 Avenue 12
Madera, CA 93637

**Re: Notice of Final Action - Title V Permit Renewal
District Facility # C-801
Project # C-1142273**

Dear Mr. Shaffer:

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 March 1, 2016. A summary of the comments and the District's response to each comment is included as an attachment to the engineering evaluation.

The public notice for issuance of the Final Title V Permit will be published approximately three days from the date of this letter.

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,

Arnaud Marjollet
Director of Permit Services

Enclosures

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

Seyed Sadredin
Executive Director/Air Pollution Control Officer

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

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-6000 FAX: (559) 230-6061

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: 661-392-5500 FAX: 661-392-5585

SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT

Title V Permit Renewal Evaluation
Ardagh Glass Inc
C-801

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TITLE V PERMIT RENEWAL EVALUATION
Glass Manufacturing

Engineer: Vanesa Gonzalez
Date: January 24, 2017

Facility Number: C-801
Facility Name: Ardagh Glass Inc.
Mailing Address: 24441 Avenue 12
Madera, CA 93637

Contact Name: Darryl Shaffer
Phone: (765) 852-7117

Responsible Official: Darryl Shaffer
Title: Plant Manager

Project # : C-1142273
Deemed Complete: August 5, 2014

I. PROPOSAL

Ardagh Glass Inc. was issued a Title V permit on July 15, 1998. The last Title V renewal was issued on April 15, 2013. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit shall be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the last Title V permit renewal.

The purpose of this evaluation is to provide the legal and factual basis for all updated applicable requirements and to determine if the facility will comply with these updated requirements. It also specifically identifies all additions, deletions, and/or changes made to permit conditions or equipment descriptions.

II. FACILITY LOCATION

Ardagh Glass Inc is located at 24441 Avenue 12 and Road 24 ½ in Madera.

III. EQUIPMENT LISTING

A detailed facility printout listing all permitted equipment at the facility is included as Attachment C.

IV. GENERAL PERMIT TEMPLATE USAGE

The applicant is requesting to use the following model general permit Template:

A. Template SJV-UM-0-3 Facility Wide Umbrella

The applicant has requested to utilize template No. SJV-UM-0-3, Facility Wide Umbrella. Based on the information submitted in the Template Qualification Form, the applicant qualifies for the use of this template.

V. SCOPE OF EPA AND PUBLIC REVIEW

Certain segments of the proposed Renewed Operating Permit are based on model general permit templates that have been previously subject to EPA and public review. The terms and conditions from the model general permit templates are included in the proposed permit and are not subject to further EPA and public review.

For permit applications utilizing model general permit templates, public and agency comments on the District's proposed actions are limited to the applicant's eligibility for model general permit template, applicable requirements not covered by the model general permit template, and the applicable procedural requirements for issuance of Title V Operating Permits.

The following permit conditions, including their underlying applicable requirements, originate from model general permit templates and are not subject to further EPA or public review.

Conditions 1 through 40 of the requirements for permit unit C-801-0-4.

VI. FEDERALLY ENFORCEABLE REQUIREMENTS

A. Rules Updated

- District Rule 2201, New and Modified Stationary Source Review Rule (amended April 21, 2011)

- District Rule 4702, Internal Combustion Engines
(amended January 18, 2007 ⇒ amended November 14, 2013)

B. Rules Added or Evaluated

- 40 CFR 63 ZZZZ, National Emissions Standards of Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
- 40 CFR 63 SSSSSS, National Emissions Standards of Hazardous Air Pollutants for Glass Manufacturing Area Source
- 40 CFR 64 Compliance Assurance Prevention (CAM)

C. Rules Not Updated

- District Rule 1070, Inspections (amended December 17, 1992)
- District Rule 1080, Stack Monitoring (amended December 17, 1992)
- District Rule 1081, Source Sampling (amended December 16, 1993)
- District Rule 2520, Federally Mandated Operating Permit (amended June 21, 2001)
- District Rule 4201, Particulate Matter Concentration (amended December 17, 1992)
- District Rule 4202, Particulate Matter - Emission Rate (amended December 17, 1992)
- District Rule 4301, Fuel Burning Equipment (amended December 17, 1992)
- District Rule 4354, Glass Melting Furnaces (amended May 19, 2011)
- District Rule 4701, Internal Combustion Engines – Phase I (amended August 21, 2003)
- District Rule 4801, Sulfur Compounds (amended December 17, 1992)
- 40 CFR 68, Chemical Accident Prevention

VII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

For each Title V source, the District issues a single permit that contains the Federally Enforceable requirements, as well as the District-only requirements. The District-only requirements are not a part of the Title V Operating Permits. The terms and conditions that are part of the facility's Title V permit are designated as "Federally Enforceable Through Title V Permit."

For this facility, the following are not Federally Enforceable and will not be discussed in further detail:

A. Rules Added

Title 17 CCR, Section 93115 - Airborne Toxic Control Measure (ATCM) for Stationary Compression-Ignition (CI) Engines

The Air Toxic Control Measure (ATCM) is a rule under the California Code of Regulations (CCR) which is the official compilation and publication of the regulations adopted, amended or repealed by state agencies. The purpose of this rule is to reduce diesel particulate matter (PM) and criteria pollutant emissions from stationary diesel-fueled compression ignition engines.

- a) C-801-7-5: 375 BHP CATERPILLAR MODEL 3406-DI DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRIC GENERATOR
 - Conditions 4, 5, 6, 9, 11, 12 and 13 of the renewed requirements for this permit unit comply with this rule.
- b) C-801-38-3: 240 BHP JOHN DEERE MODEL PE6068HF120 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP
 - Conditions 2 and 4 through 10 of the renewed requirements for this permit unit comply with this rule.
- c) C-801-41-2: 1,490 BHP CUMMINS MODEL #QST30-G5 NR2 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
 - Conditions 2, 4, 5, 6, 9, 12, 13, and 14 of the renewed requirements for this permit unit comply with this rule.

B. Rules Not Updated

- District Rule 4102, Nuisance (as amended December 17, 1992)

Condition 41 of the facility-wide requirements, C-801-0-4, is based on the rule listed above and is not Federally Enforceable through Title V. This condition will not be discussed any further.

VIII. PERMIT REQUIREMENTS

The purpose of this evaluation is to review changes to federally enforceable requirements; therefore, this compliance section will only address rules that have been amended or added since the issuance of the initial Title V permit or most recent renewal of the Title V permit.

A. District Rule 2201 - New and Modified Stationary Source Review Rule

District Rule 2201 has been amended since this facility's initial Title V permit was issued. This Title V permit renewal does not constitute a modification per section 3.25, defined as an action including at least one of the following items:

- 1) Any change in hours of operation, production rate, or method of operation of an existing emissions unit, which would necessitate a change in permit conditions.
- 2) Any structural change or addition to an existing emissions unit which would necessitate a change in permit conditions. Routine replacement shall not be considered to be a structural change.
- 3) An increase in emissions from an emissions unit caused by a modification of the Stationary Source when the emissions unit is not subject to a daily emissions limitation.
- 4) Addition of any new emissions unit which is subject to District permitting requirements.
- 5) A change in a permit term or condition proposed by an applicant to obtain an exemption from an applicable requirement to which the source would otherwise be subject.

Therefore, the updated requirements of this rule are not applicable at this time.

However, the following changes have been made to the other requirements of the permit units to update the permit language.

- a) C-801-1-21: 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)

Condition 3 of the permit requirements has been removed from the renewed permit requirements and included as condition 22 of the facility wide permit.

Condition 9 of the permit requirements has been revised to remove the verbiage to install a CEM since the system was installed. The remainder of the condition requirements is included as condition 8 of the renewed permit requirements.

Condition 40 of the permit requirements has been removed. This condition included start up requirements that have been met.

Condition 69 of the permit requirements has been removed. This condition included testing requirements that have been met.

Conditions 92, 99 through 105, 107, 108 and 110 of the permit requirements have been revised to replace the reference of SGCI (Saint Gobain Container International) to "permittee" since; SGCI is no longer the owner. The revised conditions are included as conditions 89, 96 through 102, 104, 105, and 107 of the renewed permit requirements.

- b) C-801-2-14: 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)

Condition 3 of the permit requirements has been removed from the renewed permit requirements and included as condition 22 of the facility wide permit.

Condition 82 of the permit requirements has been removed. This condition required the facility to submit records to EPA in accordance with USEPA

Consent Decree 1:05-CV-00516-REC-SMS issued June 22, 2005 until the decree was terminated. On September 9, 2010 the Consent Decree was terminated. Therefore, this condition is no longer applicable

Condition 84 of the permit requirements has been removed. This condition required the facility to submit an Authority to Construct application and be in full compliance with District Rule 4354, Section 5.1 Tier 3 NOx emission limits by January 1, 2014, these requirements that have been met.

Condition 88 of the permit requirements has been removed. This condition included testing requirements that have been met.

Conditions 5 through 18, 36, 37, 39, 40, 44, 45, 52, 57 through 59, 61, 70, and 80 through 83 of the permit requirements reference USEPA Consent Decree 1:05-CV-00516-REC-SMS issued June 22, 2005. On September 9, 2010 the Consent Decree was terminated. Therefore, the rule reference of these conditions have been revised to remove the reference to the Consent Decree and are included as conditions 4 through 17, 35, 36, 38, 39, 43, 44, 51, 56 through 58, 60, 69, and 79 through 82 of the renewed permit requirements.

- c) C-801-7-5: 375 BHP CATERPILLAR MODEL 3406-DI DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRIC GENERATOR

Conditions 9 and 10 of the renewed permit requirements were added for District Rule 4702 compliance.

Conditions 12 through 15 of the current permits requirements have been superseded by conditions 14 through 20 of the renewed permit requirements. Conditions 14 through 20 ensure compliance with 40 CFR 63 Subpart ZZZZ requirements.

- d) C-801-11-9: 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)

Condition 3 of the permit requirements has been removed. This condition contained a particulate matter grain loading limit for District Rule 4201. However, this operation does not have an exhaust stack all particulate emissions from this unit are fugitive. Therefore, this unit is not subject to District Rule 4201.

- e) C-801-12-9: HOT END BOTTLE COATING OPERATION INCLUDING FIVE COATING LINES (THREE FOR FURNACE #1 AND TWO FOR FURNACE #2) WITH FIVE COATING UNITS

Condition 3 of the permit requirements has been removed. This condition contained a particulate matter grain loading limit for District Rule 4201. However, this operation does not have an exhaust stack all particulate emissions from this unit are fugitive. Therefore, this unit is not subject to District Rule 4201.

- f) C-801-37-3: 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

Condition 9 of the permit requirements of current permit to operate C-801-37-2 requires the differential pressure gauge reading of the baghouse to be established per manufacturer's recommendations at the time of start-up inspection. During the start-up inspection the baghouse differential pressure gauge reading was established but inadvertently left off the permit requirements. Therefore, condition 9 for the renewed permit requirements has been replaced by a revised condition including the established differential pressure gauge range.

Conditions 1 through 8, and 10 through 17 of the permit requirements are included as conditions 1 through 8, and 10 through 17 of the renewed permit requirements.

- g) C-801-38-3: 240 BHP JOHN DEERE MODEL PE6068HF120 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

Condition 10 was added to the renewed permit requirements to show compliance with Title 17 CCR 93115 ATCM requirements.

Conditions 10 through 13 of the current permits requirements have been superseded by conditions 11 through 17 of the renewed permit requirements. Conditions 11 through 17 ensure compliance with 40 CFR 63 Subpart ZZZZ requirements.

- h) C-801-41-2: 1,490 BHP CUMMINS MODEL #QST30-G5 NR2 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

Conditions 15 through 18 of the current permits requirements have been superseded by conditions 15 through 21 of the renewed permit requirements. Conditions 15 through 21 ensure compliance with 40 CFR 63 Subpart ZZZZ requirements.

- i) C-801-45-1: 10 MMBTU/HR NATURAL GAS-FIRED PORTABLE REFRACTORY CURING EQUIPMENT WITH A HOTWORK SJB LOW NOX BURNER AND COMBUSTION AIR BLOWER

Condition 2 of the permit requirements has been removed from the renewed permit requirements and included as condition 22 of the facility wide permit.

- j) C-801-46-1: 10 MMBTU/HR NATURAL GAS-FIRED PORTABLE REFRACTORY CURING EQUIPMENT WITH A HOTWORK SJB LOW NOX BURNER AND COMBUSTION AIR BLOWER

Condition 2 of the permit requirements has been removed from the renewed permit requirements and included as condition 22 of the facility wide permit.

B. District Rule 4702 – Internal Combustion Engines

The purpose of this rule is to limit the emissions of nitrogen oxides (NO_x), carbon monoxide (CO), volatile organic compounds (VOC), and sulfur oxides (SO_x) from internal combustion engines. This rule applies to any internal combustion engine rated at 25 brake horsepower or greater.

Per Section 4.2, except for the requirements of Sections 5.9 and 6.2.3, the requirements of this rule shall not apply to an emergency standby engine or a low-use engine, provided that the engine is operated with an operating nonresettable elapsed time meter.

4.2.1 In lieu of operating a nonresettable elapsed time meter, the operator may use an alternative device, method, or technique, in determining operating time, provided that the alternative is approved by the APCO and EPA and is allowed by the Permit-to-Operate or Permit-Exempt Equipment Registration. The operator must demonstrate that the alternative device, method, or technique is equivalent to using a nonresettable elapsed time meter.

4.2.2 The operator shall properly maintain and operate the nonresettable elapsed time meter or alternative device in accordance with the manufacturer's instructions.

Section 5.9 outlines the monitoring requirements for all engines other than non-AO spark-ignited engines and engines in an AECF and requires the operator of any of the engines identified in Section 5.9.1.1 through Section 5.9.1.3 to comply with the requirements of Section 5.9.2 through 5.9.5.

- 5.9.1.1 An AO spark-ignited engine subject to the requirements of Section 5.2;
- 5.9.1.2 A compression-ignited engine subject to the requirements of Section 5.2; or
- 5.9.1.3 An engine subject to Section 4.2.

Section 5.9.2 requires the operator to properly operate and maintain each engine as recommended by the engine manufacturer or emission control system supplier.

Section 5.9.3 requires the operator to monitor the operational characteristics of each engine as recommended by the engine manufacturer or emission control system supplier.

Section 5.9.4 requires the operator to install and operate a non-resettable elapsed time meter and properly maintain and operate the non-resettable elapsed time meter in accordance with the manufacturer's instructions. The operator is also allowed to use an alternative device, method, or technique in lieu of installing a nonresettable elapsed time meter provided that the alternative is approved by the APCO and EPA and is allowed by a Permit-to-Operate or Permit-Exempt Equipment Registration condition. The engines are equipped with a non-resettable elapsed time meter; therefore, the engines are in compliance with the requirements of this section.

Section 5.9.5 requires the operator of an AO spark-ignited engine that has been retro-fitted with a NO_x exhaust control that has not been certified or a compression-ignited engine that has been retro-fitted with a NO_x exhaust control to comply with the requirements of Section 5.9.5.1 through Section 5.9.5.7. The engines at this facility have not been retro-fitted with any NO_x exhaust control; therefore, the requirements of this section are not applicable to the engines in this project.

- a) C-801-7-5: 375 HP CATERPILLAR MODEL 3406-DI DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRIC GENERATOR

Conditions 4, 5, and 7 through 12 of the renewed permit requirements ensure compliance with this rule.

- b) C-801-38-3: 240 BHP JOHN DEERE MODEL PE6068HF120 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

Conditions 2, 4, 8 and 9 of the renewed permit requirements ensure compliance with this rule.

- c) C-801-41-2: 1,490 BHP CUMMINS MODEL #QST30-G5 NR2 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

Conditions 2, 7 through 13 of the renewed permit requirements ensure compliance with this rule.

Section 6.2.3 requires an operator claiming an exemption under Section 4.2 or Section 4.3 shall maintain annual operating records. This information shall be retained for at least five years, shall be readily available, and provided to the APCO upon request. The records shall include, but are not limited to, the following:

- Total hours of operation,
- The type of fuel used,
- The purpose for operating the engine,
- For emergency standby engines, all hours of non-emergency and emergency operation shall be reported, and
- Other support documentation necessary to demonstrate claim to the exemption.

- a) C-801-7-5: 375 BHP CATERPILLAR MODEL 3406-DI DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRIC GENERATOR

Conditions 5 and 11 of the renewed permit requirements ensure compliance with this rule.

- b) C-801-38-3: 240 BHP JOHN DEERE MODEL PE6068HF120 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

Conditions 8 and 9 of the renewed permit requirements ensure compliance with this rule.

- c) C-801-41-2: 1,490 BHP CUMMINS MODEL #QST30-G5 NR2 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

Conditions 12 and 13 of the renewed permit requirements ensure compliance with this rule.

C. 40 CFR Part 63 Subpart ZZZZ – National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

§63.6585 states an owner or operator is subject to this subpart if it owns or operates a stationary RICE at a major or area source of HAP emissions. A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year. An area source of HAP emissions is a source that is not a major source.

This facility is an area source of HAP emissions since it is not a major source of HAP per §63.6585(b).

§63.6590(a)(1)(iii) For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

Permit units C-801-7-5, -38-3 and -41-2 are existing stationary RICE since they commenced construction before June 12, 2006.

§63.6603(a) An existing stationary RICE located at an area source of HAP emissions must comply with the applicable requirements in Table 2d to this subpart.

As stated in §§63.6603 and 63.6640, the facility must comply with the following requirements for existing stationary RICE located at area sources of HAP emissions:

Table 2d - Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions		
For each	You must meet the following requirement, except during periods of startup	During periods of startup you must
5. Emergency stationary SI RICE; black start stationary SI RICE; non-emergency, non-black start 4SLB stationary RICE >500 HP that operate 24 hours or less per calendar year; non-emergency, non-black start 4SRB stationary RICE >500 HP that operate 24 hours or less per calendar year.	<p>a. Change oil and filter every 500 hours of operation or annually, whichever comes first;¹;</p> <p>b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and</p> <p>c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.</p>	--

¹ Sources have the option to utilize an oil analysis program as described in §63.6625(i) or (j) in order to extend the specified oil change requirement in Table 2d of this subpart.

²If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of this subpart, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable

§63.66259(e) The operator shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions

§63.6655(a) If you must comply with the emission and operating limitations, you must keep the records described in the following paragraphs (a)(1) through (a)(5).

(a)(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv).

(a)(2) Records of the occurrence and duration of each malfunction of operation (*i.e.*, process equipment) or the air pollution control and monitoring equipment.

(a)(3) Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).

(a)(4) Records of all required maintenance performed on the air pollution control and monitoring equipment.

(a)(5) Records of actions 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.

a) C-801-7-5: 375 BHP CATERPILLAR MODEL 3406-DI DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRIC GENERATOR

Conditions 5, 12, and 14 through 20 of the renewed permit requirements ensure compliance with this rule.

b) C-801-38-3: 240 BHP JOHN DEERE MODEL PE6068HF120 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

Conditions 4, 9, and 11 through 17 of the renewed permit requirements ensure compliance with this rule.

c) C-801-41-2: 1,490 BHP CUMMINS MODEL #QST30-G5 NR2 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

Conditions 9, 13, and 15 through 21 of the renewed permit requirements ensure compliance with this rule.

D. 40 CFR Part 63 Subpart SSSSSS – National Emission Standard for Hazardous Air Pollutants for Glass Manufacturing Area Sources

Section 63.11448

You are subject to this subpart if you own or operate a glass manufacturing facility that is an area source of hazardous air pollutant (HAP) emissions and meets all of the criteria specified in paragraphs (a) through (c) of this section.

- (a) A glass manufacturing facility is a plant site that manufactures flat glass, glass containers, or pressed and blown glass by melting a mixture of raw materials, as defined in §63.11459, to produce molten glass and form the molten glass into sheets, containers, or other shapes.
- (b) An area source of HAP emissions is any stationary source or group of stationary sources within a contiguous area under common control that does not have the potential to emit any single HAP at a rate of 9.07 megagrams per year (Mg/yr) (10 tons per year (tpy)) or more and any combination of HAP at a rate of 22.68 Mg/yr (25 tpy) or more.
- (c) Your glass manufacturing facility uses one or more continuous furnaces to produce glass that contains compounds of one or more glass manufacturing metal HAP, as defined in §63.11459, as raw materials in a glass manufacturing batch formulation.

The facility is a glass manufacturing facility, is an area source of HAP emissions, and uses raw materials containing chromium. Therefore, this facility is subject to the requirements of this subpart.

Section 63.11449

- (a) This subpart applies to each existing or new affected glass melting furnace that is located at a glass manufacturing facility and satisfies the requirements specified in paragraphs (a)(1) through (3) of this section.
 - (1) The furnace is a continuous furnace, as defined in §63.11459.
 - (2) The furnace is charged with compounds of one or more glass manufacturing metal HAP as raw materials.
 - (3) The furnace is used to produce glass, which contains one or more of the glass manufacturing metal HAP as raw materials, at a rate of at least 45 Mg/yr (50 tpy).
- (b) A furnace that is a research and development process unit, as defined in §63.11459, is not an affected furnace under this subpart.
- (c) An affected source is an existing source if you commenced construction or reconstruction of the affected source on or before September 20, 2007.
- (d) An affected source is a new source if you commenced construction or reconstruction of the affected source after September 20, 2007.

- (e) If you own or operate an area source subject to this subpart, you must obtain a permit under 40 CFR part 70 or 40 CFR part 71.

Furnace #1 and #2, permit units C-801-1 and -2 are continuous furnaces, use raw materials containing chromium, and have permitted glass production rate of 450 tons/day and 600 tons/day respectively. Therefore, this subpart applies. This facility is an existing source since Furnace #1 and #2 commenced construction before September 20, 2007. This facility is an area source and has obtained a permit under 40 CFR part 70.

Section 63.11450

- (a) If you have an existing affected source, you must comply with the applicable emission limits specified in §63.11451 of this subpart no later than December 28, 2009. As specified in section 112(i)(3)(B) of the Clean Air Act and in §63.6(i)(4)(A), you may request that the Administrator or delegated authority grant an extension allowing up to 1 additional year to comply with the applicable emission limits if such additional period is necessary for the installation of emission controls.
- (b) If you have a new affected source, you must comply with this subpart according to paragraphs (b)(1) and (2) of this section.
- (1) If you start up your affected source on or before December 26, 2007, you must comply with the applicable emission limit specified in §63.11451 no later than December 26, 2007.
- (2) If you start up your affected source after December 26, 2007, you must comply with the applicable emission limit specified in §63.11451 upon initial startup of your affected source.
- (c) If you own or operate a furnace that produces glass containing one or more glass manufacturing metal HAP as raw materials at an annual rate of less than 45 Mg/yr (50 tpy), and you increase glass production for that furnace to an annual rate of at least 45 Mg/yr (50 tpy), you must comply with the applicable emission limit specified in §63.11451 within 2 years of the date on which you increased the glass production rate for the furnace to at least 45 Mg/yr (50 tpy).
- (d) If you own or operate 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 you begin production of a glass product that includes one or more glass manufacturing metal HAP as raw materials, and you produce at least 45 Mg/yr (50 tpy) of this glass product, you must comply with the applicable emission limit specified in §63.11451 within 2 years of the date on which you introduced production of the glass product that contains glass manufacturing metal HAP.
- (e) You must meet the notification requirements in §63.11456 according to the schedule in §63.11456 and in 40 CFR part 63, subpart A. Some of the notifications must be submitted before you are required to comply with emission limits specified in this subpart.

The required notifications have been submitted. Therefore, compliance with the requirements of this section has been satisfied.

Section 63.11451

If you are an owner or operator of an affected furnace, as defined in §63.11449(a), you must meet the applicable emission limit specified in Table 1 of this subpart.

The following conditions will ensure compliance with the requirements of this section.

- a) C-801-1-21: 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)

Conditions 69 and 70 of the renewed permit requirements ensure compliance with this section.

- b) C-801-2-14: 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)

Conditions 73 and 74 of the renewed permit requirements ensure compliance with this section.

Section 63.11452 contains initial source testing requirements. Initial performance testing has been completed on both furnaces. Therefore, the requirements of this section have been satisfied and no detailed discussion is required.

Section 63.11453 applies to new operations. Since the furnaces are existing units the requirements of this section do not apply and will not be discussed.

Section 63.11454

- (a) For each monitoring system required by this subpart, you must install, calibrate, operate, and maintain the monitoring system according to the manufacturer's specifications and the requirements specified in paragraphs (a)(1) through (7) of this section.
- (1) You must install each sensor of your monitoring system in a location that provides representative measurement of the appropriate parameter overall operating conditions, taking into account the manufacturer's guidelines.
 - (2) You must perform an initial calibration of your monitoring system based on the manufacturer's recommendations.
 - (3) You must use a monitoring system that is designed to complete a minimum of one cycle of operation for each successive 15-minute period.
 - (4) For each existing affected furnace, you must record the value of the monitored parameter at least every 8 hours. The value can be recorded electronically or manually.
 - (5) You must record the results of each inspection, calibration, monitoring system maintenance, and corrective action taken to return the monitoring system to normal operation.
 - (6) At all times, you must maintain your monitoring system including, but not limited to, maintaining necessary parts for routine repairs of the system.
 - (7) You must perform the required monitoring whenever the affected furnace meets the conditions specified in paragraph (a)(7)(i) or (ii) of this section.
 - (i) The furnace is being charged with one or more of the glass manufacturing metal HAP as raw materials.
 - (ii) The furnace is in transition between producing glass that contains one or more of the glass metal HAP as raw materials and glass that does not contain any of the glass manufacturing metal HAP as raw materials. The transition period begins when the furnace is charged with raw materials that do not contain any of the glass manufacturing metal HAP as raw materials and ends when the furnace begins producing a saleable glass product that does not contain any of the glass manufacturing metal HAP as raw materials.
- (b) For each existing furnace that is subject to the emission limit specified in Table 1 to this subpart and is controlled with an ESP, you must meet the requirements specified in paragraphs (b)(1) or (2) of this section.
- (1) You must monitor the secondary voltage and secondary electrical current to each field of the ESP according to the requirements of paragraph (a) of this section, or
 - (2) You must submit a request for alternative monitoring, as described in paragraph (g) of this section.

- (c) For each existing furnace that is subject to the emission limit specified in Table 1 to this subpart and is controlled with a fabric filter, you must meet the requirements specified in paragraphs (c)(1) or (2) of this section.
 - (1) You must monitor the inlet temperature to the fabric filter according to the requirements of paragraph (a) of this section, or
 - (2) You must submit a request for alternative monitoring, as described in paragraph (g) of this section.

The furnaces at this facility are not controlled with a fabric filter. Therefore, the requirements of this subsection are not applicable.

- (d) For each new furnace that is subject to the emission limit specified in Table 1 to this subpart and is controlled with an ESP, you must monitor the voltage and electrical current to each field of the ESP on a continuous basis using one or more CPMS according to the requirements for CPMS specified in §63.11453(d).
- (e) For each new furnace that is subject to the emission limit specified in Table 1 to this subpart and is controlled with a fabric filter, you must install and operate a bag leak detection system according to the requirements specified in §63.11453(c).

The furnaces at this facility are not new. Therefore, the requirements of these subsections are not applicable.

- (f) For each new or existing furnace that is subject to the emission limit specified in Table 1 to this subpart and is equipped with a control device other than an ESP or fabric filter, you must meet the requirements in §63.8(f) and submit a request for approval of alternative monitoring methods to the Administrator no later than the submittal date for the Notification of Compliance Status, as specified in §63.11456(b). The request must contain the information specified in paragraphs (f)(1) through (5) of this section.
 - (1) Description of the alternative add-on air pollution control device (APCD).
 - (2) Type of monitoring device or method that will be used, including the sensor type, location, inspection procedures, quality assurance and quality control (QA/QC) measures, and data recording device.
 - (3) Operating parameters that will be monitored.
 - (4) Frequency that the operating parameter values will be measured and recorded.
 - (5) Procedures for inspecting the condition and operation of the control device and monitoring system.
- (g) If you wish to use a monitoring method other than those specified in paragraph (b)(1) or (c)(1) of this section, you must meet the requirements in §63.8(f) and submit a request for approval of alternative monitoring methods to the Administrator no later than the submittal date for the Notification of

Compliance Status, as specified in §63.11456(b). The request must contain the information specified in paragraphs (g)(1) through (5) of this section.

- (1) Type of monitoring device or method that will be used, including the sensor type, location, inspection procedures, QA/QC measures, and data recording device.
- (2) Operating parameters that will be monitored.
- (3) Frequency that the operating parameter values will be measured and recorded.
- (4) Procedures for inspecting the condition and operation of the monitoring system.
- (5) Explanation for how the alternative monitoring method will provide assurance that the emission control device is operating properly.

The deadline for submittal of the Notification of Compliance Status has passed. Therefore, compliance with the requirements of this subsection has been satisfied.

- a) C-801-1-21: 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)

Conditions 71 and 72 of the renewed permit requirements ensure compliance with this section.

- b) C-801-2-14: 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)

Conditions 75 and 76 of the renewed permit requirements ensure compliance with this section.

Section 63.11455

- (a) You must be in compliance with the applicable emission limits in this subpart at all times, except during periods of startup, shutdown, and malfunction.
- (b) You must always operate and maintain your affected source, including air pollution control and monitoring equipment, according to the provisions in §63.6(e)(1)(i).
- (c) For each affected furnace that is subject to the emission limit specified in Table 1 to this subpart, you must monitor the performance of the furnace emission control device under the conditions specified in §63.11454(a)(7) and according to the requirements in §§63.6(e)(1) and 63.8(c) and paragraphs (c)(1) through (6) of this section.
 - (1) For each existing affected furnace that is controlled with an ESP, you must monitor the parameters specified in §63.11454(b) in accordance with the requirements of §63.11454(a) or as specified in your approved alternative monitoring plan.
 - (2) For each new affected furnace that is controlled with an ESP, you must comply with the monitoring requirements specified in §63.11454(d) in accordance with the requirements of §63.11454(a) or as specified in your approved alternative monitoring plan.
 - (3) For each existing affected furnace that is controlled with a fabric filter, you must monitor the parameter specified in §63.11454(c) in accordance with the requirements of §63.11454(a) or as specified in your approved alternative monitoring plan.
 - (4) For each new affected furnace that is controlled with a fabric filter, you must comply with the monitoring requirements specified in §63.11454(e) in accordance with the requirements of §63.11454(a) or as specified in your approved alternative monitoring plan.
 - (5) For each affected furnace that is controlled with a device other than a fabric filter or ESP, you must comply with the requirements of your approved alternative monitoring plan, as required in §63.11454(g).
 - (6) For each monitoring system that is required under this subpart, you must keep the records specified in §63.11457.
- (d) Following the initial inspections, you must perform periodic inspections and maintenance of each affected furnace control device according to the requirements in paragraphs (d)(1) through (4) of this section.
 - (1) For each fabric filter, you must conduct inspections at least every 12 months according to paragraphs (d)(1)(i) through (iii) of this section.
 - (i) You must inspect the ductwork and fabric filter unit for leakage.
 - (ii) You must inspect the interior of the fabric filter for structural integrity and to determine the condition of the fabric filter.

- (iii) If an initial inspection is not required, as specified in §63.11453(b)(3)(i), the first inspection must not be more than 12 months from the last inspection.
 - (2) For each ESP, you must conduct inspections according to the requirements in paragraphs (d)(2)(i) through (iii) of this section.
 - (i) You must conduct visual inspections of the system ductwork, housing unit, and hopper for leaks at least every 12 months.
 - (ii) You must 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.
 - (iii) If an initial inspection is not required, as specified in §63.11453(b)(3)(ii), the first inspection must not be more than 24 months from the last inspection.
 - (3) You must record the results of each periodic inspection specified in this section in a logbook (written or electronic format), as specified in §63.11457(c).
 - (4) If the results of a required inspection indicate a problem with the operation of the emission control system, you must take immediate corrective action to return the control device to normal operation according to the equipment manufacturer's specifications or instructions.
- (e) 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, you must demonstrate continuous compliance by satisfying the applicable recordkeeping requirements specified in §63.11457.
- a) C-801-1-21: 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)

Conditions 73 through 77 of the renewed permit requirements ensure compliance with this section.

- b) C-801-2-14: 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)

Conditions 77 through 81 of the renewed permit requirements ensure compliance with this section.

Section 63.11456

- (a) If you own or operate an affected furnace, as defined in §63.11449(a), you must submit an Initial Notification in accordance with §63.9(b) and paragraphs (a)(1) and (2) of this section by the dates specified.
- (1) As specified in §63.9(b)(2), if you start up your affected source before December 26, 2007, you must submit an Initial Notification not later than April 24, 2008 or within 120 days after your affected source becomes subject to the standard.
- (2) The Initial Notification must include the information specified in §63.9(b)(2)(i) through (iv).
- (b) You must submit a Notification of Compliance Status in accordance with §63.9(h) and the requirements in paragraphs (b)(1) and (2) of this section.
- (1) If you own or operate an affected furnace and are required to conduct a performance test, you must submit a Notification of Compliance Status, including the performance test results, before the close of business on the 60th day following the completion of the performance test, according to §60.8 or §63.10 (d)(2).
- (2) If you own or operate an affected furnace and satisfy the conditions specified in §63.11452(a)(2) and are not required to conduct a performance test, you must submit a Notification of Compliance Status, including the results of the previous performance test, before the close of business on the compliance date specified in §63.11450.

The Initial Notification and Notification of Compliance Status have been submitted. Therefore, compliance with this section is satisfied.

Section 63.11457

- (a) You must keep the records specified in paragraphs (a)(1) through (8) of this section.

- (1) A copy of any Initial Notification and Notification of Compliance Status that you submitted and all documentation supporting those notifications, according to the requirements in §63.10(b)(2)(xiv).
 - (2) The records specified in §63.10(b)(2) and (c)(1) through (13).
 - (3) The records required to show continuous compliance with each emission limit that applies to you, as specified in §63.11455.
 - (4) For each affected source, records of production rate on a process throughput basis (either feed rate to the process unit or discharge rate from the process unit). The production data must include the amount (weight or weight percent) of each ingredient in the batch formulation, including all glass manufacturing metal HAP compounds.
 - (5) Records of maintenance activities and inspections performed on control devices as specified in §§63.11453(b) and 63.11455(d), according to paragraphs (a)(5)(i) through (v) of this section.
 - (i) The date, place, and time of inspections of control device ductwork, interior, and operation.
 - (ii) Person conducting the inspection.
 - (iii) Technique or method used to conduct the inspection.
 - (iv) Control device operating conditions during the time of the inspection.
 - (v) Results of the inspection and description of any corrective action taken.
 - (6) Records of all required monitoring data and supporting information including all calibration and maintenance records.
 - (7) For each bag leak detection system, the records specified in paragraphs (a)(7)(i) through (iii) of this section.
 - (i) Records of the bag leak detection system output;
 - (ii) Records of bag leak detection system adjustments, including the date and time of the adjustment, the initial bag leak detection system settings, and the final bag leak detection system settings; and
 - (iii) The date and time of all bag leak detection system alarms, the time that procedures to determine the cause of the alarm were initiated, the cause of the alarm, an explanation of the actions taken, the date and time the cause of the alarm was alleviated, and whether the alarm was alleviated within 3 hours of the alarm.
 - (8) Records of any approved alternative monitoring method(s) or test procedure(s).
- (b) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).
- (c) You must record the results of each inspection and maintenance action in a logbook (written or electronic format). You must keep the logbook onsite and make the logbook available to the permitting authority upon request.
- (d) As specified in §63.10(b)(1), you must keep each record for a minimum of 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. You must keep each record onsite for at least 2 years after the date of each occurrence, measurement, maintenance,

corrective action, report, or record, according to §63.10(b)(1). You may keep the records offsite for the remaining three years.

- a) C-801-1-21: 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)

Conditions 78 and 79 of the renewed permit requirements ensure compliance with this section.

- b) C-801-2-14: 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)

Conditions 73 and 74 of the renewed permit requirements ensure compliance with this section.

E. 40 CFR Part 64 - Compliance Assurance Monitoring

40 CFR Part 64 requires Compliance Assurance Monitoring (CAM) for units that meet the following three criteria:

- 1) the unit must have an emission limit for the pollutant;
- 2) the unit must have add-on controls for the pollutant; these are devices such as flue gas recirculation (FGR), baghouses, and catalytic oxidizers; and
- 3) the unit must have a pre-control potential to emit of greater than the major source thresholds.

- a. C-801-1-21: 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)

This permit unit contains emission limits for NO_x, SO_x, CO, PM₁₀ and VOC. This unit is not equipped with any add-on control device for NO_x, SO_x, CO and VOC. Therefore, CAM is not triggered for NO_x, SO_x, CO and VOC. This permit unit is equipped with an add-on control in the form of a semi-dry scrubber/ESP for the control of PM₁₀. As determined in the previous Title V Permit Renewal C-1072785 the pre-control potential to emit for PM₁₀ pollutant exceeds the applicable major source threshold. Therefore, this unit triggered CAM for PM₁₀.

Conditions 29, 30, 31, and 32 of the renewed permit requirements require the facility to monitor the voltage and current of the precipitator to meet CAM. Therefore, this unit is in compliance with CAM.

- b. C-801-2-14: 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)

This permit unit contains emission limits for NO_x, SO_x, CO, PM₁₀ and VOC. This unit is not equipped with any add-on control device for NO_x, SO_x, CO and VOC. Therefore, CAM is not triggered for NO_x, SO_x, CO and VOC. This permit unit is equipped with an add-on control in the form of a semi-dry scrubber/ESP for the control of PM₁₀. As determined in the previous Title V Permit Renewal C-1072785 the pre-control potential to emit for PM₁₀ pollutant exceeds the applicable major source threshold. Therefore, this unit triggered CAM for PM₁₀.

Conditions 44, 45, 46, and 47 of the renewed permit requirements require the facility to monitor the voltage and currency of the precipitator to meet CAM. Therefore, this unit is in compliance with CAM.

- c. C-801-3-13: 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, AND TWO DCE DALAMATIC DU-10H-FS DUST COLLECTORS

This permit unit contains a daily emission limit for PM10. The equipment is served by add-on emissions control equipment in the form of five dust collectors. As shown below the uncontrolled potential emissions for this operation are above the major source threshold for PM10 of 140,000 lb/year. Therefore, this unit triggers CAM for PM10. Conditions 8, 9, 19, 22 and 23 of the renewed permit requirements require the facility to monitor the pressure differential gauge on each dust collector daily and evaluate visible emissions for each dust collector using EPA Method 9 on a daily basis. Therefore, CAM is satisfied by this unit.

Uncontrolled Potential to Emit Calculations:

$$PE = \text{Controlled PE} \div (1 - \text{Control Efficiency of Dust Collector})$$

The emission factor for each dust collector was taken from the current PTO, flow rate was taken from previous project C-1141089. For each dust collector the controlled emissions can be calculated as follow,

$$\text{Controlled PE} = \text{Emission Factor} \times \text{Flowrate} \times 1,440 \text{ min/day} \times 365 \text{ day/year} \div 7,000 \text{ gr/lb}$$

Dust Collector	Emission Factor (gr/scf)	Flow Rate (cfm)	Annual Emissions (lb-PM10/year)
Donaldson MBT 81-10	0.0001	6,500	49
Donaldson Torit Downflow Model #DFO 2-16	0.001	7,100	533
Donaldson Torit Model #100 PJD-8	0.001	3,400	255
Two DCE Dalamatic DU-10H-FS	0.0001	400	6
Total			843

The dust collectors are expected to have a control efficiency of 99.9%. Therefore,

$$\begin{aligned}\text{Uncontrolled PE} &= 843 \text{ lb-PM}_{10}/\text{year} \div (1 - 0.999) \\ &= 843,000 \text{ lb-PM}_{10}/\text{year}\end{aligned}$$

- d. C-801-4-4: 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

This unit is equipped with an add-on control device. However, this operation does not have a daily emissions limit. Therefore, CAM is not triggered.

- e. C-801-5-12: 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 FED FROM THREE STORAGE BINS WITH FLEX KLEEN BIN VENTS AND ONE STORAGE BIN WITH TORIT BIN VENT, AND DONALDSON TORIT MODEL #16PJD6 BAGHOUSE SERVING SILO #3 (PELLETIZED ESP DUST)

This permit unit contains a daily emission limit for PM₁₀. The equipment is served by add-on emissions control equipment in the form of 10 dust collectors. As shown below the uncontrolled potential emissions for this operation are above the major source threshold for PM₁₀ of 140,000 lb/year. Therefore, this unit triggers CAM.

Uncontrolled Potential to Emit Calculations:

$$\text{PE} = \text{Controlled PE} \div (1 - \text{Control Efficiency of Dust Collector})$$

The emission factor for each dust collector was taken from the current PTO, flow rate was taken from previous project C-1142264. For each dust collector the controlled emissions can be calculated as follow,

$$\text{Controlled PE} = \text{Emission Factor} \times \text{Flowrate} \times 1,440 \text{ min/day} \times 365 \text{ day/year} \div 7,000 \text{ gr/lb}$$

Dust Collector(s)	Emission Factor (gr/scf)	Flow Rate (cfm)	Annual Emissions (lb-PM10/year)
Six Donaldson Torit TD-486 Dust Collector	0.001	700	315
Donaldson Torit TD-486 Baghouse	0.0001	1,200	9
Two Donaldson Torit Power Core (CPC-3)	0.0001	1,200	18
Donaldson Torit #16PJD6	0.001	350	26
Total			368

The dust collectors are expected to have a control efficiency of 99.9%. Therefore,

$$\begin{aligned} \text{Uncontrolled PE} &= 368 \text{ lb-PM10/year} \div (1 - 0.999) \\ &= 368,000 \text{ lb-PM10/year} \end{aligned}$$

Conditions 8, 9, 16, 21 and 22 of the renewed permit requirements require the facility to monitor the pressure differential gauge on each dust collector daily and evaluate visible emissions for each dust collector using EPA Method 9 on a daily basis. Therefore, CAM is satisfied by this unit.

- f. C-801-6-5: 7.25 HP TORIT MODEL SDF-4 DUST COLLECTOR SERVING MINOR INGREDIENTS WEIGH SCALE, MIXER, AND MIXER DUMP HOOD

This unit is equipped with an add-on control device. However, this operation does not have a daily emissions limit. Therefore, CAM is not triggered.

- g. C-801-7-5: 375 HP CATERPILLAR MODEL 3406-DI DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRIC GENERATOR

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

- h. C-801-11-9: 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)

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

- i. C-801-12-9: HOT END BOTTLE COATING OPERATION INCLUDING FIVE COATING LINES (THREE FOR FURNACE #1 AND TWO FOR FURNACE #2) WITH FIVE COATING UNITS

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

- j. C-801-17-2: CONFINED ABRASIVE BLASTING OPERATION WITH A 600 LB EMPIRE ABRASIVE EQUIPMENT CO MODEL PC-6060-RS BLASTING POT SERVED BY EM2-4 BAGHOUSE

This unit does not contain any emissions limits. Therefore, CAM is not required for this unit.

- k. C-801-19-4: 10 MMBTU/HR NATURAL GAS-FIRED DISTRIBUTOR FOR FURNACE #2

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

- l. C-801-20-4: 7.0 MMBTU/HR NATURAL GAS-FIRED LEHR SHOP #21/#22 (FOR FURNACE #2)

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

- m. C-801-21-4: 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)

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

- n. C-801-22-3: 3.0 MMBTU/HR NATURAL GAS-FIRED GLASS FOREHEARTH (FOR FURNACE #2)

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

- o. C-801-23-3: 3.0 MMBTU/HR NATURAL GAS-FIRED GLASS FOREHEARTH (FOR FURNACE #2)

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

- p. C-801-24-3: 4.0 MMBTU/HR NATURAL GAS-FIRED GLASS FOREHEARTH (FOR FURNACE #2)

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

- q. C-801-25-4: 3.0 MMBTU/HR NATURAL GAS-FIRED GLASS FOREHEARTH #24 (FOR FURNACE #2)

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

- r. C-801-26-3: 9.9 MMBTU/HR NATURAL GAS-FIRED DISTRIBUTOR FOR FURNACE #1

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

- s. C-801-27-3: 4.3 MMBTU/HR NATURAL GAS-FIRED GLASS FOREHEARTH #11 FOR FURNACE #1

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

- t. C-801-28-3 2.7 MMBTU/HR NATURAL GAS-FIRED GLASS FOREHEARTH #12 FOR FURNACE #1

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

- u. C-801-29-3: 4.3 MMBTU/HR NATURAL GAS-FIRED GLASS FOREHEARTH #13 FOR FURNACE #1

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

- v. C-801-30-3: 5.0 MMBTU/HR NATURAL GAS-FIRED LEHR SHOP #11 FOR FURNACE #1

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

- w. C-801-31-3: 5.0 MMBTU/HR NATURAL GAS-FIRED LEHR SHOP #12 FOR FURNACE #1

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

- x. C-801-32-4: 5.0 MMBTU/HR NATURAL GAS-FIRED LEHR SHOP #13 FOR FURNACE #1

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

- y. C-801-33-2: 3.6 MMBTU/HR NATURAL GAS-FIRED FIRE POLISHING OPERATION #11 FOR FURNACE #1

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

- z. C-801-34-2: 3.6 MMBTU/HR NATURAL GAS-FIRED FIRE POLISHING OPERATION #12 FOR FURNACE #1

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

- aa. C-801-37-3: 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

This permit unit contains a daily emission limit for PM10. The equipment is served by add-on emissions control equipment in the form of a dust collector. As shown below the uncontrolled potential emissions for this

operation are above the major source threshold for PM10 of 140,000 lb/year. Therefore, this unit triggers CAM.

Uncontrolled Potential to Emit Calculations:

$$PE = \text{Controlled PE} \div (1 - \text{Control Efficiency of Baghouse})$$

The emission factor and throughput was taken from the current PTO.

Controlled emissions can be calculated as follow,

$$\begin{aligned} \text{Controlled PE} &= \text{Emission Factor} \times \text{Maximum Annual Throughput Rate} \\ &= 0.02 \text{ lb/ton} \times 212,700 \text{ ton/year} \\ &= 4,254 \text{ lb-PM}_{10}/\text{year} \end{aligned}$$

The baghouse is expected to have a control efficiency of 99.9%. Therefore,

$$\begin{aligned} \text{Uncontrolled PE} &= 4,254 \text{ lb-PM}_{10}/\text{year} \div (1 - 0.999) \\ &= 4,254,000 \text{ lb-PM}_{10}/\text{year} \end{aligned}$$

Conditions 8, 9, 11, 18 and 19 of the renewed permit requirements require the facility to monitor the pressure differential gauge on each dust collector daily and evaluate visible emissions for each dust collector using EPA Method 9 on a daily basis. Therefore, CAM is satisfied by this unit.

bb. C-801-38-3: 240 BHP JOHN DEERE MODEL PE6068HF120 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

cc. C-801-39-6: 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

This permit unit contains a daily emission limit for PM10. The equipment is served by add-on emissions control equipment in the form of a dust collector. As shown below the uncontrolled potential emissions for this operation are less than the major source threshold for PM10 of 140,000 lb/year. CAM is not triggered by this operation.

Uncontrolled Potential to Emit Calculations:

$$PE = \text{Controlled PE} \div (1 - \text{Control Efficiency of Baghouse})$$

The emission factor and throughput were taken from the current PTO. Controlled emissions can be calculated as follow,

$$\begin{aligned} \text{Controlled PE} &= \text{Emission Factor} \times \text{Maximum Annual Throughput Rate} \\ &= 0.0625 \text{ lb/ton} \times 3.2 \text{ ton/day} \times 365 \text{ day/year} \\ &= 73 \text{ lb-PM}_{10}/\text{year} \end{aligned}$$

The baghouse is expected to have a control efficiency of 99.9%. Therefore,

$$\begin{aligned} \text{Uncontrolled PE} &= 73 \text{ lb-PM}_{10}/\text{year} \div (1 - 0.999) \\ &= 73,000 \text{ lb-PM}_{10}/\text{year} \end{aligned}$$

dd. C-801-41-2: 1,490 BHP CUMMINS MODEL #QST30-G5 NR2 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

ee. C-801-42-3: 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

This unit does not contain an emissions limit. Therefore, CAM is not required for this unit.

ff. C-801-43-6: NORTH SIDE CONVEYOR ACCEPTING TRANSFER OF BATCH AND CULLET TO FURNACE #1 AND CULLET WEIGHING CONVEYOR SERVED BY MAC PROCESS MODEL 120LST81 DUST COLLECTOR

This permit unit contains an emission limit for PM₁₀. The equipment is served by add-on emissions control equipment in the form of a dust collector. As shown below the uncontrolled potential emissions for this operation are below the major source threshold for PM₁₀ of 140,000 lb/year. CAM is not triggered by this operation.

Uncontrolled Potential to Emit Calculations:

$$PE = \text{Controlled PE} \div (1 - \text{Control Efficiency of Dust Collector})$$

The emission factor for each baghouse was taken from the current PTO, flow rate was taken from previous project C-1131383. For the dust collector the controlled emissions can be calculated as follow,

$$\text{Controlled PE} = \text{Emission Factor} \times \text{Flowrate} \times 1,440 \text{ min/day} \times 365 \text{ day/year} \div 7,000 \text{ gr/lb}$$

Dust Collector			Emission Factor (gr/scf)	Flow Rate (cfm)	Annual Emissions (lb-PM10/year)
Mac	Process	Model	0.0001	5,400	41
120LST81					

The dust collector is expected to have a control efficiency of 99.9%. Therefore,

$$\begin{aligned} \text{Uncontrolled PE} &= 41 \text{ lb-PM10/year} \div (1 - 0.999) \\ &= 41,000 \text{ lb-PM10/year} \end{aligned}$$

gg. C-801-44-3: BAG DUMP STATION SERVED BY TWO DONALDSON TD 486 DUST COLLECTORS

This permit unit contains an emission limit for PM10. The equipment is served by add-on emissions control equipment in the form of two dust collectors. As shown below the uncontrolled potential emissions for this operation are below the major source threshold for PM10 of 140,000 lb/year. CAM is not trigger by this operation.

Uncontrolled Potential to Emit Calculations:

$$PE = \text{Controlled PE} \div (1 - \text{Control Efficiency of Baghouse})$$

The emission factor for each baghouse was taken from the current PTO, flow rate was taken from previous project C-1084423. For each dust collector the controlled emissions can be calculated as follow,

$$\text{Controlled PE} = \text{Emission Factor} \times \text{Flowrate} \times 1,440 \text{ min/day} \times 365 \text{ day/year} \div 7,000 \text{ gr/lb}$$

Baghouse(s)	Emission Factor (gr/scf)	Flow Rate (cfm)	Annual Emissions (lb-PM10/year)
Two Donaldson Torit TD-486 Dust Collector	0.0001	1,000	8

The baghouses are expected to have a control efficiency of 99.9%. Therefore,

$$\begin{aligned} \text{Uncontrolled PE} &= 8 \text{ lb-PM10/year} \div (1 - 0.999) \\ &= 8,000 \text{ lb-PM10/year} \end{aligned}$$

hh. C-801-45-1: 10 MMBTU/HR NATURAL GAS-FIRED PORTABLE REFRACTORY CURING EQUIPMENT WITH A HOTWORK SJB LOW NOX BURNER AND COMBUSTION AIR BLOWER

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

ii. C-801-46-1: 10 MMBTU/HR NATURAL GAS-FIRED PORTABLE REFRACTORY CURING EQUIPMENT WITH A HOTWORK SJB LOW NOX BURNER AND COMBUSTION AIR BLOWER

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

jj. C-801-48-1: PORTABLE 0.8 MMBTU/HR PROPANE-FIRED FOREHEARTH HEATING SYSTEM CONSISTING OF TWO 0.4 MMBTU/HR BURNERS

This unit is not equipped with an add-on control device. Therefore, CAM is not required for this unit.

IX. PERMIT SHIELD

A permit shield legally protects a facility from enforcement of the shielded regulations when a source is in compliance with the terms and conditions of the Title V permit. Compliance with the terms and conditions of the Operating Permit is considered compliance with all applicable requirements upon which those conditions are based, including those that have been subsumed.

A. Requirements Addressed by Model General Permit Templates

Model General Permit Template SJV-UM-0-3

By submitting Model General Permit Template SJV-UM-0-3 qualification form, the applicant has requested that a permit shield be granted for all the applicable requirements identified by the template. Therefore, the permit shields as granted in Model General Permit Template are included as conditions 39 and 40 of the facility-wide requirements (C-801-0-4).

B. Requirements not Addressed by Model General Permit Templates

The facility is not requesting any new permit shields.

X. PERMIT CONDITIONS

See Attachment A - Renewed Title V Operating Permit.

XI. ATTACHMENTS

- A. Renewed Title V Operating Permit
- B. Previous Title V Operating Permit
- C. Detailed Facility List
- D. Facility comments and District Response

ATTACHMENT A

Renewed Title V Operating Permit

Permit to Operate

FACILITY: C-801

EXPIRATION DATE: 01/31/2022

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.

Seyed Sadredin
Executive Director / APCO

Arnaud Marjollet
Director of Permit Services

San Joaquin Valley Air Pollution Control District

FACILITY: C-801-0-4

EXPIRATION DATE: 01/31/2022

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; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
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; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
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, 9.9.1 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

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
C-801-0-4 : Jan 25 2017 11:24AM - GONZALEV

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
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 8021 and 8011] 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 8031 and 8011] 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 8041 and 8011] 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 8051 and 8011] 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 8061 and 8011] 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 8071 and 8011] 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), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), 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-801-1-21

EXPIRATION DATE: 01/31/2022

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 SO_x 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

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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

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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

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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 SOx 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 SOx 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
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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, 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, 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 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
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 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
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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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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 (NO_x 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 NO_x 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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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: $\text{NOx OxyMaint} = \left[\frac{\text{MH} \times 4 \times \text{NOx Oxy Abn}}{24} \right] + \left[\frac{\text{NH} \times \text{NOx Oxy Abn}}{24} \right]$ 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-801-2-14

EXPIRATION DATE: 01/31/2022

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

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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

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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

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

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

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 SOx emissions by at least 85%, excluding days when the scrubber inlet's daily average concentration of SO2 is 353 ppmdv or less, in which case the scrubber outlet's daily average concentration of SO2 shall be reduced to at least 53 ppmdv, 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 ppmdv or less. Compliance with the SOx 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 NOx, CO, VOC, SOx, 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
These terms and conditions are part of the Facility-wide Permit to Operate.

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, 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, 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 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
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 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
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

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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, NOx emissions (in pounds of NOx 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 NOx 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

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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-801-3-13

EXPIRATION DATE: 01/31/2022

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

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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 biomass combustion operation shall be evaluated using EPA Method 9 for a period of at least 6 minutes at least once during each day that the combustor is operated. Upon determining an excursion from this requirement, the permittee shall investigate the excursion and take corrective action to minimize emissions and prevent recurrence of the excursion as expeditiously as practicable. [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-801-4-4

EXPIRATION DATE: 01/31/2022

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-801-5-12

EXPIRATION DATE: 01/31/2022

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 biomass combustion operation shall be evaluated using EPA Method 9 for a period of at least 6 minutes at least once during each day that the combustor is operated. Upon determining an excursion from this requirement, the permittee shall investigate the excursion and take corrective action to minimize emissions and prevent recurrence of the excursion as expeditiously as practicable. [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-801-6-5

EXPIRATION DATE: 01/31/2022

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-801-7-5

EXPIRATION DATE: 01/31/2022

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

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

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-801-11-9

EXPIRATION DATE: 01/31/2022

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-801-12-9

EXPIRATION DATE: 01/31/2022

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-801-17-2

EXPIRATION DATE: 01/31/2022

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-801-19-4

EXPIRATION DATE: 01/31/2022

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-801-20-4

EXPIRATION DATE: 01/31/2022

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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-21-4

EXPIRATION DATE: 01/31/2022

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-801-22-3

EXPIRATION DATE: 01/31/2022

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-801-23-3

EXPIRATION DATE: 01/31/2022

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-801-24-3

EXPIRATION DATE: 01/31/2022

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-801-25-4

EXPIRATION DATE: 01/31/2022

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-801-26-3

EXPIRATION DATE: 01/31/2022

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-801-27-3

EXPIRATION DATE: 01/31/2022

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-801-28-3

EXPIRATION DATE: 01/31/2022

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-801-29-3

EXPIRATION DATE: 01/31/2022

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-801-30-3

EXPIRATION DATE: 01/31/2022

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-801-31-3

EXPIRATION DATE: 01/31/2022

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-801-32-4

EXPIRATION DATE: 01/31/2022

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-801-33-2

EXPIRATION DATE: 01/31/2022

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-801-34-2

EXPIRATION DATE: 01/31/2022

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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-37-3

EXPIRATION DATE: 01/31/2022

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

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 biomass combustion operation shall be evaluated using EPA Method 9 for a period of at least 6 minutes at least once during each day that the combustor is operated. Upon determining an excursion from this requirement, the permittee shall investigate the excursion and take corrective action to minimize emissions and prevent recurrence of the excursion as expeditiously as practicable. [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-801-38-3

EXPIRATION DATE: 01/31/2022

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-NO_x/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

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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-801-39-6

EXPIRATION DATE: 01/31/2022

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-801-41-2

EXPIRATION DATE: 01/31/2022

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-801-42-3

EXPIRATION DATE: 01/31/2022

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-801-43-6

EXPIRATION DATE: 01/31/2022

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
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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

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-801-44-3

EXPIRATION DATE: 01/31/2022

EQUIPMENT DESCRIPTION:

BAG DUMP STATION SERVED BY TWO DONALDSON TD 486 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] 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] 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. 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
12. 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
13. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. 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
15. 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
16. 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, 9.3.2] Federally Enforceable Through Title V Permit
17. 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
18. 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
19. 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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-45-1

EXPIRATION DATE: 01/31/2022

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 NOx @ 3% O2 or 0.042 lb-NOx/MMBtu, 0.00285 lb-SOx/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-801-46-1

EXPIRATION DATE: 01/31/2022

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-801-48-1

EXPIRATION DATE: 01/31/2022

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

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

San Joaquin Valley Air Pollution Control District

FACILITY: C-801-0-3

EXPIRATION DATE: 01/31/2015

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; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
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; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
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, 9.9.1 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

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
C-801-0-3 : Jan 24 2017 3:41PM - GONZALEV

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
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 8021 and 8011] 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 8031 and 8011] 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 8041 and 8011] 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 8051 and 8011] 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 8061 and 8011] 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 8071 and 8011] 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), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), 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
44. If the Permittee settles the allegations included in the Findings and Notices of Violation issued from 1999 through 2003 by EPA, through a consent decree with the United States in federal district court, then, upon entry, this permit shall be revised to include the applicable terms and conditions of the consent decree. If the settlement efforts fail, this permit may be re-opened and revised to address the units or activities addressed in the Findings and Notices of Violation. [District Rule 2520, 9.14.1] Federally Enforceable Through Title V Permit
45. If the Permittee settles the allegations included in the District Findings and Notices of Violation through a mutual settlement process, then, upon entry, this permit shall be revised to include the applicable terms and conditions of the settlement agreement. If the settlement efforts fail, this permit may be re-opened and revised to address the units or activities addressed in the District Findings and Notices of Violation. [District Rule 2520, 9.14.1] 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-801-1-20

EXPIRATION DATE: 01/31/2015

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. 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 (12/17/92), by using EPA method 9. 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 Madera County Rule 401] Federally Enforceable Through Title V Permit
4. 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]
5. 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
6. 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
7. 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
8. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

9. The facility shall install and 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
10. 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
11. 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
12. 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
13. 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
14. 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
15. 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
16. 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
17. 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
18. 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
19. 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
20. 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

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21. 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
22. 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
23. 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
24. 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
25. 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
26. 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
27. 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
28. 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
29. 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
30. Monitoring of the ESP shall comply with the requirements of 40 CFR Part 64. [District Rule 4354] Federally Enforceable Through Title V Permit
31. 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
32. 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

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33. 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
34. The permittee shall install, 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
35. 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
36. 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
37. The permittee shall operate and maintain the semi-dry scrubber system to reduce SOx 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 ppmdv, 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 SOx 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
38. This unit shall be fired on PUC regulated natural gas or LPG backup fuel only. [District Rule 2201] Federally Enforceable Through Title V Permit
39. 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
40. Source testing to measure NOx, SOx, PM10, CO, and VOC shall be conducted within 90 days of the startup period as defined in Rule 4354 and USEPA Consent Decree 2:10-cv-00121-TSZ, entered on May 7, 2010. [District Rule 2201] Federally Enforceable Through Title V Permit
41. Source testing to measure NOx, 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
42. Source testing to measure SOx 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

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43. 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
44. 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
45. 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
46. 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
47. 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
48. 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
49. 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
50. 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
51. 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
52. 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
53. 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
54. 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

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55. 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
56. 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
57. 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
58. 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
59. 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
60. 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
61. 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
62. 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
63. 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
64. 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
65. 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

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66. 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
67. 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
68. 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
69. Compliance with a Sulfuric Acid mist emission limit of 1.0 pound per ton of glass produced shall be demonstrated by a stack test performed using Conditional Test Method 13A or B on this furnace on or before December 31, 2011. Stack testing shall be required to be performed after this initial test only once during the life of the Title V permit renewal. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section IV.8.n, filed 4/22/2010] Federally Enforceable Through Title V Permit
70. 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
71. 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
72. 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
73. 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
74. 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
75. 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
76. 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

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77. Following the initial inspections, 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
78. 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
79. 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
80. 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
81. "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
82. "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
83. "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
84. "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. SGCI 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]
85. "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

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86. "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
87. "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
88. "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
89. "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
90. "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
91. "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
92. "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 SGCI has unduly delayed completion of the Furnace Stabilization Phase. SGCI 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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93. "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
94. "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
95. "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
96. "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
97. 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
98. 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
99. SGCI shall install, 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
100. 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 SGCI 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
101. For any Abnormally Low Production Rate Day where production falls into the range of ALPR for at least one continuous hour, SGCI 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
102. For any Operating Day when the Furnace is in startup, the following limits apply: (a) Initial Heating Phase Operational Limit: SGCI 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
103. For any Operating Day when a Malfunction of the Furnace occurs for any period of time, SGCI 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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104. For any Operating Day where Maintenance activities on the Furnace are performed, SGCI 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: $\text{NOx OxyMaint} = [(MH \times 4 \times \text{NOx Oxy Abn}) / 24] + [(NH \times \text{NOx Oxy Abn}) / 24]$ 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
105. CEMS Certification cannot occur during periods of Abnormally Low Production Rate Days, Furnace Startup, Malfunction, Maintenance, or Color Transition. SGCI 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
106. 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
107. For any Operating Day that SGCI 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, SGCI 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
108. Maintenance Days that SGCI 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
109. 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
110. At all times, including periods of Abnormally Low Production Rate Days, Furnace Startup, Malfunction, Maintenance, and Color Transition, SGCI 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-801-2-13

EXPIRATION DATE: 01/31/2015

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. 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 (12/17/92), by using EPA method 9. 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
4. 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]
5. 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. [USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.13.a, issued June 22, 2005] Federally Enforceable Through Title V Permit
6. The permittee shall maintain and operate this oxy-fuel furnace such that the combustion oxidant is at least 90% oxygen. [USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.12.a.iii, issued June 22, 2005] Federally Enforceable Through Title V Permit
7. The permittee shall maintain and operate staged combustion low NO_x oxy-fuel burners on this furnace. [USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.12.a.iv, issued June 22, 2005] Federally Enforceable Through Title V Permit
8. 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. [USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.12.a.v, issued June 22, 2005] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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9. 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 and USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.12.f.i, issued June 22, 2005] Federally Enforceable Through Title V Permit
10. During the shutdown period, the emission control systems shall be in operation as soon as technologically feasible to minimize emissions. [District Rule 4354 and USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.12.f.ii, issued June 22, 2005] Federally Enforceable Through Title V Permit
11. 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 and USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.12.g.iv, issued June 22, 2005] Federally Enforceable Through Title V Permit
12. Scheduled or preventative maintenance of the emission control systems shall only occur during idling or after shutdown. [USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.12.g.v, issued June 22, 2005] Federally Enforceable Through Title V Permit
13. 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. [USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.12.h, issued June 22, 2005] Federally Enforceable Through Title V Permit
14. 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 and USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.13.c.i, issued June 22, 2005] Federally Enforceable Through Title V Permit
15. The furnace shall be equipped with a continuous emissions rate monitoring system (CERMS) for NO_x. 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 and USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.13.c.ii, issued June 22, 2005] Federally Enforceable Through Title V Permit
16. 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 and USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.13.c.iii, issued June 22, 2005] Federally Enforceable Through Title V Permit
17. The common exhaust stack for furnaces #1 and #2 shall be equipped with a continuous emission monitor (CEM) for SO_x 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 and USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.13.c.i, issued June 22, 2005] Federally Enforceable Through Title V Permit
18. 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 and USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.13.c.i, issued June 22, 2005] Federally Enforceable Through Title V Permit
19. The facility shall install and 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

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20. 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
21. 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
22. 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
23. 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
24. 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
25. 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
26. 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
27. 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
28. 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
29. 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
30. 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
31. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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32. 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
33. 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
34. Except during idling, transition, start-up, or shutdown, emissions rates from this unit shall not exceed any of the following limits: 0.8 lb-SOx/ton of container glass pulled, 0.2 lb-CO/ton of container glass pulled, or 0.2 lb-VOC/ton of container glass pulled. SOx 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
35. 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
36. Except during idling, transition, start-up, or shutdown, NOx 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 and USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.12.a.i and ii, issued June 22, 2005] Federally Enforceable Through Title V Permit
37. 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: $\text{NOx emissions rate (lbs-NOx/ton of glass pulled)} = [\text{NOx CERMS (lbs-NOx/hr)}] / [\text{glass pull rate (tons of glass pulled/hr)}]$. [USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.13.d, issued June 22, 2005] Federally Enforceable Through Title V Permit
38. 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
39. 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 and USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Sections V.12.g.i and V.12.g.ii, issued June 22, 2005] Federally Enforceable Through Title V Permit
40. 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. [USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.12.g.iii, issued June 22, 2005] Federally Enforceable Through Title V Permit
41. 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
42. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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43. 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
44. 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 and USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.12.c.i, issued June 22, 2005] Federally Enforceable Through Title V Permit
45. Monitoring of the ESP shall comply with the requirements of 40 CFR Part 64. [District Rule 4354 and USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.13.c.iv, issued June 22, 2005] Federally Enforceable Through Title V Permit
46. 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
47. 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
48. 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
49. The permittee shall install, 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
50. 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
51. 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
52. The permittee shall operate and maintain the semi-dry scrubber system to reduce SOx emissions by at least 85%, excluding days when the scrubber inlet's daily average concentration of SO2 is 353 ppmdv or less, in which case the scrubber outlet's daily average concentration of SO2 shall be reduced to at least 53 ppmdv, 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 ppmdv or less. Compliance with the SOx 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. [USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.12.b, issued June 22, 2005] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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53. This unit shall be fired on PUC regulated natural gas or LPG backup fuel only. [District Rule 2201] Federally Enforceable Through Title V Permit
54. 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
55. 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
56. 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
57. 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. [USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section III.aa, issued June 22, 2005] Federally Enforceable Through Title V Permit
58. 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 and USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section III.z, issued June 22, 2005] Federally Enforceable Through Title V Permit
59. 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 and USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section III.y, issued June 22, 2005] Federally Enforceable Through Title V Permit
60. 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
61. 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. [USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.13.b.ii, issued June 22, 2005] Federally Enforceable Through Title V Permit
62. 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
63. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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64. 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
65. 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
66. 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
67. 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
68. 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
69. 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
70. 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. [USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.13.b.iii, issued June 22, 2005] Federally Enforceable Through Title V Permit
71. 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, 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
72. 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
73. 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
74. 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

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

75. 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
76. 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
77. 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
78. 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
79. 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
80. 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. [USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Sections V.14.a and V.14.b, issued June 22, 2005] Federally Enforceable Through Title V Permit
81. 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). [USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section V.14.c, issued June 22, 2005] Federally Enforceable Through Title V Permit
82. Until termination of the Consent Decree, a copy of the operating logs, including all electronic files, for the oxy-fuel furnace required to be maintained by the Consent Decree shall be submitted to the District and EPA on an annual basis on or before March 1 each year pursuant to Section XIV (Notices) of the Consent Decree. [USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Section VII.25.b, issued June 22, 2005] Federally Enforceable Through Title V Permit
83. 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. [USEPA Consent Decree No. 1:05-CV-00516-REC-SMS, Sections V.14.d.i-iv, issued June 22, 2005] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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84. Permittee shall submit an Authority to Construct application for compliance with Section 5.1 Tier 3 NOx limits by June 1, 2012, and be in full compliance with Section 5.1 Tier 3 NOx limits by January 1, 2014. [District Rule 4354] Federally Enforceable Through Title V Permit
85. 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
86. 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
87. 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
88. Compliance with a Sulfuric Acid mist emission limit of 1.0 pound per ton of glass produced shall be demonstrated by a stack test performed using Conditional Test Method 13A of B on this furnace on or before December 31, 2011. Stock testing shall be required to be performed after this initial test only once during the life of the Title V permit renewal. [USEPA Consent Decree 2:10-cv-00121-TSZ, Section IV.8.n, filed 4/22/2010] Federally Enforceable Through Title V Permit
89. 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
90. 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
91. 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
92. 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
93. 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
94. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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95. 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
96. Following the initial inspections, 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
97. 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
98. 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
99. 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-801-3-12

EXPIRATION DATE: 01/31/2015

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 39AVSC9 STYLE II BIN VENT DUST COLLECTORS

PERMIT UNIT REQUIREMENTS

1. 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
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 dust collector 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 dust collector shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Replacement filters numbering at least 10% of the total number of filters in each dust collector shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Each dust collector shall be equipped with a pressure differential gauge to indicate the pressure drop across the filters. 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 dust collectors 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. Controlled PM10 emissions from each of the truck and train unloading conveyor and bucket elevator, Flex Kleen or DCE Dalamatic DU-10H-FS, and MAC Process Model 39AVSC9 Style II 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 dust collector shall be monitored and recorded on each day that the dust collector operates. [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

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. 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
18. 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] Federally Enforceable Through Title V Permit
19. Records of 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
20. 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
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

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

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-801-4-3

EXPIRATION DATE: 01/31/2015

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, 13.2] 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, 9.3.2] 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, 9.3.2] 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, 9.4.2] 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-801-5-11

EXPIRATION DATE: 01/31/2015

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] 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] 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, 9.3.2] 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, 9.3.2] 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, 9.4.2] 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, 13.2] 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, 4.0] 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, 9.3.2] 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-801-6-3

EXPIRATION DATE: 01/31/2015

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, 13.2] 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, 9.3.2] 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, 9.3.2] 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, 9.4.2] Federally Enforceable Through Title V Permit
8. Processing rate shall not exceed 2000 pounds per day. [District NSR Rule] 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 NSR Rule] 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-801-7-4

EXPIRATION DATE: 01/31/2015

EQUIPMENT DESCRIPTION:

375 HP CATERPILLAR, MODEL 3406-DI, DIESEL-FIRED IC ENGINE POWERING A 250 KW EMERGENCY 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 an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 4.2.1 & 5.7.4; 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 Rule 4702, 6.2.3; and 17 CCR 93115] 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, 5.7.2] 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, 5.7.3] Federally Enforceable Through Title V Permit
9. 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 Rule 4702, 6.2.3; and 17 CCR 93115] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

10. 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 Rule 4702,4.2.1; and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. 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] Federally Enforceable Through Title V Permit
12. Effective May 3, 2013, the permittee shall change oil and filter every 500 hours of operation or annually, whichever comes first; and shall all times operate and maintain this engine, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.6603(a) & 63.6605(b)] Federally Enforceable Through Title V Permit
13. Effective May 3, 2013, the permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop their own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e) & 63.6640] Federally Enforceable Through Title V Permit
14. Effective May 3, 2013, the permittee shall 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 63.6625(h)] Federally Enforceable Through Title V Permit
15. Effective May 3, 2013, the permittee shall comply with the applicable reporting and recordkeeping requirements pursuant to to 40 CFR 63.6650, 63.6655, & 63.6660. [40 CFR 63.6650, 63.6655, & 63.6660] 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-801-11-8

EXPIRATION DATE: 01/31/2015

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-801-12-8

EXPIRATION DATE: 01/31/2015

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-801-17-1

EXPIRATION DATE: 01/31/2015

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-801-19-3

EXPIRATION DATE: 01/31/2015

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, 3.1] 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, 5.2] 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, 9.4.2] 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, 13.2] 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-801-20-3

EXPIRATION DATE: 01/31/2015

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, 3.1] 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, 5.2] 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, 9.4.2] 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, 13.2] 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-801-21-3

EXPIRATION DATE: 01/31/2015

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, 3.1] 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, 5.2] 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, 9.4.2] 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, 13.2] 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-801-22-2

EXPIRATION DATE: 01/31/2015

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, 3.1] 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, 5.2] 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, 9.4.2] 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, 13.2] 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-801-23-2

EXPIRATION DATE: 01/31/2015

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, 3.1] 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, 5.2] 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, 9.4.2] 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, 13.2] 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-801-24-2

EXPIRATION DATE: 01/31/2015

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, 3.1] 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, 5.2] 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, 9.4.2] 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, 13.2] 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-801-25-3

EXPIRATION DATE: 01/31/2015

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, 3.1] 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, 5.2] 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, 9.4.2] 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, 13.2] 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-801-26-1

EXPIRATION DATE: 01/31/2015

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, 3.1] 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, 5.2] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this distributor operation. [District Rule 2520, 9.4.2] 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, 9.4.2] 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, 13.2] 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-801-27-1

EXPIRATION DATE: 01/31/2015

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, 3.1] 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, 5.2] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this forehearth operation. [District Rule 2520, 9.4.2] 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, 9.4.2] 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, 13.2] 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-801-28-1

EXPIRATION DATE: 01/31/2015

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, 3.1] 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, 5.2] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this forehearth operation. [District Rule 2520, 9.4.2] 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, 9.4.2] 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, 13.2] 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-801-29-1

EXPIRATION DATE: 01/31/2015

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, 3.1] 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, 5.2] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this forehearth operation. [District Rule 2520, 9.4.2] 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, 9.4.2] 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, 13.2] 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-801-30-1

EXPIRATION DATE: 01/31/2015

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, 3.1] 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, 5.2] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this lehr operation. [District Rule 2520, 9.4.2] 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, 9.4.2] 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, 13.2] 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-801-31-1

EXPIRATION DATE: 01/31/2015

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, 3.1] 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, 5.2] Federally Enforceable Through Title V Permit
6. The permittee shall maintain records of the daily fuel use for this lehr operation. [District Rule 2520, 9.4.2] 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, 9.4.2] 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, 13.2] 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-801-32-5

EXPIRATION DATE: 01/31/2015

EQUIPMENT DESCRIPTION:

3.2 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 Rules 2201 and 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 Rules 2201 and 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-801-33-1

EXPIRATION DATE: 01/31/2015

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, 3.1] 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, 5.2] 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, 9.4.2] 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, 9.4.2] 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, 13.2] 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-801-34-1

EXPIRATION DATE: 01/31/2015

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, 3.1] 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, 5.2] 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, 9.4.2] 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, 9.4.2] 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, 13.2] 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-801-37-2

EXPIRATION DATE: 01/31/2015

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

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 NSR Rule] 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 NSR Rule] Federally Enforceable Through Title V Permit
4. The baghouse shall be maintained and operated according to manufacturer's specifications. [District NSR Rule] Federally Enforceable Through Title V Permit
5. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] 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 NSR Rule] Federally Enforceable Through Title V Permit
7. A spare set of bags shall be maintained on the premises at all times. [District NSR Rule] 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 NSR Rule] Federally Enforceable Through Title V Permit
9. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Differential operating pressure shall be monitored and recorded on each day that the baghouse operates. [District NSR Rule and 40 CFR 64] 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 NSR Rule] 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 NSR Rule] 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 NSR Rule] Federally Enforceable Through Title V Permit
14. The permittee shall maintain daily records of the quantity of glass pulled from furnace #2. [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

15. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District NSR Rule] 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, 4.0] 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, 9.3.2] 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-801-38-2

EXPIRATION DATE: 01/31/2015

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 an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 4.3.1; 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 Rule 4702, 4.3.1 and 17 CCR 93115] 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 NSR Rule and 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-NO_x/bhp-hr, 0.59 g-CO/bhp-hr, or 0.16 g-VOC/bhp-hr. [District NSR Rule, 13 CCR 2423 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 NSR Rule and 4102 and 13 CCR 2423 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 Rule 4702, 6.2.3 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 Rule 4702, 6.2.3 and 17 CCR 93115] Federally Enforceable Through Title V Permit
10. Effective May 3, 2013, the permittee shall change oil and filter every 500 hours of operation or annually, whichever comes first; and shall all times operate and maintain this engine, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.6603(a) & 63.6605(b)] 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. Effective May 3, 2013, the permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop their own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e) & 63.6640] Federally Enforceable Through Title V Permit
12. Effective May 3, 2013, the permittee shall 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 63.6625(h)] Federally Enforceable Through Title V Permit
13. Effective May 3, 2013, the permittee shall comply with the applicable reporting and recordkeeping requirements pursuant to to 40 CFR 63.6650, 63.6655, & 63.6660. [40 CFR 63.6650, 63.6655, & 63.6660] 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-801-39-5

EXPIRATION DATE: 01/31/2015

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-801-41-1

EXPIRATION DATE: 01/31/2015

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 an operational non-resettable elapsed time meter or other APCO approved alternative. [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. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency. [District Rule 2201] 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 and 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: 4.42 g-NO_x/bhp-hr, 0.51 g-CO/bhp-hr, or 0.099 g-VOC/bhp-hr. [District Rule 2201 and 13 CCR 2423 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. 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 and 4102 and 13 CCR 2423 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. 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
9. 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
10. 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 Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
11. 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 Rule 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. 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 Rule 4702] Federally Enforceable Through Title V Permit
13. 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 Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. 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 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
15. Effective May 3, 2013, the permittee shall change oil and filter every 500 hours of operation or annually, whichever comes first; and shall all times operate and maintain this engine, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.6603(a) & 63.6605(b)] Federally Enforceable Through Title V Permit
16. Effective May 3, 2013, the permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop their own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e) & 63.6640] Federally Enforceable Through Title V Permit
17. Effective May 3, 2013, the permittee shall 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 63.6625(h)] Federally Enforceable Through Title V Permit
18. Effective May 3, 2013, the permittee shall comply with the applicable reporting and recordkeeping requirements pursuant to to 40 CFR 63.6650, 63.6655, & 63.6660. [40 CFR 63.6650, 63.6655, & 63.6660] 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-801-42-2

EXPIRATION DATE: 01/31/2015

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 NSR Rule] 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-801-43-7

EXPIRATION DATE: 01/31/2015

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 dust collector 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 dust collector shall be equipped with a pressure differential gauge to indicate the pressure drop across the filters. 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 dust collector 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 dust collector shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The dust collector cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
10. Replacement filters numbering at least 10% of the total number of filters in the dust collector shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
11. Material removed from the dust collector 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 the 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
13. Dust collector filters for the 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. Dust collector filters for the 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] Federally Enforceable Through Title V Permit
15. Differential operating pressure shall be monitored and recorded on each day that the dust collector operates. [District Rule 2201] 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] Federally Enforceable Through Title V Permit
17. Records of all maintenance of the dust collector, 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-801-44-1

EXPIRATION DATE: 01/31/2015

EQUIPMENT DESCRIPTION:

BAG DUMP STATION SERVED BY TWO DONALDSON TD 486 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 NSR Rule] 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 NSR Rule] Federally Enforceable Through Title V Permit
6. The cleaning frequency and duration for each baghouse shall be adjusted to optimize the control efficiency. [District NSR Rule] 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 NSR Rule] 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 NSR Rule] 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 NSR Rule] Federally Enforceable Through Title V Permit
10. Controlled PM10 emissions from the dust collectors shall not exceed 0.0001 gr/scf. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Differential operating pressure for each baghouse shall be monitored and recorded on each day that the baghouse operates. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Records of all maintenance of each baghouse, including all change outs of filter media, shall be maintained. [District NSR Rule] Federally Enforceable Through Title V Permit
13. 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, 4.0] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

14. 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, 13.2] Federally Enforceable Through Title V Permit
15. 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, 9.3.2] Federally Enforceable Through Title V Permit
16. 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, 9.3.2] Federally Enforceable Through Title V Permit
17. 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, 9.3.2] Federally Enforceable Through Title V Permit
18. 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, 9.3.2] Federally Enforceable Through Title V Permit
19. 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, 9.4.2] 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-801-45-0

EXPIRATION DATE: 01/31/2015

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. 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
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. The unit shall only be fired on PUC-regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
5. 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
6. Maximum fuel use of the unit shall not exceed 170,000 scf per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. 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
8. 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
9. Records of daily and annual natural gas usage of the unit shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
10. 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-801-46-0

EXPIRATION DATE: 01/31/2015

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. 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
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. The unit shall only be fired on PUC-regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
5. 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
6. Maximum fuel use of the unit shall not exceed 170,000 scf per day. [District Rule 2201] Federally Enforceable Through Title V Permit
7. 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
8. Emissions from the natural gas-fired unit shall not exceed any of the following limits: 35 ppmvd NOx @ 3% O2 or 0.042 lb-NOx/MMBtu, 0.00285 lb-SOx/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
9. Records of daily and annual natural gas usage of the unit shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
10. 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-801-48-0

EXPIRATION DATE: 01/31/2015

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

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

ATTACHMENT C

Detailed Facility List

Detailed Facility Report

For Facility=801 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

ARDAGH GLASS INC 24441 AVENUE 12 & ROAD 24 1/2 MADERA, CA 93637		FAC # C 801 STATUS: A TELEPHONE:		TYPE: TitleV TOXIC ID: 40152		EXPIRE ON: 01/31/2015 AREA: 1/ INSP. DATE: 03/17	
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
C-801-1-20	75,000 kBtu/hr furnace	3020-02 H	1	1,128.00	1,128.00	A	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)
C-801-2-13	85,000 kBtu/hr furnace	3020-02 H	1	1,128.00	1,128.00	A	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)
C-801-3-12	544,349 gallons	3020-05 F	1	330.00	330.00	A	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 39AVSC9 STYLE II BIN VENT DUST COLLECTORS
C-801-4-3	47 HP	3020-03 B	1	129.00	129.00	A	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.
C-801-5-11	544,349 gallons	3020-05 F	1	330.00	330.00	A	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 #16P-JD6 BAGHOUSE SERVING SILO #3 (PELLETIZED ESP DUST)
C-801-6-3	7.25 HP	3020-01 A	1	97.00	97.00	A	7.25 HP TORIT MODEL SDF-4 DUST COLLECTOR SERVING MINOR INGREDIENTS WEIGH SCALE, MIXER, AND MIXER DUMP HOOD.
C-801-7-4	375 hp IC engine	3020-10 C	1	264.00	264.00	A	375 HP CATERPILLAR, MODEL 3406-DI, DIESEL-FIRED IC ENGINE POWERING A 250 KW EMERGENCY GENERATOR

Detailed Facility Report

For Facility=801 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	TOTAL FEE	PERMIT STATUS	EQUIPMENT DESCRIPTION
C-801-11-8	Miscellaneous	3020-06	1	116.00	116.00	A	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)
C-801-12-8	Miscellaneous	3020-06	1	116.00	116.00	A	HOT END BOTTLE COATING OPERATION INCLUDING FIVE COATING LINES (THREE FOR FURNACE #1 AND TWO FOR FURNACE #2) WITH FIVE COATING UNITS
C-801-17-1	7.5 HP	3020-01 A	1	97.00	97.00	A	CONFINED ABRASIVE BLASTING OPERATION WITH A 600 LB EMPIRE ABRASIVE EQUIPMENT CO MODEL PC-6060-RS BLASTING POT SERVED BY EM2-4 BAGHOUSE
C-801-19-3	10,000 kBtu/hr burner	3020-02 G	1	893.00	893.00	A	10 MMBTU/HR NATURAL GAS-FIRED DISTRIBUTOR FOR FURNACE #2
C-801-20-3	7,000 kBtu/hr burners	3020-02 G	1	893.00	893.00	A	7.0 MMBTU/HR NATURAL GAS-FIRED LEHR SHOP #21#22 (FOR FURNACE #2)
C-801-21-3	12,000 kBtu/hr burners	3020-02 G	1	893.00	893.00	A	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)
C-801-22-2	3,000 kBtu/hr burner	3020-02 F	1	666.00	666.00	A	3.0 MMBTU/HR NATURAL GAS-FIRED GLASS FOREHEARTH (FOR FURNACE #2)
C-801-23-2	3,000 kBtu/hr burners	3020-02 F	1	666.00	666.00	A	3.0 MMBTU/HR NATURAL GAS-FIRED GLASS FOREHEARTH (FOR FURNACE #2)
C-801-24-2	4,000 kBtu/hr burners	3020-02 F	1	666.00	666.00	A	4.0 MMBTU/HR NATURAL GAS-FIRED GLASS FOREHEARTH (FOR FURNACE #2)
C-801-25-3	3,000 kBtu/hr burners	3020-02 F	1	666.00	666.00	A	3.0 MMBTU/HR NATURAL GAS-FIRED GLASS FOREHEARTH #24 (FOR FURNACE #2)
C-801-26-1	9,900 kBtu/hr burners	3020-02 G	1	893.00	893.00	A	9.9 MMBTU/HR NATURAL GAS-FIRED DISTRIBUTOR FOR FURNACE #1
C-801-27-1	4,300 kBtu/hr burners	3020-02 F	1	666.00	666.00	A	4.3 MMBTU/HR NATURAL GAS-FIRED GLASS FOREHEARTH #11 FOR FURNACE #1
C-801-28-1	2,700 kBtu/hr burners	3020-02 F	1	666.00	666.00	A	2.7 MMBTU/HR NATURAL GAS-FIRED GLASS FOREHEARTH #12 FOR FURNACE #1
C-801-29-1	4,300 kBtu/hr burners	3020-02 F	1	666.00	666.00	A	4.3 MMBTU/HR NATURAL GAS-FIRED GLASS FOREHEARTH #13 FOR FURNACE #1
C-801-30-1	5,000 kBtu/hr burners	3020-02 G	1	893.00	893.00	A	5.0 MMBTU/HR NATURAL GAS-FIRED LEHR SHOP #11 FOR FURNACE #1
C-801-31-1	5,000 kBtu/hr burners	3020-02 G	1	893.00	893.00	A	5.0 MMBTU/HR NATURAL GAS-FIRED LEHR SHOP #12 FOR FURNACE #1

Detailed Facility Report

For Facility=801 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	TOTAL FEE	PERMIT STATUS	EQUIPMENT DESCRIPTION
C-801-32-5	5,000 kBtu/hr burners	3020-02 G	1	893.00	893.00	A	3.2 MMBTU/HR NATURAL GAS-FIRED LEHR SHOP #13 FOR FURNACE #1
C-801-33-1	3,600 kBtu/hr burners	3020-02 F	1	666.00	666.00	A	3.6 MMBTU/HR NATURAL GAS-FIRED FIRE POLISHING OPERATION #11 FOR FURNACE #1
C-801-34-1	3,600 kBtu/hr burners	3020-02 F	1	666.00	666.00	A	3.6 MMBTU/HR NATURAL GAS-FIRED FIRE POLISHING OPERATION #12 FOR FURNACE #1
C-801-37-2	5,760 gallon storage	3020-05 B	1	103.00	103.00	A	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
C-801-38-2	240 bhp IC engine	3020-10 C	1	264.00	264.00	A	240 BHP JOHN DEERE MODEL PE6068HF120 TIER 2 CERTIFIED DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP
C-801-39-5	11,200 gallons	3020-05 B	1	103.00	103.00	A	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
C-801-41-1	1,490 bhp IC engine	3020-10 F	1	820.00	820.00	A	1,490 BHP CUMMINS MODEL #QT30-G5 NR2 DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING AN ELECTRICAL GENERATOR
C-801-42-2	2 hp electric motor	3020-01 A	1	97.00	97.00	A	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
C-801-43-7	20 hp	3020-01 A	1	97.00	97.00	A	NORTH SIDE CONVEYOR ACCEPTING TRANSFER OF BATCH AND CULLET TO FURNACE #1 AND CULLET WEIGHING CONVEYOR SERVED BY MAC PROCESS MODEL 120LST81 DUST COLLECTOR
C-801-44-1	9 hp	3020-01 A	1	97.00	97.00	A	BAG DUMP STATION SERVED BY TWO DONALDSON TD 486 DUST COLLECTORS
C-801-45-0	10 MMBtu/hr	3020-02 G	1	893.00	893.00	A	10 MMBTU/HR NATURAL GAS-FIRED PORTABLE REFRACTORY CURING EQUIPMENT WITH A HOTWORK SJB LOW NOX BURNER AND COMBUSTION AIR BLOWER
C-801-46-0	10 MMBtu/hr	3020-02 G	1	893.00	893.00	A	10 MMBTU/HR NATURAL GAS-FIRED PORTABLE REFRACTORY CURING EQUIPMENT WITH A HOTWORK SJB LOW NOX BURNER AND COMBUSTION AIR BLOWER
C-801-48-0	0.8 MMBtu/hr	3020-02 D	1	345.00	345.00	A	PORTABLE 0.8 MMBTU/HR PROPANE-FIRED FOREHEARTH HEATING SYSTEM CONSISTING OF TWO 0.4 MMBTU/HR BURNERS

ATTACHMENT D

Facility Comments and District Response

Ardagh Glass Inc. submitted comments to the District regarding the proposed Title V Permit renewal for their facility (C-801) under Project C-1142273. A copy of the March 20, 2016 letter containing these comments is available at the District.

Ardagh Glass, Inc's comments and the District's responses to those comments follow:

Comment 1:

Change the Responsible Official on the permit from Mirko Muller to Darryl Shaffer.

District Response:

The Responsible Official will be updated as requested.

Comment 2:

Permit C-801-0-4, Conditions 44 and 45 – please delete these. The past allegations referenced in these conditions were settled in a Consent Decree that has been terminated.

District Response:

These conditions have been removed.

Comment 3:

C-801-1-21 Equipment Description – Delete reference to “blower air staging (BAS) system”. This was part of the regenerative furnace, and was removed during the conversion of Furnace 1 to oxy-fuel.

District Response:

Removing the BAS system was not specifically listed as a modification on ATC C-801-1-17 (Project C-1132566) that authorizes the conversion of Furnace #1 to oxy-fuel. In addition the ATC Application proposal submitted for project C-1132566 did not mention the removal of the BAS system. There were also no corrections proposed during the applicant review period of this project or the minor modification project (Project C-1132561). Therefore, an ATC application must be submitted to properly evaluate this change. No modification to the equipment description of the draft PTO #C-801-1-21 was made.

Comment 4:

C-801-1-21, Conditions 20, 23, and 24; and C-801-2-14, Conditions 32, 33, and 35 – Multiple comments:

- a. Clarifying language would be helpful so it is clear that either furnace is in idling, start-up, or shutdown, the stated lb/ton emission limits do not apply. The furnaces are controlled by a common scrubber and EP, and monitoring is performed in the combined exhaust stack, so it would not be possible to determine compliance with limits for only one of the two furnaces.
- b. The permit for Furnace 2 (2-14) has an exemption from lb/ton limits for NOx, CO, VOC and SOx during periods of idling, transition, start up and shutdown. The permit for Furnace 1 (1-21) only has an exemption during idling, startup, and shutdown. We request that the exemption during transition periods be added to the permit for PM limit for Furnace 2, and for all pollutants listed here for Furnace 1.

District Response:

- a. The assumption that the lb/ton limit does not apply when either furnace is idling, in startup, shutdown, or transition is not correct. If one of the two furnaces is idling, starting up, shutting down, or transitioning, the other furnace will still be required to meet the emissions requirements on the permit. However, after reviewing the continuous emissions monitoring and annual testing requirements the District feels it is not necessary to modify the conditions as proposed to show compliance with permit requirements. The specifics are discussed in detail below.

During annual source testing the facility must show compliance with Conditions 20, 23 and 24 on permit C-801-1-21; and Conditions 32, 33 and 35 on permit C-801-2-14. Per Condition 42 on C-801-1-24 and Condition 64 on C-801-2-14 source testing is to be conducted when the furnace is operating at conditions representative of normal operation and pulling at least 60% of the permitted glass. Idling, startup, shut down and transitional periods are not considered representative of normal operation. Given the time frame of when source testing is required, Conditions 39 and 40 on C-801-1-24, and Conditions 61 and 62 on C-801-2-14, of once every 12 to 18 months, the District feels it is sufficient time to run a source test when both furnaces are operating in a manner representative of normal operation. Therefore, modifications to the permit conditions are not necessary to show compliance with annual source testing.

On a daily basis your facility is only required to show compliance with NOx and CO emission limits. Daily emissions can be shown with the CEMS on Furnace #1; and CERMS for NOx and CEMS for CO on Furnace #2. Both of the units require the reading to be taken prior to the junction where the exhaust from Furnace #1 and Furnace #2 meet and are combined into one. Each unit is also required to have a CEMS for SOx. However this system is meant to show compliance with the

scrubber efficiency as required in Condition 36 on PTO C-801-1-24 and Condition 51 on C-801-2-14. Hence the SOx readings are required to be taken on the common duct at the inlet of the scrubber and after the control equipment (per Condition 7 on PTO C-801-1-24 and Condition 16 on PTO C-801-2-14). During source testing it is shown that the lb/ton for SOx, PM10, and VOC are met when the emissions limits for NOx and CO are met. By showing this relationship it is assumed that as long as CEMS/CERMS show the NOx and CO emissions limits are met the other pollutants will meet compliance. Therefore, it is not necessary to modify the existing conditions to show compliance with daily emissions limits.

- b. The transition period, included in conditions 33 and 35 on PTO #C-801-2-14, originated as a requirement of the June 22, 2005, U.S. EPA Consent Decree. This Consent Decree condition only applied to unit C-801-2. Adding the exemption from emissions limit during transitional period to PTO C-801-1 is not an administrative change and would require an ATC application. Hence it is not included on the permit requirements of C-801-1.

Comment 5:

C-801-2-14, Condition 11 – this condition states the scheduled maintenance of the furnace emission control systems may only occur during Furnace 2 idling, or after shutdown of Furnace 2. This condition was originally part of a June 22, 2005 U.S. EPA Consent Decree. At our request, the District removed references to this Consent Decree from this permit, which we appreciate. While other conditions from the Consent Decree may remain in the permit (using District rules as a source of authority), we request that this condition should be deleted. There is no corresponding requirements in the rule cited as the new basis for this condition (Rule 1080). Removing this restriction would give the facility more flexibility in performing maintenance activities.

District Response:

This conditions originated in Section 12.g.v of the above mentioned Consent Decree. Although the consent decree has been terminated all the requirements under Section 12 were to be met for the life of the oxy-fuel furnace (USA EPA Consent Decree dated June 22, 2005, Page 9, Line 22). Therefore, the District has retained this requirement.

Comment 6:

C-801-2-14, Condition 35 – the permits for Furnace 1 and Furnace 2 each contain a NOx emission limit of 1.3 lb/ton. The permit for Furnace 1 requires compliance on a 30-day average, while the permit for Furnace 2 requires compliance on a 24-hour average. We request that the averaging period for the Furnace 2 limit should be changed so the two furnaces have consistent limits.

District Response:

The 24-hour averaging period for NOx emission of 1.3 lb/ton on the permit requirements of Furnace 2 originated in Sections 12.a.i of the Consent Decree dated June 22, 2005. The 30-day averaging period of Furnace 1 is a District Rule 4352 requirement. As previously discussed, the consent decree requirements of Section 12 are applicable throughout the life of the oxy-fueled furnace. Since, changing the averaging period of Furnace 2 is not an administrative change, Condition 35 requiring a 24-averaging block has been retained on the permit.

Comment 7:

Comment for the following newly added conditions:

- C-801-3-13, Conditions 22 and 24
- C-801-5-12, Conditions 21 and 22
- C-801-37-3, Condition 18 and 19

Please remove new requirements to perform daily pressure drop reading and Method 22 visible emission checks. CAM is not applicable to these sources, as discussed below.

CAM Applicability Discussion

The District's Title V Permit Renewal Evaluation includes an evaluation of CAM applicability. We disagree with the approach taken to evaluate pre-controlled PM10 emissions for raw material handling sources controlled by dust collectors (sources 3, 5, 37, 39, 43, and 44). In each case, the District calculates pre-controlled emissions by first calculating controlled emissions using a grain loading rate and exhaust flow. Then, a control efficiency of 99.9% is applied to determine pre-controlled emissions.

This method results in abnormally high calculated emissions. For example, the pre-controlled PM10 emissions for source C-801-37 are calculated to be 4,254,000 lb/year, which is equivalent to 2,127 tons/year. Even when calculating worst case potential to emit for this raw material handling operation. This seems impossibly high.

We believe a more appropriate method to calculate pre-controlled emissions for raw material handling sources would be to use the method in SAEPA AP-42, Chapter 13.2.2 for aggregate material handling. This method allows a determination of emissions per transfer point or drop point (e.g., dust generated by the transfer of material from one conveyor to another). Assuming a worst-case of 10 material transfers per source, the pre-controlled emissions for each raw material handling source would be as follows.

$$E = k (0.0032) \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{U}{2}\right)^{1.4}}$$

	Sand	Units
k, particle size multiplier for PM10	0.35	--
K, particle size multiplier for PM 2.5	0.053	--
U, mean wind speed	7.5	mph
M, material moisture content	7.4	%
PM10 EF (uncontrolled)	0.0003	lb/ton

Facility glass pull rate limit	370,380	tons/year
Raw material usage for pull limit	407,418	tons/year
Number of product transfers/drops	10	
Uncontrolled PM10 emissions	1,238	lb/year

District Response:

The district feels the proposed method of calculating uncontrolled emissions is not representative of the permitted operations. In the table below we have calculated the control efficiency for each permit unit assuming your worst-case assumption for uncontrolled emissions of 1,238 lb/year. As you can see the control efficiency of the baghouses serving permit units C-801-3 and -5 are much lower than the required control efficiency of 99.9%. For unit C-801-37 the proposed controlled emissions are greater than the uncontrolled resulting in no control from the baghouses. Controlled emissions for each operation would have to be 1.2 lb-PM10/day (1,238 lb/day x (1 – 99.9%)) or less for each operation to show 99.9% compliance. For these reasons the District does not believe the proposed uncontrolled emissions are appropriate for determining CAM applicability. Therefore, the Districts CAM calculations will remain the basis to determine if CAM is triggered for units C-801-3, -5, and -37.

Calculations

The controlled emissions were taken from the calculations done in Section VIII.E of the Title V Renewal Evaluation.

The control efficiency for the baghouses serving each operation is calculated as follows and summarized in the table below,

$$\text{Control Efficiency (\%)} = [1 - \text{Controlled Emissions/Uncontrolled Emissions}] \times 100$$

Unit C-801-3-13:

	Controlled Emissions (lb/year)	Uncontrolled Emissions (lb/year)	Control Efficiency
Dust Collector			
Donaldson MBT 81-10	48		
Donaldson Torit Downflow Model #DFO 2-16	533		
Donaldson Torit Model #100 PJD-8	255		
Two DCE Dalamatic DU-10H-FS	6		
	842	1,238	32.0%

Unit C-801-5-12:

	Controlled Emissions (lb/year)	Uncontrolled Emissions (lb/year)	Control Efficiency
Dust Collector			
Six Donaldson Torit TD-486 Dust Collector	315		
Donaldson Torit TD-486 Baghouse	9		
Two Donaldson Torit Power Core (CPC-3)	18		
Donaldson Torit #16PJD6	26		
	368	1,238	70.3%

Unit C-801-37-3:

	Controlled Emissions (lb/year)	Uncontrolled Emissions (lb/year)	Control Efficiency
Dust Collector			
Six Donaldson Torit TD-486 Dust Collector	4,254	1,238	-243.6%

Comment 8:

C-801-11-9, Condition 4 – we went through a permit process to change the PM10 emission factor for mold swab, but the draft Title V permit changes it back to the old value. The PM10 factor should be 0.19 lb/ton glass (consistent with permit 11-8) and not 0.074 lb/ton glass.

District Response:

The PM10 emission factor in condition 4 of draft PTO #C-801-11-9 was revised to reflect the correct emission factor of 0.19 lb/ton.

Comment 9:

C-801-11-9, Condition 10 and C-801-12-9, Condition 8 – we request that these permits allow compliance with daily recordkeeping requirements using monthly data, which would be used to calculate a daily average usage rate for each source.

District Response:

As previously discussed under the District's Response to Comment 6, the change in averaging period requires an ATC application to ensure all NSR implications are properly addressed. Therefore, the proposed modifications were not made.

Comment 10:

C-801-12-9, Condition 4 – we went through a permit process to change the PM10 emission factor for hot end bottle coating, but the draft Title V permit changes it back to the old value. The PM10 factor should be 0.024 lb/ton glass (consistent with permit -12-8) rather than 0.018 lb/ton glass.

District Response:

The PM10 emission factor in condition 4 of draft PTO #C-801-12-9 was revised to reflect the correct emission factor of 0.024 lb/ton glass.