



JUN 26 2013

Mr. Daniel Armagost
Owens-Brockway Glass Container Inc.
14700 W Schulte Rd
Tracy, CA 95376

Re: Notice of Preliminary Decision – Title V Permit Renewal
District Facility # N-593
Project # N-1120195

Dear Mr. Armagost:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Owens-Brockway Glass Container Inc. at 14700 W Schulte Rd in Tracy, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. After addressing all comments made during the 30-day public notice and the 45-day EPA comment periods, the District intends to issue the renewed Federally Mandated Operating Permit. Please submit your written comments on this project within the 30-day public comment period, as specified in the enclosed public notice.

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

Sincerely,


David Warner
Director of Permit Services

Enclosures

cc: Mike Tollstrup, 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

Newspaper notice for publication in Stockton Record and for posting on valleyair.org

**NOTICE OF PRELIMINARY DECISION
FOR THE PROPOSED RENEWAL OF
THE FEDERALLY MANDATED OPERATING PERMIT**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District solicits public comment on the proposed renewal of the Federally Mandated Operating Permit to Owens-Brockway Glass Container Inc. at 14700 W Schulte Rd in Tracy, California.

The District's analysis of the legal and factual basis for this proposed action, project #N-1120195, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and at any District office. There are no emission changes associated with this proposed action. This will be the public's only opportunity to comment on the specific conditions of the proposed renewal of the Federally Mandated Operating permit. If requested, the District will hold a public hearing regarding issuance of this renewed permit. For additional information, please contact the District at (209) 557-6400. Written comments on the proposed initial permit must be submitted by July 29, 2013 to **DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 4800 ENTERPRISE WAY, MODESTO, CA 95356-0244.**

SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT

Proposed Title V Permit Renewal Evaluation Owens-Brockway N-593

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TITLE V PERMIT RENEWAL EVALUATION
Container Glass Manufacturing Facility

Engineer: James Harader
Date: May 6, 2013

Facility Number: N-593
Facility Name: Owens-Brockway Glass Container Inc.
Mailing Address: 14700 W. Schulte Road
Tracy, CA 95376-8628

Contact Name: Daniel G. Armagost
Phone: (209) 836-8296

Responsible Official: Daniel G. Armagost
Title: Plant Manager

Project # : N-1120195
Deemed Complete: February 22, 2012

I. PROPOSAL

Owens-Brockway Glass Container Inc. was previously issued a Title V permit. As required by District Rule 2520, the applicant is requesting a permit renewal. The existing Title V permit will be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the issuance of the initial Title V permit.

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

This container glass manufacturing facility is located at 14700 W Schulte Road in Tracy, CA.

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 does not propose to use any model general permit templates.

V. SCOPE OF EPA AND PUBLIC REVIEW

The applicant is not requesting to use any model general permit templates. Therefore, all federally enforceable conditions in this Title V permit are subject to EPA and public review.

VI. FEDERALLY ENFORCEABLE REQUIREMENTS

A. Rules Updated

- District Rule 2020, Exemptions
(amended September 21, 2006 ⇒ amended August 18, 2011)
- District Rule 2201, New and Modified Stationary Source Review Rule
(amended April 21, 2011)
- District Rule 4354, Glass Melting Furnaces
(amended August 17, 2006 ⇒ amended May 19, 2011)
- District Rule 4601, Architectural Coatings
(amended October 31, 2001 ⇒ amended December 17, 2009)
- District Rule 4702, Internal Combustion Engines – Phase 2
(amended August 21, 2003 ⇒ amended August 18, 2011)
- District Rule 8011, General Requirements
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8021, Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities
(adopted November 15, 2001 ⇒ amended August 19, 2004)

- District Rule 8031, Bulk Materials
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8041, Carryout and Trackout
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8051, Open Areas
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8061, Paved and Unpaved Roads
(adopted November 15, 2001 ⇒ amended August 19, 2004)
- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas
(adopted November 15, 2001 ⇒ amended September 16, 2004)
- 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners
(amended June 18, 2008)
- 40 CFR Part 82, Subpart F, Recycling and Emissions Reduction
(amended June 18, 2008)
- 40 CFR Part 64, Compliance Assurance Monitoring (CAM)

B. Rules Removed

No rules have been removed.

C. Rules Added

- District Rule 2410, Prevention of Significant Deterioration
(Adopted 6/16/11, Effective November 26, 2012)
- 40 CFR Part 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
(Adopted July 11, 2006, last amended January 30, 2013)
- 40 CFR Part 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
(Adopted June 15, 2004, last amended January 30, 2013)

- 40 CFR Part 63, Subpart SSSSSS, National Emission Standards for Hazardous Air Pollutants from Glass Manufacturing Area Sources (adopted December 26, 2007)

D. 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 1100, Equipment Breakdown (amended December 17, 1992)
- District Rule 2010, Permits Required (amended December 17, 1992)
- District Rule 2031, Transfer of Permits (amended December 17, 1992)
- District Rule 2040, Applications (amended December 17, 1992)
- District Rule 2070, Standards for Granting Applications (amended December 17, 1992)
- District Rule 2080, Conditional Approval (amended December 17, 1992)
- District Rule 2520, Federally Mandated Operating Permits (amended June 21, 2001)
- District Rule 4101, Visible Emissions (amended February 17, 2005)
- District Rule 4201, Particulate Matter Concentration (amended December 17, 1992)

- District Rule 4301, Fuel Burning Equipment
(amended December 17, 1992)
- District Rule 4202, Particulate Matter - Emission Rate
(amended December 17, 1992)
- District Rule 4701, Internal Combustion Engines- Phase 1
(amended August 21, 2003)
- District Rule 4801, Sulfur Compounds
(amended December 17, 1992)
- 40 CFR Part 60, Subpart CC, Standards of Performance for Glass Manufacturing Plants
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos
- 40 CFR Part 61, Subpart N, National Emission Standard for Inorganic Arsenic Emissions from Glass Manufacturing Plants
- 40 CFR Part 68, Chemical Accident Prevention Provisions
- 40 CFR Part 82, Protection of Stratospheric Ozone

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

No rules have been added.

B. Rules Not Updated

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

C. Rules Updated

- 17 CCR §93115, Air Toxic Control Measure for Stationary Compression Ignition Engines
 (Amended May 19, 2011)¹

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.

A. District Rule 2020 - Exemptions

District Rule 2020 lists equipment which is specifically exempt from obtaining permits and specifies recordkeeping requirements to verify such exemptions.

Current District Rule 2020 has been submitted to the EPA to replace SIP approved December 20, 2007 version of Rule 2020. The comparison of the current District Rule and the previous version, presented below in Table 2. indicate that the current District Rule is at least as stringent as the previous SIP approved version of this rule.

Table 2. Comparison of District Rule 2020 (12/20/07) to Rule 2020 (8/18/11)

REQUIREMENTS	District Rule 2020 (12/20/07)	District Rule 2020 (8/18/11)
An ATC or PTO is not required for listed exempt equipment.	X	X
Conditions are stated under which listed exempt equipment will require an ATC or PTO.	X	X
Record keeping is required to verify and maintain exemption, when the exemption is based on a maximum daily limitation.	X	X
A compliance schedule is stated for equipment which loses exemption from permitting, necessitating submission of a PTO application.	X	X

¹ It has been determined that the amendments to the California Air Toxic Control Measure (ATCM) for Stationary Compression Ignition engines regulation will not require any changes to this facilities current Permits to Operate to demonstrate compliance with the ATCM requirements. Therefore, no further discussion of this non-federally enforceable rule is necessary and compliance is expected.

- a. N-593-0-4: Facility-Wide Requirements
 - Condition #4 of the requirements for the proposed permit assures compliance with this rule.

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

District Rule 2201 was amended on September 21, 2006, after this facility's Title V permit was last renewed. 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.

Since this project does not constitute a modification, the updated requirements of this rule are not applicable to this project.

C. District Rule 2410- Federally Mandated Operating Permits

This rule was added on June 16, 2011 and became effective on November 26, 2012. This TV renewal is not a PSD Modification; therefore, it is not necessary to update the permits to address this rule.

D. District Rule 2520- Federally Mandated Operating Permits

No changes to this Rule have occurred since issuance of the TV permit; however, greenhouse gas emissions will be addressed under Rule 2520 during this renewal.

Greenhouse Gas Discussion

There are no federally applicable Greenhouse Gas (GHG) requirements for this source. It should be noted that the Mandatory Greenhouse Gas Reporting rule (40CFR Part 98) is not included in the definition of an applicable requirement within Title V (per 40CFR 71.2). Therefore, there will be no further discussion of GHG in this evaluation.

E. District Rule 4354 – Glass Melting Furnaces

This rule is applicable to any glass melting furnace. Each of the three glass melting furnaces (N-593-10, '-12, and '-13) at this facility are subject to District Rule 4354 requirements. The following table demonstrates that the proposed TV permit satisfies District Rule 4354 requirements.

Rule 4354 Requirement	Method of Compliance														
<p>Section 5.1.1 Table 1 lists the Tier 2, Tier 3, and Tier 4 NOx limits for glass furnaces. The following table shows the Tier 2 and Tier 3 NOx limits for Container Glass, and there is no Tier 4 NOx limit for container glass.</p> <table border="1" data-bbox="201 1060 964 1297"> <thead> <tr> <th colspan="3">Rule 4354 Tier 2 and Tier 3 NOx Emission Limits</th> </tr> <tr> <th rowspan="2">Tier</th> <th colspan="2">NOx Limit</th> </tr> <tr> <th>30-day Average</th> <th>24-hr Average</th> </tr> </thead> <tbody> <tr> <td>Tier 2</td> <td>N/A</td> <td>4.0</td> </tr> <tr> <td>Tier 3</td> <td>1.5</td> <td>N/A</td> </tr> </tbody> </table>	Rule 4354 Tier 2 and Tier 3 NOx Emission Limits			Tier	NOx Limit		30-day Average	24-hr Average	Tier 2	N/A	4.0	Tier 3	1.5	N/A	<p>The Tier 3 limit for container glass doesn't become effective until January 1, 2014 and the facility has been issued an ATC to come into compliance with that limit. The facility is currently required to be in compliance with the Tier 2 NOx limit.</p> <p>N-593-10-15: Permit condition #20 ensures compliance with this requirement.</p> <p>N-593-12-13: Permit condition #20 ensures compliance with this requirement.</p> <p>N-593-13-11: Permit condition #20 ensures compliance with this requirement.</p>
Rule 4354 Tier 2 and Tier 3 NOx Emission Limits															
Tier	NOx Limit														
	30-day Average	24-hr Average													
Tier 2	N/A	4.0													
Tier 3	1.5	N/A													
<p>Section 5.2.1 Table 2 includes CO and VOC emission limits for glass furnaces. The following table includes the CO and VOC emission limits for oxygen assist and 100% air-fired furnaces:</p> <table border="1" data-bbox="196 1495 993 1728"> <thead> <tr> <th colspan="3">Rule 4354 CO and VOC Emission Limits (ppmv limits referenced to 8% O₂)</th> </tr> <tr> <th>Tier</th> <th>CO Limit</th> <th>VOC Limit</th> </tr> </thead> <tbody> <tr> <td>100% Air Fired Furnace</td> <td>300 ppmvd</td> <td>20 ppmvd</td> </tr> <tr> <td>Oxygen-assisted or Oxy-fuel furnace</td> <td>1.0 lb/ton of glass produced</td> <td>0.4 0.3 lb/ton of glass produced</td> </tr> </tbody> </table>	Rule 4354 CO and VOC Emission Limits (ppmv limits referenced to 8% O ₂)			Tier	CO Limit	VOC Limit	100% Air Fired Furnace	300 ppmvd	20 ppmvd	Oxygen-assisted or Oxy-fuel furnace	1.0 lb/ton of glass produced	0.4 0.3 lb/ton of glass produced	<p>N-593-10-15: Permit conditions #22 and #23 ensure compliance with this requirement.</p> <p>N-593-12-13: Permit conditions #22 and #23 ensure compliance with this requirement.</p> <p>N-593-13-11: Permit conditions #22 and #23 ensure compliance with this requirement.</p>		
Rule 4354 CO and VOC Emission Limits (ppmv limits referenced to 8% O ₂)															
Tier	CO Limit	VOC Limit													
100% Air Fired Furnace	300 ppmvd	20 ppmvd													
Oxygen-assisted or Oxy-fuel furnace	1.0 lb/ton of glass produced	0.4 0.3 lb/ton of glass produced													

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Rule 4354 Requirement	Method of Compliance								
<p>Section 5.3 includes the following SOx emission limits, effective on and after January 1, 2011:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2" style="text-align: center;">Rule 4354 SOx Emission Limits (ppmv limits referenced to 8% O₂)</th> </tr> <tr> <th style="text-align: center;">Tier</th> <th style="text-align: center;">SOx Emission Limit</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Oxy-fuel furnaces and ≥ 25% of total cullet is mixed color cullet</td> <td style="text-align: center;">1.1 lb/ton 1.2 (rolling 30-day average)</td> </tr> <tr> <td style="text-align: center;">All other container glass furnaces</td> <td style="text-align: center;">0.9 lb/ton (rolling 30-day average)</td> </tr> </tbody> </table>	Rule 4354 SOx Emission Limits (ppmv limits referenced to 8% O ₂)		Tier	SOx Emission Limit	Oxy-fuel furnaces and ≥ 25% of total cullet is mixed color cullet	1.1 lb/ton 1.2 (rolling 30-day average)	All other container glass furnaces	0.9 lb/ton (rolling 30-day average)	<p>N-593-10-15: Permit condition #21 ensures compliance with this requirement.</p> <p>N-593-12-13: Permit condition #21 ensures compliance with this requirement.</p> <p>N-593-13-11: Permit condition #21 ensures compliance with this requirement.</p>
Rule 4354 SOx Emission Limits (ppmv limits referenced to 8% O ₂)									
Tier	SOx Emission Limit								
Oxy-fuel furnaces and ≥ 25% of total cullet is mixed color cullet	1.1 lb/ton 1.2 (rolling 30-day average)								
All other container glass furnaces	0.9 lb/ton (rolling 30-day average)								
<p>Section 5.4 includes the following PM10 emission limit for container glass furnaces:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2" style="text-align: center;">Rule 4354 PM10 Emission Limit</th> </tr> <tr> <th style="text-align: center;">Type of Glass Produced</th> <th style="text-align: center;">PM10 Emission Limit</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Container Glass</td> <td style="text-align: center;">0.5 lb/ton of glass produced</td> </tr> </tbody> </table>	Rule 4354 PM10 Emission Limit		Type of Glass Produced	PM10 Emission Limit	Container Glass	0.5 lb/ton of glass produced	<p>N-593-10-15: Permit condition #24 ensures compliance with this requirement.</p> <p>N-593-12-13: Permit condition #24 ensures compliance with this requirement.</p> <p>N-593-13-11: Permit condition #24 ensures compliance with this requirement.</p>		
Rule 4354 PM10 Emission Limit									
Type of Glass Produced	PM10 Emission Limit								
Container Glass	0.5 lb/ton of glass produced								
<p>Section 5.5.1 through 5.5.7 list startup requirements.</p>	<p>N-593-10-15: Permit condition #9 ensures compliance with this requirement.</p> <p>N-593-12-13: Permit condition #9 ensures compliance with this requirement.</p> <p>N-593-13-11: Permit condition #9 ensures compliance with this requirement.</p>								
<p>Section 5.6 includes the following shutdown requirements:</p> <ol style="list-style-type: none"> 1. The duration of shutdown, as measured from the time the furnace operations drop below the idle threshold specified in Section 3.17 to when all emissions from the furnace cease, shall not exceed 20 days. 2. The emission control system shall be in operation whenever technologically feasible during shutdown to minimize emissions. 3. Notifications shall be performed and records kept in accordance with Section 6.7. 	<p>N-593-10-15: Permit condition #10 ensures compliance with this requirement.</p> <p>N-593-12-13: Permit condition #10 ensures compliance with this requirement.</p> <p>N-593-13-11: Permit condition #10 ensures compliance with this requirement.</p>								

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Rule 4354 Requirement	Method of Compliance
<p>Section 5.7.1 states that the emission control system shall be in operation whenever technologically feasible during idling to minimize emissions. Section 5.7.2 provides an equation for determining the NO_x, CO, VOC, SO_x, and PM₁₀ emission limit (lb/day) when idling. Section 5.7.3 states that notifications shall be performed and records kept in accordance with Section 6.7.</p>	<p>N-593-10-15: Permit conditions #12 and #13 ensure compliance with this requirement.</p> <p>N-593-12-13: Permit conditions #12 and #13 ensure compliance with this requirement.</p> <p>N-593-13-11: Permit conditions #12 and #13 ensure compliance with this requirement.</p>
<p>Section 5.9.1 states that the operator of any glass melting furnace shall implement a NO_x CEMS that is approved, in writing, by the APCO and EPA, and that meets the requirements of Section 6.6.</p>	<p>Each unit has a CEMS for NO_x.</p> <p>N-593-10-15: Permit condition #39 ensures compliance with this requirement.</p> <p>N-593-12-13: Permit condition #39 ensures compliance with this requirement.</p> <p>N-593-13-11: Permit condition #39 ensures compliance with this requirement.</p>
<p>Section 5.9.2.1 states that the operator shall implement a CO CEMS that meets the requirements of Section 6.6.1 and is approved, in writing, by the APCO.</p> <p>Section 5.9.2.2 states that for each furnace subject to Table 2 VOC limits, the operator shall implement a VOC CEMS that meets the requirements of Section 6.6., and that is approved, in writing, by the APCO.</p> <p>Section 5.9.2.3 states that in lieu of installing and operating a CEMS for CO or CEMS for VOC, or both, an operator may propose key system operating parameter(s) and frequency of monitoring and recording as follows:</p> <ol style="list-style-type: none"> 1. The alternate monitoring shall meet the requirements of Section 6.6.2. 2. The operator shall obtain approval of the APCO and EPA for specific key system operating parameter(s), monitoring frequency, and recording frequency used by the operator to monitor CO/VOC emissions. 3. The operator shall monitor approved key operating parameter(s) at the approved monitoring frequency to ensure compliance with the emission limits during periods of emission-producing activities. 4. Acceptable ranges for key system operating parameters shall be demonstrated through source testing. 	<p>Each unit has a CEMS for CO.</p> <p>N-593-10-15: Permit condition #39 ensures compliance with this requirement.</p> <p>N-593-12-13: Permit condition #38 ensures compliance with this requirement.</p> <p>N-593-13-11: Permit condition #38 ensures compliance with this requirement.</p>

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Rule 4354 Requirements	Method of Compliance
<p>Section 5.9.3.1 states that the operator shall implement a SOx CEMS that meets the requirements of Section 6.6.1 and that is approved, in writing, by the APCO and EPA.</p> <p>Section 5.9.3.2 states that in lieu of installing and operating a CEMS for SOx, an operator may propose key system operating parameters and frequency of monitoring and recording as follows:</p> <ol style="list-style-type: none"> 1. The alternate monitoring shall meet the requirements of Section 6.6.2. 2. The operator shall obtain approval of the APCO and EPA for specific key system operating parameter(s), monitoring frequency, and recording frequency used by the operator to monitor SOx emissions. 3. The operator shall monitor approved key operating parameter(s) at the approved monitoring frequency to ensure compliance with the emission limits during periods of emission-producing activities. 4. Acceptable ranges for key system operating parameters shall be demonstrated through source testing. 	<p>Each unit has a CEMS for SOx.</p> <p>N-593-10-15: Permit condition #39 ensures compliance with this requirement.</p> <p>N-593-12-13: Permit condition #38 ensures compliance with this requirement.</p> <p>N-593-13-11: Permit condition #38 ensures compliance with this requirement.</p>
<p>Section 5.9.4.1 states that the operator shall propose key system operating parameters and frequency of monitoring and recording as follows:</p> <ol style="list-style-type: none"> 1. The alternate monitoring shall meet the requirements of Section 6.6.2. 2. The operator shall obtain approval of the APCO and EPA for specific key system operating parameter(s), monitoring frequency, and recording frequency used by the operator to monitor PM10 emissions. 3. The operator shall monitor approved key operating parameter(s) at the approved monitoring frequency to ensure compliance with the emission limits during periods of emission-producing activities. 4. Acceptable ranges for key system operating parameters shall be demonstrated through source testing. <p>Section 5.9.4.2 states that in lieu of parametric monitoring, the operator may elect to implement a PM10 CEMS that meets the requirements of Section 6.6.1 and that is approved, in writing, by the APCO and EPA.</p>	<p>A monitoring plan was approved for PM10 for each unit.</p> <p>N-593-10-15: Permit conditions #55 through #58 ensure compliance with this requirement.</p> <p>N-593-12-13: Permit conditions #54 through #57 ensures compliance with this requirement.</p> <p>N-593-13-11: Permit conditions #54 through #57 ensure compliance with this requirement.</p>
<p>Section 5.10 states that during routine maintenance of an add-on emission control system, an operator of a glass melting furnace subject to Sections 5.1 and 5.4 is exempt from those limits if:</p> <ol style="list-style-type: none"> 1. Routine Maintenance in each calendar year does not exceed 144 hours total for all add-on controls; and 2. Routine Maintenance is conducted in a manner consistent with good air pollution control practices for minimizing emissions. 	<p>N-593-10-15: Permit condition #14 ensures compliance with this requirement.</p> <p>N-593-12-13: Permit condition #14 ensures compliance with this requirement.</p> <p>N-593-13-11: Permit condition #14 ensures compliance with this requirement.</p>
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Rule 4354 Requirements	Method of Compliance
Section 6.2 lists operation record requirements that expire on January 1, 2011.	January 1, 2011 has passed; therefore, these requirements have expired and will not be addressed in this evaluation.
<p>Section 6.3.1 states that operators shall maintain daily records of the following items:</p> <ol style="list-style-type: none"> 1. Total hours of operation; 2. The quantity of glass pulled from each furnace; 3. NOx emission rate in lb/ton of glass pulled; 4. CO emission rate in units matching Table 2, if a CEMS is used; 5. VOC emission rate in units matching Table 2 if a CEMS is used; 6. SOx emission rate in lb/ton of glass pulled, if a CEMS is used; 7. PM10 emission rate in lb/ton of glass pulled in a CEMS is used; 8. For container glass furnaces that are oxy-fuel fired: <ol style="list-style-type: none"> a. The weight of mixed color mix cullet used; b. The total amount of cullet used by weight; c. The ratio, expressed in percent, of mixed color mix weight to total cullet weight. 	<p>N-593-10-15: Permit condition #74 ensures compliance with this requirement.</p> <p>N-593-12-13: Permit condition #73 ensures compliance with this requirement.</p> <p>N-593-13-11: Permit condition #73 ensures compliance with this requirement.</p>
Section 6.3.2 states that for pollutants monitored using an approved parametric monitoring arrangement, operators shall record the operating values of the key system operating parameters at the approved recording frequency.	<p>N-593-10-15: Permit conditions #54 and #58 ensure compliance with this requirement.</p> <p>N-593-12-13: Permit conditions #53 and #57 ensure compliance with this requirement.</p> <p>N-593-13-11: Permit conditions #53 and #57 ensure compliance with this requirement.</p>
<p>Section 6.3.3 states that operators shall maintain records of the following items:</p> <ol style="list-style-type: none"> 1. Source tests and source test results; 2. The acceptable range for each approved key system operating parameter, as established during the source test; 3. Maintenance and repair; 4. And Malfunction. 	<p>N-593-10-15: Permit condition #74 ensures compliance with this requirement.</p> <p>N-593-12-13: Permit condition #73 ensures compliance with this requirement.</p> <p>N-593-13-11: Permit condition #73 ensures compliance with this requirement.</p>
Section 6.3.4 states that the operator must retain records for a period of five years and make such 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.	<p>N-593-10-15: Permit condition #78 ensures compliance with this requirement.</p> <p>N-593-12-13: Permit condition #77 ensures compliance with this requirement.</p> <p>N-593-13-11: Permit condition #77 ensures compliance with this requirement.</p>
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Rule 4354 Requirements	Method of Compliance
<p>Section 6.4.1 states that each glass melting furnace or furnace battery shall be source tested at least once every calendar year, but no more than every 18 months and not sooner than every 6 months to demonstrate compliance with the emission limits.</p>	<p>N-593-10-15: Permit condition #30 ensures compliance with this requirement.</p> <p>N-593-12-13: Permit Condition #29 ensures compliance with this requirement.</p> <p>N-593-13-11: Permit Condition #29 ensures compliance with this requirement.</p>
<p>Section 6.4.2 states that source test conditions shall be representative of normal operations, but not less than 60 percent of the permitted glass production capacity.</p>	<p>N-593-10-15: Permit condition #31 ensures compliance with this requirement.</p> <p>N-593-12-13: Permit condition #30 ensures compliance with this requirement.</p> <p>N-593-13-11: Permit condition #30 ensures compliance with this requirement.</p>
<p>Section 6.4.4 states that during source testing in accordance with Section 6.4.1, the arithmetic average of three 30-consecutive-minute test runs shall be used to determine compliance with NOx, CO, VOC, and SOx emission limits.</p>	<p>N-593-10-15: Permit condition #36 ensures compliance with this requirement.</p> <p>N-593-12-13: Permit condition #35 ensures compliance with this requirement.</p> <p>N-593-13-11: Permit condition #35 ensures compliance with this requirement.</p>
<p>Section 6.4.5 states that during source testing in accordance with Section 6.4.1, the arithmetic average of three 60-consecutive-minute test runs shall be used to determine compliance with PM10 emission limits.</p>	<p>N-593-10-15: Permit condition #37 ensures compliance with this requirement.</p> <p>N-593-12-13: Permit condition #36 ensures compliance with this requirement.</p> <p>N-593-13-11: Permit condition #36 ensures compliance with this requirement.</p>
<p>Section 6.4.6 states that for a given pollutant, if two of 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.</p>	<p>N-593-10-15: Permit condition #38 ensures compliance with this requirement.</p> <p>N-593-12-13: Permit condition #37 ensures compliance with this requirement.</p> <p>N-593-13-11: Permit condition #37 ensures compliance with this requirement.</p>
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Rule 4354 Requirements	Method of Compliance
<p>Section 6.5.1 states that testing for oxides of nitrogen shall be conducted using EPA Method 7E, EPA Method 19, or ARB Method 100.</p> <p>Section 6.5.2 states that testing for carbon monoxide (ppmv) shall be conducted using EPA Method 10 or ARB Method 100.</p> <p>Section 6.5.3 states that testing for volatile organic compounds (ppmv) shall be conducted using EPA method 25A expressed in terms of carbon or ARB Method 100. EPA Method 18 or ARB method 422 shall be used to determine emissions of exempt compounds.</p> <p>Section 6.5.4 states that testing for stack oxygen, carbon dioxide, excess air, and dry molecular weight shall be conducted using EPA method 3 or 3A, or ARB Method 100.</p> <p>Section 6.5.5 states that testing for stack gas velocity and volumetric flow rate using EPA Method 2.</p> <p>Section 6.5.6 states that testing for oxides of sulfur shall be conducted using EPA Method 6C or EPA Method 8 for measuring total SOx (expressed as SO₂) concentrations at the inlet and outlet of the control device.</p> <p>Section 6.5.7 states the approved methods for testing the SOx emission control system efficiency.</p> <p>Section 6.5.8 states that testing the sulfur content of liquid fuel shall be conducted using ASTM D6428-99 or ASTM D 5453-99.</p> <p>Section 6.5.9.1 states that testing for filterable PM10 emissions shall be conducted using EPA Method 5, EPA Method 201, or EPA Method 201A. An operator choosing EPA Method 5 shall count all PM collected as PM10.</p> <p>Section 6.5.9.2 states that testing for condensable PM10 emissions shall be conducted using EPA Method 202 with the following procedures:</p> <ol style="list-style-type: none"> 1. Purge the impinger with dry nitrogen for one hour. The one-hour purge with dry nitrogen shall be performed as soon as possible after the final leak check of the system. 2. Neutralize the inorganic portion to a pH of 7.0. Use the procedure, "Determination of NH₄ retained in Sample by Titration" described in Method 202 to neutralize the sulfuric acid. Neutralizing the inorganic portion to a pH of 7.0 determines the un-neutralized sulfuric acid content of the sample without over-correcting the amount of neutralized sulfate in the inorganic portion. 3. Evaporate the last 1 ml of the inorganic fraction by air drying following evaporation of the bulk of the impinger water in a 105 degrees C oven as described in the first sentence of the Method 202 section titled "Inorganic Fraction Weight Determination". 	<p>N-593-10-15: Permit Condition #33 ensures compliance with this requirement.</p> <p>N-593-12-13: Permit Condition #32 ensures compliance with this requirement.</p> <p>N-593-13-11: Permit Condition #32 ensures compliance with this requirement.</p>
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Rule 4354 Requirements	Method of Compliance
<p>Section 6.6 states that an approved CEMS shall comply with the following requirements:</p> <ol style="list-style-type: none"> 1. 40 CFR Part 51; 2. 40 CFR Part 60.7; 3. 40 CFR Part 60.13; 4. 40 CFR 60 Appendix B; 5. 40 CFR 60 Appendix F; and 6. Applicable Sections of District Rule 1080. 	<p>N-593-10-15: Permit conditions #39 through #51 ensure compliance with this requirement.</p> <p>N-593-12-13: Permit conditions #38 through #50 ensure compliance with this requirement.</p> <p>N-593-13-11: Permit conditions #38 through #50 ensure compliance with this requirement.</p>
<p>Section 6.6.2 states that an approved emission monitoring method shall be capable of determining the furnace emissions on an hourly basis and shall comply with the following requirements:</p> <ol style="list-style-type: none"> 1. 40 CFR 64; and 2. 40 CFR 60.13. 	<p>N-593-10-15: Permit conditions #53 through #58 ensure compliance with this requirement.</p> <p>N-593-12-13: Permit conditions #52 through #57 ensure compliance with this requirement.</p> <p>N-593-13-11: Permit conditions #52 through #57 ensure compliance with this requirement.</p>
<p>Section 6.7.1 states that the operator of any glass melting furnace claiming an exemption under Section 4.4 shall notify the APCO by telephone at least 24 hours before initiating idling, shutdown, or start-up. The notification shall include: date and time of the start of the exempt operation, reason for performing the operation, and an estimated completion date.</p> <p>Section 6.7.2 states that the operator shall notify the APCO by telephone within 24 hours after completion of the start-up, shutdown, or idling.</p> <p>Section 6.7.3 states that an operator claiming exemption under Section 4.4 shall maintain all operating records/support documentation necessary to support claim of exemption.</p>	<p>N-593-10-15: Permit condition #7 ensures compliance with these requirements.</p> <p>N-593-12-13: Permit condition #7 ensures compliance with these requirements.</p> <p>N-593-13-11: Permit condition #7 ensures compliance with these requirements.</p>
<p>Section 6.7.4 states that the records/support documentation required by Section 6.7.3 shall meet the following requirements:</p> <ol style="list-style-type: none"> 1. The records/support documentation shall be retained on-site for five years. 2. The records/support documentation shall be made available to the APCO, ARB, or EPA during normal business hours. 3. The records/support documentation shall be submitted to the APCO/ARB, or EPA upon request. 	<p>N-593-10-15: Permit Condition #78 ensures compliance with this requirement.</p> <p>N-593-12-13: Permit Condition #77 ensures compliance with this requirement.</p> <p>N-593-13-11: Permit Condition #77 ensures compliance with this requirement.</p>

F. District Rule 4601 - Architectural Coatings

This rule limits the emissions of VOC's from architectural coatings. It requires limiting the application of any architectural coating to no more than what is listed in the Table of Standards (Section 5.0). This rule further specifies labeling requirements, coatings thinning recommendations and storage requirements.

a. Facility Wide Permit N-593-0-4

- Conditions 23, 24, and 25 for this proposed permit assures compliance with the requirements of this rule.

The latest version of District Rule 4601 has not been SIP approved. Attachment D contains the streamlining of the SIP approved District Rule 4601 (10/31/01) to the current District Rule 4601 to show the current rule is as stringent if not more stringent than the SIP approved version.

G. District Rule 4702 – Internal Combustion Engines – Phase 2

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. The rule applies to any internal combustion engine rated at 25 brake horsepower or greater.

Owens Brockway operates five internal combustion, of which three are used to power standby emergency electrical generators and two are used to power emergency fire pumps.

Section 4.2 of this rule states that 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 low-use engine, provided that the engine is operated with an operating non-resettable elapsed time meter.

The three engines powering standby emergency electrical generators, N-593-27, '-28, and '-29, all meet the criteria of this exemption. Condition 5 of each draft Permit to Operate (N-593-27-5, '-28-5, and '-29-5) enforces the requirement to be equipped with an operating non-resettable elapsed time meter.

Section 4.3 of this rule states that except for the administrative requirements of Section 6.2.3, the requirements of this rule shall not apply to an internal combustion engine that meets the following conditions:

1. The engine is operated exclusively to preserve or protect property, human life, or public health during a disaster or state of emergency, such as fire or flood; and
2. Except for operations associated with Section 4.3.1.1, the engine is limited to operate no more than 100 hours per calendar year as determined by an operational nonresettable elapsed time meter, for periodic maintenance, periodic readiness testing, and readiness testing during and after repair work of the engine; and
3. The engine is operated with an operational nonresettable elapsed time meter.

The two engines that power fire pumps, N-593-31 and '-32, meet the criteria of this exemption. Conditions #3 and #4 of each draft Permit to Operate (N-593-31-5 and '-32-5) enforce the above requirements.

Section 5.9 only applies to the three engines that power standby emergency electrical generators and requires the following:

1. The operator shall properly operate and maintain each engine as recommended by the engine manufacturer or emission control system supplier.
2. The operator shall monitor the operational characteristics of each engine as recommended by the engine manufacturer or emission control system supplier.
3. The operator shall install and operate a non-resettable elapsed time meter.

Conditions #5 through #7 of each draft Permit to Operate (N-593-27-5, '-28-5, and '-29-5) enforce the above requirements.

Section 6.2.3 states that 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:

1. Total hours of operation,
2. The type of fuel used,
3. The purpose for operating the engine,

4. For emergency standby engines, all hours of non-emergency and emergency operation shall be reported, and
5. Other support documentation as necessary to demonstrate claim to the exemption.

Conditions #11 through #13 of each draft Permit to Operate (N-593-27-5, '-28-5, and '-29-5), and conditions #6 through #9 of each draft Permit to Operate (N-593-31-5 and '-32-5) enforce the above requirements.

H. District Rules 8011, 8021, 8031, 8041, 8051, 8061, and 8071 – SJVUAPCD Regulation VIII – Fugitive Dust (PM_{10})

These regulations contain requirements for the control of fugitive dust. These requirements apply to various sources, including construction, demolition, excavation, extraction, mining activities, outdoor storage piles, paved and unpaved roads.

a. N-593-0-4: Facility-Wide Requirements

- Conditions #29 through #34 of the requirements for the proposed permit assures compliance with these regulations.

I. 40 CFR Part 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

This rule is subject to owners and operators of stationary compression ignition (CI) internal combustion engines as specified below:

1. Owners and operators of stationary CI ICE engines that commence construction after July 11, 2005 where the CI ICE are:
 - i. Manufactured after April 1, 2006, and are not fire pump engines, or
 - ii. Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006.
2. Owners and operators of any stationary CI ICE that are modified or reconstructed after July 11, 2005 and any person that modifies or reconstructs any stationary CI ICE after July 11, 2005.

Owen's Brockway commenced construction before July 11, 2005 for each of their CI ICE, and have not modified or reconstructed each CI ICE. Therefore, the requirements of Subpart IIII do not apply.

J. 40 CFR Part 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

This subpart establishes national emission limitations and operating limitations for hazardous air pollutants emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions.

Each of the emergency engines operated by Owen's Brockway is an existing emergency engine. Furthermore, the facility was previously determined to be an area source of HAP emissions. The engines are subject to the requirements of Subpart ZZZZ. The following table outlines the requirements for existing emergency compression ignited engines located at an area source of HAP emissions:

40 CFR 63 Subpart ZZZZ Requirement	Method of Compliance
<p>40 CFR 63.6603(a) requires the owner or operator of an existing stationary RICE located at an area source of HAP emissions to comply with the applicable requirements in Table 2d and the operating limitations in table 2b. The following are the applicable requirements from these tables for emergency compression ignited engines:</p> <ul style="list-style-type: none"> • Change the oil and filter every 500 hours of operation, or annually, whichever comes first; • Inspect the air cleaner every 1,000 hours of operation, or annually, whichever comes first, and replace as necessary; and • Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. 	<p>Condition #6 of each draft Permit to Operate (N-593-27-5, '-28-5, and '-29-5), and condition #8 of each draft Permit to Operate (N-593-31-5 and '-32-5) enforce the Subpart ZZZZ requirements</p>
<p>40 CFR 63.6625(f) requires that existing emergency engines operated at an area source of HAPs be equipped with a non-resettable hour meter if one is not already installed.</p>	<p>Condition #5 of each draft Permit to Operate (N-593-27-5, '-28-5, and '-29-5), and condition #3 of each draft Permit to Operate (N-593-31-5 and '-32-5) enforce the Subpart ZZZZ requirements.</p>
<p>40 CFR 63.6640(f)(2) and (f)(2)(i) allows emergency stationary RICE to operate for a maximum of 100 hours per calendar year for maintenance and readiness testing.</p>	<p>Conditions #8 of each draft Permit to Operate (N-593-27-5, '-28-5, and '-29-5), and condition #4 of each draft Permit to Operate (N-593-31-5 and '-32-5) enforce the Subpart ZZZZ requirements.</p>
<p>40 CFR 63.6655(e) requires records be kept to demonstrate compliance with the maintenance and operating requirements of this subpart.</p>	<p>Condition #11 of each draft Permit to Operate (N-593-27-5, '-28-5, and '-29-5), and condition #6 of each draft Permit to Operate (N-593-31-5 and '-32-5) enforce the Subpart ZZZZ requirements.</p>

K. 40 CFR Part 63, Subpart SSSSSS, National Emission Standards for Hazardous Air Pollutants from Glass Manufacturing Area Sources

This subpart is applicable to glass furnaces that manufacture container glass containing metal HAP as raw materials. Compliance with this subpart was required by December 28, 2009.

All three furnaces are subject to the requirements of Subpart SSSSSS. Each furnace is considered an existing source, since each furnace has not been constructed or reconstructed since September 20, 2007.

§63.11451 states that the owner or operator of a new or existing glass furnace must meet the applicable emission limit listed in Table 1 of this subpart.

Table 1 of Subpart SSSSSS	
For each...	You must meet one of the following emission limits...
1. New or existing glass melting furnace that produces glass at an annual rate of at least 45 Mg/year (50 tpy) and is charged with compounds of arsenic, cadmium, chromium, manganese, lead, or nickel as raw materials	a. 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 b. 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 three furnaces are charged with chromium and produces glass at a rate greater than 50 tpy. The facility performed initial source testing that demonstrates that the metal HAP emission rates are in compliance with the 0.02 lb/ton of glass produced metal HAP limit (option b above).

N-593-10-15: Permit Condition #59 ensures compliance with this requirement.

N-593-12-13: Permit Condition #58 ensures compliance with this requirement.

N-593-13-11: Permit Condition #58 ensures compliance with this requirement.

§63.11452 states that the owner or operator of a furnace that is subject to the Subpart SSSSSS emission limits must conduct a performance test within 180 days of the compliance date and report the results of that test in the notification of compliance status sent to the administrator. The facility has performed the test and submitted the notification. Thus, this requirement has already been satisfied.

§63.11453 and §63.11454 list the initial compliance demonstration and monitoring requirements for new and existing glass furnaces. The facility has already submitted the Notification of Compliance Status that was required by §63.11453. §63.11453(d) requires the use of monitoring equipment on the electrostatic precipitator if an electrostatic precipitator is required to demonstrate compliance. The metal HAP tests were conducted at a location prior to the exhaust treatment by an electrostatic precipitator. Thus, the electrostatic precipitator is not required to meet the metal HAP limit and monitoring requirement of Subpart SSSSSS are not applicable.

§63.11455 lists continuous compliance requirements for new and existing glass furnaces that are subject to this subpart. This section states that the unit must be in compliance with the emission limit of this Subpart, except during periods of startup, shutdown, and malfunction. This provision has been included in the condition limiting the metal HAP emissions. No further requirements of this section are applicable.

§63.11456 lists the notification requirements. The facility has already submitted their notification. Thus, these requirements have already been satisfied.

§63.11457 lists the recordkeeping requirements.

§63.11457(a)(1) states that the facility must keep a copy of the Initial Notification and Notification of Compliance Status.

N-593-10-15: Permit Condition #60 ensures compliance with this requirement.

N-593-12-13: Permit Condition #59 ensures compliance with this requirement.

N-593-13-11: Permit Condition #59 ensures compliance with this requirement.

§63.11457(a)(4) requires the facility to keep records of the production data. 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. The following condition will be included on each Authority to Construct permit:

N-593-10-15: Permit Condition #61 ensures compliance with this requirement.

N-593-12-13: Permit Condition #60 ensures compliance with this requirement.

N-593-13-11: Permit Condition #60 ensures compliance with this requirement.

Compliance with Subpart SSSSSS requirements is expected.

L. 40 CFR Part 82, Subparts B and F, Stratospheric Ozone

There are applicable requirements from Title VI of the CAA (Stratospheric Ozone) that apply to all sources in general. These requirements pertain to air conditioners, chillers and refrigerators located at a Title V source and to disposal of air conditioners or maintenance/recharging/disposal of motor vehicle air conditioners (MVAC).

a. N-593-0-4: Facility-Wide Permit

- Conditions #27 and #28 of the requirements for the proposed permit assures compliance with this subpart.

M. 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.

The following Major Source thresholds will be used, as necessary, to determine whether CAM is triggered.

Pollutant	lb/year	ton/year
NOx	20,000	10
SOx	140,000	70
PM10	140,000	70
CO	200,000	100
VOC	20,000	10

Permit Units N-593-2-9, '-11-9, '-37-3, '-38-3, '-39-3, '-40-3, and '-41-3: Hot End Surface Treatment Systems Served by a Shared Baghouse

These units share a baghouse that controls PM10 emissions. The maximum product throughput for the six systems is 8.91 lb-MBTT/hr and the controlled PM10 emission factor is 0.01107 lb-PM10/lb-MBTT. A baghouse control efficiency of 99% is assumed. Using these values, the combined uncontrolled emission rate from the six hot end surface treatment systems is:

$$\text{PE PM}_{10} = 8.91 \text{ lb/hr} \times 0.01107 \text{ lb-PM}_{10}/\text{lb} \times 8760 \text{ hr/year} \div (1-0.99)$$
$$\text{PE PM}_{10} = 86,403 \text{ lb-PM}_{10}/\text{year}$$

Since the uncontrolled emission rate is less than the threshold of 140,000 lb/year, CAM is not triggered for these units.

Permit Unit N-593-3-4: Batch Constituents Handling System: Raw Material Unloading Hopper, Conveying, Weighing, and Mixing served by a Baghouse.

This unit is not subject to CAM since the permit does not include an emission limit for PM₁₀, which is the only pollutant emitted by this unit.

Permit Unit N-593-4-4: Batch Constituents Handling System: New Minor Ingredients System Served by a Baghouse

This unit is not subject to CAM since the permit does not include an emission limit for PM₁₀, which is the only pollutant emitted by this unit.

Permit Unit N-593-5-4: Batch Constituents Handling System: Cullet Crushing, Elevating, and Blending

This unit is not subject to CAM since the permit does not include an emission limit for PM₁₀, which is the only pollutant emitted by this unit.

Permit Unit N-593-6-4: Batch Constituents Handling System: Batch Distribution and Conveying to Furnace #22-C Served by a Baghouse

This unit is not subject to CAM since the permit does not include an emission limit for PM₁₀, which is the only pollutant emitted by this unit.

Permit Unit N-593-7-4: Batch Constituents Handling System: Batch Distribution and Conveying to Furnace #22-A Served by a Baghouse

This unit is not subject to CAM since the permit does not include an emission limit for PM₁₀, which is the only pollutant emitted by this unit.

Permit Unit N-593-8-4: Batch Constituents Handling System: Batch Distribution and Conveying to Furnace #22-B Served by a Baghouse

This unit is not subject to CAM since the permit does not include an emission limit for PM₁₀, which is the only pollutant emitted by this unit.

Permit Unit N-593-10-15: 60 MMBtu/hr Glass Melting Furnace #22-C with a Custom GEA BISCHOFF Inc. Dry SOx Scrubber, A GEA Bischoff MODEL BS 780 10 / 5.0 / 2 x 11 / 0.4 Electrostatic Precipitator. with a 153 Cubic Foot Storage Silo and a 190 Cubic Foot Storage Silo. Each with a Met-Pro Corp Flex-Kleen Bin Vent Filter

CAM for this unit was evaluated in recent District Project N-1120195. It was determined in that project that CAM requirements have been satisfied and no further conditions are required on the Permit to Operate.

Permit Unit N-593-12-13: 29 MMBtu/hr Oxygen-Enriched Air-Staging (OEAS) Glass Melting Furnace #22-A with a Custom GEA Bischoff Inc. Dry SOx Scrubber, a GEA Bischoff Model BS 780 10 / 5.0 / 2 x 7 / 0.4 Electrostatic Precipitator, with a 153 Cubic Foot Storage Silo and a 190 Cubic Foot Storage Silo, Each with a Met-pro Corp Flex-Kleen Bin Vent Filter

CAM for this unit was evaluated in recent District Project N-1120195. It was determined in that project that CAM requirements have been satisfied and no further conditions are required on the Permit to Operate.

Permit Unit N-593-13-11: 67 MMBtu/hr Oxygen-Enriched Air Staging (OEAS) Glass Melting Furnace #22-B with a Custom GEA Bischoff Inc. Dry Sox Scrubber, a GEA Bischoff Model BS 780 10 / 5.0 / 2 x 11 / 0.4 Electrostatic Precipitator, with a 153 Cubic Foot Storage Silo and a 190 Cubic Foot Storage Silo, Each with a Met-pro Corp Flex-Kleen Bin Vent Filter

CAM for this unit was evaluated in recent District Project N-1120195. It was determined in that project that CAM requirements have been satisfied and no further conditions are required on the Permit to Operate.

Permit Unit N-593-20-4, '-21-4, and '-22-4: Storage Silos Served by a Baghouse

This units are not subject to CAM since the permits do not include an emission limit for PM10, which is the only pollutant emitted by these units.

Permit Unit N-593-27-5: 240 BHP Caterpillar Model #3306B Diesel-Fired Emergency Standby IC Engine Powering a 150 kW Electrical Generator

This permit only includes an emission limit for NOx. The engine is not equipped with a NOx control device; therefore, CAM is not triggered for this unit.

Permit Unit N-593-28-5: 380 BHP Caterpillar Model #3406 DIT Diesel-Fired
Emergency Standby IC Engine Powering a 260 kW Electrical Generator

This permit only includes an emission limit for NOx. The engine is not equipped with a NOx control device; therefore, CAM is not triggered for this unit.

Permit Unit N-593-29-5: 534 BHP Caterpillar Model #3406 DITA Diesel-Fired
Emergency Standby IC Engine Powering a 350 kW Electrical Generator

This permit only includes an emission limit for NOx. The engine is not equipped with a NOx control device; therefore, CAM is not triggered for this unit.

Permit Unit N-593-31-5: 136 BHP Cummins Model #V-378-F2 Diesel-Fired
Emergency IC Engine Powering a Firewater Pump

This unit is not subject to CAM since the permit does not include an emission limit for any pollutants

Permit Unit N-593-32-5: 185 BHP Caterpillar Model #3208 DINA Diesel-Fired
Emergency IC Engine Powering a Firewater Pump

This unit is not subject to CAM since the permit does not include an emission limit for any pollutants

Permit Unit N-593-36-3: Iron Chromite Pre-Mix System for Furnace #22-A
Including an Iron Chromite Bulk Bag Unloader Served by a Nol-Tec Model
#350 Dust Collector, Hopper, Mixer, Staging Hopper, Flexible Screw Feeder,
Transporter, Air Injectors, and Receiving Hopper Served by a Nol-Tec Model
#84-NT-16 Baghouse, Scale and Supporting Valves

The iron chromite bulk bag unloader is served by a dust collector that controls PM10 emissions. The maximum iron chromite throughput for this system is 2.1 tons/day and the controlled PM10 emission factor is 0.00024 lb-PM10/ton. A baghouse control efficiency of 99% is assumed. Using these values, the uncontrolled emission rate for this system is:

$$\text{PE PM}_{10} = 2.1 \text{ tons/day} \times 0.00024 \text{ lb-PM}_{10}/\text{ton} \times 365 \text{ days/year} \div (1-0.99)$$
$$\text{PE PM}_{10} = 18 \text{ lb-PM}_{10}/\text{year}$$

The other emission units listed on this permit are served by a dust collector that controls PM10 emissions. The maximum iron chromite throughput for this system is 2.1 tons/day and the controlled PM10 emission factor is 0.0049 lb-PM10/ton. A baghouse control efficiency of 99% is assumed. Using these values, the uncontrolled emission rate for this system is:

$$\begin{aligned} \text{PE PM10} &= 2.1 \text{ tons/day} \times 0.0049 \text{ lb-PM10/ton} \times 365 \text{ days/year} \div (1-0.99) \\ \text{PE PM10} &= 376 \text{ lb-PM10/year} \end{aligned}$$

Since the uncontrolled PM10 emission rate is less than the threshold of 140,000 lb/year for both units, CAM is not triggered for these units.

Permit Unit N-593-42-4 Trona/Dry Reagent Receiving and Storage Operation with a 2800 Cubic Foot Storage Silo Served by a Met-Pro Corp Flex-Kleen Vent Filter

The trona receiving and storage operation is served by a vent filter that controls PM10 emissions. The maximum throughput for this system is 120 tons/day and the controlled PM10 emission factor is 0.00034 lb-PM10/ton. A baghouse control efficiency of 99% is assumed. Using these values, the uncontrolled emission rate for this system is:

$$\begin{aligned} \text{PE PM10} &= 120 \text{ tons/day} \times 0.00034 \text{ lb-PM10/ton} \times 365 \text{ days/year} \div (1-0.99) \\ \text{PE PM10} &= 1,489 \text{ lb-PM10/year} \end{aligned}$$

Since the uncontrolled PM10 emission rate is less than the threshold of 140,000 lb/year, CAM is not triggered for this unit.

Permit Unit N-593-43-2: Fully Enclosed Iron Chromite Material Handling System Consisting of one 65 CU FT Storage Bin Controlled by a Flex-Kleen Baghouse Dust Collector, One Weigh Screw Feeder, One Weigh Hopper with Load Cells, One Covered Metering Vibratory Feeder, and Air Conveyance Lines

This operation is served by a dust collector that controls PM10 emissions. Pursuant to District Project N-110202, the controlled PM10 emission rate is 0.00007 lb-PM10/day and the dust collector efficiency is estimated to be 99%. Using this data, the uncontrolled PM10 emission rate is:

$$\begin{aligned} \text{PE PM10} &= 0.00007 \text{ lb-PM10/day} \times 365 \text{ days/year} \div (1-0.99) \\ \text{PE PM10} &= 3 \text{ lb-PM10/year} \end{aligned}$$

Since the uncontrolled PM10 emission rate is less than the threshold of 140,000 lb/year, CAM is not triggered 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

The applicant has not proposed the use of the model general permit templates.

B. Requirements not Addressed by Model General Permit Templates

The applicant is not proposing any new permit shields.

C. Obsolete Permit Shields From Existing Permit Requirements

There was no obsolete permit shields listed on the existing permit requirements.

X. PERMIT CONDITIONS

See Attachment A - Draft Renewed Title V Operating Permit

XI. ATTACHMENTS

- A. Draft Renewed Title V Operating Permit
- B. Previous Title V Operating Permit
- C. Detailed Facility List
- D. Rule 4601 SIP Comparison

ATTACHMENT A

Draft Renewed Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: N-593-0-4

EXPIRATION DATE: 07/31/2012

FACILITY-WIDE REQUIREMENTS

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1. {4362} 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. {4363} 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. {4364} 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 (8/18/2011). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. {4366} 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. {4367} 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. {4368} 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. {4369} 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. {4370} 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: OWENS-BROCKWAY GLASS CONTAINER
Location: 14700 W SCHULTE ROAD, TRACY, CA 95376

N-593-0-4 : May 8 2013 10:39AM - HARADERJ

10. {4371} 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. {4372} 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. {4373} 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. {4374} 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. {4375} 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. {4376} 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. {4377} 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. {4378} 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. {4379} 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. {4380} 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. {4381} 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. {4382} 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

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

22. {4383} 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
23. {4384} 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. {4385} 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. {4386} 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. {4387} 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. {4388} 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. {4389} 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. {4390} 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 Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. {4391} 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 Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. {4392} 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 Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. {4393} 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 Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. {4394} 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 Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit

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

34. {4395} 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 Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. {4396} 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
36. {4397} 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. {4398} 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. {4399} 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. {4400} 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. {4401} 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. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin July 15 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
42. All correspondence as required by the Federal Major Stationary Source permit shall be forwarded to EPA at the following: Mailing address - Director, Air Division (Attn: Air-5), U. S. Environmental Protection Agency, Region IX, 75 Hawthorne Street San Francisco, CA 94105-3901; Email: R9.AEO@epa.gov; Facsimile: (415) 947-3579. [40 CFR 52.233(g)] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-2-9

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

HOT END SURFACE TREATMENT HOOD A1 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-11, '-37, '-38, '-39, '-40, AND '-41)

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. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse serving the hot end surface treatment systems shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The material removed from the baghouse and transferred into the receiver shall be prevented from being re-entrained into the atmosphere. No material shall accumulate outside of the receiver. [District Rule 4102]
8. The receiver shall remain sealed at all times except during maintenance. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emission rates from this unit shall not exceed either of the following limits: 0.01107 lb-PM10/lb-Monobutyltin Trichloride (MBTT) or 0.050 lb-VOC/lb-MBTT. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of MBTT used in this hot end surface treatment system shall not exceed 1.66 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed 8.91 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Ammonia (NH₃) emissions combined for hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed either of the following limits: 1.8 lb/hr or 150 ppmvd. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The permittee shall monitor and record the stack concentration (in ppmv) of NH₃ at least once every week using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit. [District Rule 4102]
14. Source testing to determine the rate of VOC, expressed as lb-VOC/lb-MBTT, shall be conducted at least once every twelve (12) months. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
15. VOC source testing shall be conducted using EPA Methods 18, 25, 25A, 25B, or ARB Method 100. Results shall be converted to lb-VOC/lb-MBTT. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
16. The stack gas velocities shall be determined using EPA Method 2, the stack gas moisture content shall be determined using EPA Method 4, and the gas analysis for the determination of dry molecular weight shall be determined using EPA Method 3. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. 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
19. The baghouse shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Baghouse filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Pressure gauges shall be inspected weekly and the results shall be recorded and made available for District inspection upon request. Corrective actions shall be implemented on the control equipment if indicated by the inspections. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Records of baghouse 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, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of the hourly and daily amount of MBTT used in the line shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Records of the combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Records of the weekly NH₃ concentration from the glass treatment operations shall be maintained. [District Rule 4102]
27. Records of the daily amount of glass treated from lines 22A & 22B shall be maintained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. 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
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201. 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.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-3-4

EXPIRATION DATE: 9/7/31/2012

EQUIPMENT DESCRIPTION:

BATCH CONSTITUENTS HANDLING SYSTEM: RAW MATERIAL UNLOADING HOPPER, CONVEYING, WEIGHING AND MIXING SERVED BY A BAGHOUSE

PERMIT UNIT REQUIREMENTS

1. There shall be no visible emissions from the baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
2. 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
3. The differential pressure across each compartment of the baghouse shall be maintained between 1" and 8" water column. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 4102]
6. There shall be no fugitive emissions from conveying and elevating systems. Compliance with this requirement shall be demonstrated by conducting weekly inspections of the equipment and maintaining records of the inspections. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201] 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 and San Joaquin County Rule 404. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
9. Dust collector shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particle matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. 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
12. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
14. The differential pressure across each compartment of the baghouse shall be checked and the results recorded weekly. If the differential pressure across each compartment of the baghouse is not between 1" and 8" water column, corrective action is required prior to further operation of the equipment. Corrective action means that the cause of the improper pressure differential is corrected before operation of the equipment is resumed. [District Rule 2520, 9.3.2 and 9.4.2] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-4-4

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

BATCH CONSTITUENTS HANDLING SYSTEM: NEW MINOR INGREDIENTS SYSTEM SERVED BY A BAGHOUSE

PERMIT UNIT REQUIREMENTS

1. There shall be no visible emissions from the baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
2. 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
3. The differential pressure across each compartment of the baghouse shall be maintained between 1" and 8" water column. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 4102]
6. There shall be no fugitive emissions from conveying and elevating systems. Compliance with this requirement shall be demonstrated by conducting weekly inspections of the equipment and maintaining records of the inspections. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201] 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 and San Joaquin County Rule 404. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
9. Dust collector shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. 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
12. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
14. The differential pressure across each compartment of the baghouse shall be checked and the results recorded weekly. If the differential pressure across each compartment of the baghouse is not between 1" and 8" water column, corrective action is required prior to further operation of the equipment. Corrective action means that the cause of the improper pressure differential is corrected before operation of the equipment is resumed. [District Rule 2520, 9.3.2 and 9.4.2] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-5-4

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

BATCH CONSTITUENTS HANDLING SYSTEM: CULLET CRUSHING, ELEVATING, AND BLENDING

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PERMIT UNIT REQUIREMENTS

1. There shall be no fugitive emissions from conveying and elevating systems. Compliance with this requirement shall be demonstrated by conducting weekly inspections of the equipment and maintaining records of the inspections.
[District NSR Rule] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-6-4

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

BATCH CONSTITUENTS HANDLING SYSTEM: BATCH DISTRIBUTION AND CONVEYING TO FURNACE #22-C
SERVED BY A BAGHOUSE

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PERMIT UNIT REQUIREMENTS

1. There shall be no visible emissions from the baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
2. 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
3. The differential pressure across each compartment of the baghouse shall be maintained between 1" and 8" water column. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 4102]
6. There shall be no fugitive emissions from conveying and elevating systems. Compliance with this requirement shall be demonstrated by conducting weekly inspections of the equipment and maintaining records of the inspections. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201] 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 and San Joaquin County Rule 404. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
9. Dust collector shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. 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
12. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

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

13. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
14. The differential pressure across each compartment of the baghouse shall be checked and the results recorded weekly. If the differential pressure across each compartment of the baghouse is not between 1" and 8" water column, corrective action is required prior to further operation of the equipment. Corrective action means that the cause of the improper pressure differential is corrected before operation of the equipment is resumed. [District Rule 2520, 9.3.2 and 9.4.2] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-7-4

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

BATCH CONSTITUENTS HANDLING SYSTEM: BATCH DISTRIBUTION AND CONVEYING TO FURNACE #22-A
SERVED BY A BAGHOUSE

PERMIT UNIT REQUIREMENTS

1. 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
2. The differential pressure across each compartment of the baghouse shall be maintained between 1" and 8" water column. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 4102]
5. There shall be no fugitive emissions from conveying and elevating systems. Compliance with this requirement shall be demonstrated by conducting weekly inspections of the equipment and maintaining records of the inspections. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 and San Joaquin County Rule 404. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
8. Dust collector shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. 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
11. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The differential pressure across each compartment of the baghouse shall be checked and the results recorded weekly. If the differential pressure across each compartment of the baghouse is not between 1" and 8" water column, corrective action is required prior to further operation of the equipment. Corrective action means that the cause of the improper pressure differential is corrected before operation of the equipment is resumed. [District Rule 2520, 9.3.2 and 9.4.2]
Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-8-4

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

BATCH CONSTITUENTS HANDLING SYSTEM: BATCH DISTRIBUTION AND CONVEYING TO FURNACE #22-B
SERVED BY A BAGHOUSE

PERMIT UNIT REQUIREMENTS

1. There shall be no visible emissions from the baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
2. 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
3. The differential pressure across each compartment of the baghouse shall be maintained between 1" and 8" water column. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 4102]
6. There shall be no fugitive emissions from conveying and elevating systems. Compliance with this requirement shall be demonstrated by conducting weekly inspections of the equipment and maintaining records of the inspections. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201] 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 and San Joaquin County Rule 404. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
9. Dust collector shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. 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
12. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
14. The differential pressure across each compartment of the baghouse shall be checked and the results recorded weekly. If the differential pressure across each compartment of the baghouse is not between 1" and 8" water column, corrective action is required prior to further operation of the equipment. Corrective action means that the cause of the improper pressure differential is corrected before operation of the equipment is resumed. [District Rule 2520, 9.3.2 and 9.4.2] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-10-15

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

60 MMBTU/HR GLASS MELTING FURNACE #22-C WITH A CUSTOM GEA BISCHOFF INC. DRY SOX SCRUBBER, A GEA BISCHOFF MODEL BS 780 10 / 5.0 / 2 X 11 / 0.4 ELECTROSTATIC PRECIPITATOR, WITH A 153 CUBIC FOOT STORAGE SILO AND A 190 CUBIC FOOT STORAGE SILO, EACH WITH A MET-PRO CORP FLEX-KLEEN BIN VENT FILTER

PERMIT UNIT REQUIREMENTS

1. All equipment, facilities, or systems installed or used to achieve compliance with the terms and conditions of the Federal Major Stationary Source permit shall at all times be maintained in good working order and be operated as efficiently as possible to minimize air pollutant emissions. [40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201 and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E=3.59P^{0.62}$ ($P < 30$ tph) or $E=17.31P^{0.16}$ ($P > 30$ tph). [District Rule 4202 and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
4. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [San Joaquin County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit
5. {1898} 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]
6. The exhaust from the glass melting furnace shall be vented through an operational SOx scrubber and electrostatic precipitator, except during periods of furnace startup (when technologically infeasible), furnace idle (when technologically infeasible), and during add-on control system maintenance. Scheduled maintenance of add-on control system shall be accomplished during periods of furnace idling whenever possible. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
7. The emission limitations of District Rule 4354 shall not apply during periods of start-up, shutdown, and idling, as defined by District Rule 4354. The permittee shall notify the District at least 24 hours prior to initiating idling, shutdown, or start-up of the glass furnace and this notification shall include: The 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
8. Start-up is defined as the period of time, after initial construction of a furnace rebuild, during which a glass melting furnace is heated to operating temperature by the primary furnace combustion system and instrumentation are brought to stabilization. Shutdown is defined as the period of time during which a glass melting furnace is purposely allowed to cool from operating temperature and molten glass is removed from the tank for the purposes of a furnace rebuild. Idling is defined as the operation of the furnace at less than 25 percent 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

9. During startup, the permittee shall comply with the requirements of Section 5.5 of District Rule 4354. [District Rule 4354] Federally Enforceable Through Title V Permit
10. The duration of shutdown of the furnace, as measured from the time the furnace operations drop below the idle threshold (operation of the furnace at less than 25 percent of the permitted glass production capacity or fuel use capacity) to when all emissions from the furnace cease, shall not exceed 20 days. [District Rule 4354] Federally Enforceable Through Title V Permit
11. During periods when the furnace is in idle state, the glass throughput shall not exceed 50 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
12. The emission control system shall be in operation whenever technologically feasible during furnace idling to minimize emissions. [District Rule 4354] Federally Enforceable Through Title V Permit
13. NO_x, CO, VOC, SO_x, and PM₁₀ emissions during idling shall not exceed the amount as calculated using the following equation: NO_x, CO, VOC, SO_x, or PM₁₀ (lb/day) = Applicable emission limit (lb/ton) x Furnace permitted production capacity (tons/day). [District Rule 4354] Federally Enforceable Through Title V Permit
14. The PM₁₀ and SO_x emission limits of this permit shall not apply during routine maintenance of the respective add-on control systems. The routine maintenance in each calendar year shall not exceed 144 hours total for all add-on controls and routine maintenance shall be conducted in a manner consistent with good air pollution control practices for minimizing emissions. [District Rule 4354] Federally Enforceable Through Title V Permit
15. The furnace shall be fired on PUC regulated natural gas or LPG/propane fuel only. [District NSR Rule] Federally Enforceable Through Title V Permit
16. The facility shall not use commercial arsenic as a raw material in the production process. [40 CFR 61 Subpart N] Federally Enforceable Through Title V Permit
17. The glass pull rate shall not exceed 417 tons during any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
18. The glass pull rate shall not exceed 146,000 tons during any rolling 12-month period. [District NSR Rule] Federally Enforceable Through Title V Permit
19. The weight percent of cullet per batch shall not be less than 17.5%. Batch weight distribution data shall be available for District inspection during normal operating hours. [District NSR Rule] Federally Enforceable Through Title V Permit
20. NO_x emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 69.50 lb-NO_x/hr and 4.0 lb-NO_x/ton of glass pulled, based on a block 24-hour average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
21. SO_x emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 15.64 lb-SO_x/hr and 0.9 lb-SO_x/ton of glass pulled, based on a 30-day rolling average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
22. CO emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 300 ppmvd @ 8% O₂ and 1.0 lb-CO/ton of glass pulled, based on a 3-hour rolling average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
23. VOC emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 20 ppmvd @ 8% O₂ and 0.25 lb-VOC/ton of glass pulled, based on a 3-hour rolling average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
24. PM₁₀ emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed either of the following limits: 6.59 lb-PM₁₀/hr and 0.5 lb-PM₁₀/ton of glass pulled, based on a block 24-hour average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
25. Particulate matter emissions shall not exceed 17.5 lb/hr. [40 CFR 52.233(g)] 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.

26. Daily combined emissions from furnaces N-593-10 (22-C), N-593-12 (22-A), and N-593-13 (22-B) shall not exceed any of the following limits: 3,392.2 lb-NO_x/day, 300.0 lb-PM₁₀/day, and 105.0 lb-filterable PM₁₀/day. [District NSR Rule and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
27. Combined emissions from furnaces N-593-10 (22-C), N-593-12 (22-A), and N-593-13 (22-B) computed over a rolling 12-month period shall not exceed either of the following limits: 606.540 tons-NO_x/year and 55 tons-PM₁₀/year. [District NSR Rule] Federally Enforceable Through Title V Permit
28. All required source testing shall conform to the compliance testing procedures described in District Rule 1081. [District Rule 1081] Federally Enforceable Through Title V Permit
29. 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 in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Source Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
30. Performance testing shall be conducted for VOC (ppmv and lb/ton of glass pulled), CO (ppmv and lb/ton of glass pulled), PM₁₀ (lb/ton of glass pulled and lb/hr), SO_x (lb/ton of glass pulled and lb/hr), and NO_x (lb/ton of glass pulled) emissions at least once every calendar year. To qualify as an annual performance test, the test date shall be at least 6 months after, and not more than 18 months after the initial and the previous annual performance test. [District NSR Rule, Rule 4354, and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
31. Furnace conditions during source testing shall be representative of normal operations, with a glass production rate equal to or greater than 60 percent of the permitted glass production capacity. The source test may be conducted at a glass production rate lower than 60 percent of the permitted glass production rate, provided that the permittee demonstrates that the proposed alternative glass production rate is representative of normal operations and the proposed alternative glass production rate is approved by the APCO in writing. [District Rule 4354] Federally Enforceable Through Title V Permit
32. Compliance demonstration (source testing) shall be District witnessed or authorized and samples shall be collected by a certified testing laboratory. Source testing shall be conducted using the methods and procedures specified in this permit. The District must be notified 45 days prior to any compliance source test, and a source test plan must be submitted for approval 30 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
33. Performance testing shall be conducted using following test methods: (1) Oxides of Nitrogen: EPA Method 7E, EPA Method 19, or ARB Method 100; (2) Carbon Monoxide: EPA Method 10, or ARB Method 100; (3) VOC (ppmv): EPA Method 25A expressed in terms of carbon, or ARB Method 100, EPA Method 18 or ARB method 422 to determine emissions of exempt compounds; (4) Stack Gas Oxygen, Carbon Dioxide, Excess Air, and Dry Molecular Weight: EPA Method 3 or 3A, or ARB Method 100; (5) Oxides of Sulfur: EPA Method 6C, EPA Method 8, or ARB Method 100; (6) Filterable PM₁₀: EPA Method 5, EPA Method 201, or EPA Method 201A. An operator choosing EPA Method 5 shall count all PM collected as PM₁₀; (7) Condensable PM₁₀: EPA Method 202 with the following procedures, (7a) Purge the impinger with dry nitrogen for one hour. The one hour purge with dry nitrogen shall be performed as soon as possible after the final leak check of the system, (7b) Neutralize the inorganic portion to a pH of 7.0. Use the procedure, "Determination of NH₄ Retained in Sample by Titration" described in Method 202 to neutralize sulfuric acid, (7c) Evaporate the last 1 ml of the inorganic fraction by air drying following evaporation of the bulk of the impinger water in a 105 degrees C oven as described in the first sentence of the Method 202 section titled "Inorganic Fraction Weight Determination". [District NSR Rule, Districts Rule 4354 and 2520, and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
34. 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 measuring PM₁₀ emissions limit. If this option is used, then all of the particulate emissions will be considered to be PM₁₀. [District NSR Rule] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

35. Source testing to measure emissions when firing on LPG fuel need not be performed if the LPG fuel usage for this furnace does not exceed 100 hours during any one calendar year. Once 100 hours of operation using LPG fuel is exceeded, a source test shall be performed within 90 days after the exceedance of 100 hours. [District Rule 1081] Federally Enforceable Through Title V Permit
36. For source testing purposes, arithmetic average of three 30-consecutive-minute test runs shall be used to determine compliance with NO_x, CO, VOC, and SO_x emission limits. [District Rules 2201, 4354, 6.4.4] Federally Enforceable Through Title V Permit
37. For source testing purposes, arithmetic average of three 60-consecutive-minute test runs shall be used to determine compliance with PM₁₀ emission limits. [District Rule 4354, 6.4.5] Federally Enforceable Through Title V Permit
38. 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]
39. The applicant shall install, maintain, and operate a continuous emissions monitoring system (CEMS) to measure stack NO_x, SO_x, CO, O₂ concentration (if required for compliance determination), and stack gas volumetric flow rate and shall meet the performance specification requirements in 40 CFR, Part 60, Appendix B, Performance Specifications 2, 3, and 4, or shall meet equivalent specifications established by mutual agreement of the District, the California Air Resources Board, and EPA. The CEM systems shall also be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7(c) and 40 CFR 60.13. [District Rules 1080, 2201, and 4354] Federally Enforceable Through Title V Permit
40. The applicant shall install, maintain, and operate a continuous opacity monitor (COM) and shall meet the performance specification requirements in 40 CFR Part 60, Appendix B, or shall meet equivalent specifications established by mutual consent of the District, the California Air Resources Board, and EPA. [District Rules 1080, 2201, and 4101] Federally Enforceable Through Title V Permit
41. The facility shall install and maintain equipment, facilities, and systems compatible with the Districts 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
42. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternate method. [District Rule 1080] Federally Enforceable Through Title V Permit
43. {2251} The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080, 7.1] Federally Enforceable Through Title V Permit
44. Results of the CEM system shall be averaged over the appropriate averaging period, using consecutive 15-minute samples in accordance with all applicable requirements of 40 CFR 60.13, or by other methods deemed equivalent by mutual agreement with the District, California Air Resources Board, and EPA. [District Rule 1080 and 40 CFR 60.13] Federally Enforceable Through Title V Permit
45. Records of the following items shall be maintained: the occurrence and duration of any malfunction, performance testing, calibrations, checks, adjustments, and any period during which the CEM is inoperative, and the CEM emission measurements. [District Rule 1080] Federally Enforceable Through Title V Permit
46. Cylinder gas audits (CGAs) of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy testing is performed, in accordance with EPA guidelines. The District shall be notified prior to completion of the audits. Audit reports shall be submitted along with quarterly compliance reports to the District. [District Rule 1080] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

47. The owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F (CGAs and RATAs) and if applicable 40 CFR Part 75, Appendix B (linearity and RATAs) at least once every four calendar quarters and annually within 30 days of the anniversary date of the initial test. 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
48. Any visible emission monitoring exceedance showing air contaminant 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 shall be reported by the operator to the APCO within 96 hours. [District Rule 1080] Federally Enforceable Through Title V Permit
49. Any violation of an emission standard, as shown by the stack CEMS, shall be reported to the APCO within 96 hours of detection. [District Rule 1080] Federally Enforceable Through Title V Permit
50. The operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEMS. The operator shall inform the APCO of the intent to shutdown a CEMS at least 24 hours prior to the event. [District Rule 1080] Federally Enforceable Through Title V Permit
51. 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 emissions (averaging period used for data reporting shall correspond to the averaging period for each respective emission standard); corrective actions taken and preventative measures adopted; applicable time and data for 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 or when the CEMS has not been inoperative, repaired, or adjusted. [District Rule 1080] Federally Enforceable Through Title V Permit
52. The permittee shall monitor and record the furnace temperature daily. [District Rule 4354] Federally Enforceable Through Title V Permit
53. The furnace temperature shall be maintained at or above the level for which compliance with the permitted VOC limit has been demonstrated. If the measured furnace temperature is less than the minimum furnace temperature limit, 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
54. The permittee shall keep records of the date and time of the furnace temperature readings and the furnace temperature during the source test that showed compliance with the VOC emission limit. [District Rule 4354] Federally Enforceable Through Title V Permit
55. The permittee shall install, operate, and maintain a continuous monitoring and recording system to accurately measure and record the electrostatic precipitator secondary current and secondary voltage. [District Rule 4354] Federally Enforceable Through Title V Permit
56. The average daily total power input into the electrostatic precipitator shall be calculated by multiplying the average daily secondary amperage by the average daily secondary voltage, both recorded by the continuous monitoring system. [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.

57. The average daily total power input of the electrostatic precipitator shall be maintained at or above the level for which compliance with the permitted PM10 limit has been demonstrated. If the measured average daily total power input into the electrostatic precipitator drops below the level for which compliance with the permitted PM10 limit has been demonstrated, the permittee shall conduct a certified PM10 source test within 60 days to re-establish the minimum average daily total power input limit. In lieu of conducting a certified PM10 source test, the permittee may stipulate that a violation has occurred, subject to enforcement action. The permittee must then correct the violation (return the average daily total power input to or above the minimum level), 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
58. The permittee shall keep records of the date of the measure electrostatic precipitator average daily total power input and the minimum electrostatic precipitator daily total power input established during the source test that showed compliance with the PM10 emission limit of this permit. [District Rule 4354] Federally Enforceable Through Title V Permit
59. The 3-hour block average production-based metal HAP mass emission rate shall not exceed 0.02 lb/ton of glass produced, except during periods of startup, shutdown, or malfunction. Compliance with this requirement shall be verified by keeping product data records. [40 CFR 63.11451 and 40 CFR 63.11455(a)] Federally Enforceable Through Title V Permit
60. Permittee shall keep a copy of the Initial Notification and Notification of Compliance Status for 40 CFR 63 Subpart SSSSSS. [40 CFR 63.11457(a)(1)] Federally Enforceable Through Title V Permit
61. Permittee shall keep records of the product data. The product data shall include the amount (weight or weight percent) of each ingredient in the batch formation, including all glass manufacturing metal HAP compounds. [40 CFR 63.11457(a)(4)] Federally Enforceable Through Title V Permit
62. Replacement filters numbering at least 10% of the total number of filters in the largest bin vent filter using each type of filter shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
63. Each bin vent filter cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
64. Visible emissions from the exhaust of each bin vent filter shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
65. The throughput for each electrostatic precipitator dust silo shall not exceed 1.81 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
66. PM10 emissions from each electrostatic precipitator dust silo shall not exceed 0.00034 lb/ton. [District Rule 2201] Federally Enforceable Through Title V Permit
67. Each bin vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the filter. 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
68. The differential pressure gauge reading range for each bin vent filter shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
69. The differential operating pressure across each bin vent filter shall be monitored and recorded on each day that the unit operates. [District Rule 2201] Federally Enforceable Through Title V Permit
70. Records of all maintenance of each bin vent filter, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
71. A log of daily process weight, wt% cullet per batch, electric boosting, fuel usage and other relevant operating parameters shall be kept on the premises and shall be made available for District inspection upon request. [District Rule 2520, 9.3.2 and 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.

72. During periods of electrostatic precipitator maintenance and furnace startup, the furnace visible emissions shall be recorded by CARB certified personnel during daylight hours using EPA Method 9 within 2 hours of electrostatic precipitator shutdown or bypass and at least three times a day. Each visible emissions evaluation shall be at least 4 hours apart. [District NSR Rule] Federally Enforceable Through Title V Permit
73. The applicant shall maintain accurate records of the time, date, cause (e.g. electrostatic precipitator maintenance, furnace startup, or furnace idle), and duration electrostatic precipitator is not in operation and result of any visible emissions testing during the period. Records shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
74. The permittee shall maintain daily records of the total hours of operation, type and quantity of fuel used, quantity of glass pulled, the NOx emission rate (in lb/ton of glass pulled), the CO emission rate (in lb/ton of glass pulled), and the SOx emission rate (in lb/ton of glass pulled). The permittee shall also maintain records of source tests, the acceptable range for each approved key system operating parameter as established by source testing, all instances of maintenance and repair, any malfunction, and records of all periods of idling, startup, or shutdown. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
75. Permittee shall keep a record of the rolling 12-month quantity of glass pulled. This record shall be updated on a monthly basis. [District Rule 2520] Federally Enforceable Through Title V Permit
76. Permittee shall keep a record of the combined daily NOx emissions (based on CEMs data), the combined daily PM10 emissions (based on annual source test results and daily production data), and the combined daily filterable PM10 emissions (based on annual source test results and daily production data), each in pounds, for furnaces N-593-10 (22-C), N-593-12 (22-A) and N-593-13 (22-B). [District Rules 2201 and 2520] Federally Enforceable Through Title V Permit
77. Permittee shall keep a record of the combined rolling 12-month NOx and PM10 emissions for furnaces N-593-10 (22-C), N-593-12 (22-A), and N-593-13 (22-C). This record shall be updated on a monthly basis. [District Rule 2201] Federally Enforceable Through Title V Permit
78. 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, 4354, and 40 CFR 63 Subpart SSSSS] Federally Enforceable Through Title V Permit
79. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rules 4201 and 4202. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
80. The requirements of District Rule 4301 were determined to not apply to this unit. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
81. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4801 and San Joaquin County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
82. The requirements of 40 CFR 60, Subpart CC were determined to not apply to this unit because the unit was constructed prior to the effective date in the regulation and not been modified (according to the definition of "modified" in the regulation). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
83. The requirements of 40 CFR 61, Subpart N were determined to not apply to this unit. 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.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-11-9

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

HOT END SURFACE TREATMENT HOOD C1 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-37, '-38, '-39, '-40, AND '-41)

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. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse serving the hot end surface treatment systems shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The material removed from the baghouse and transferred into the receiver shall be prevented from being re-entrained into the atmosphere. No material shall accumulate outside of the receiver. [District Rule 4102]
8. The receiver shall remain sealed at all times except during maintenance. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emission rates from this unit shall not exceed either of the following limits: 0.01107 lb-PM10/lb-Monobutyltin Trichloride (MBTT) or 0.050 lb-VOC/lb-MBTT. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of MBTT used in this hot end surface treatment system shall not exceed 1.66 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed 8.91 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Ammonia (NH₃) emissions combined for hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed either of the following limits: 1.8 lb/hr or 150 ppmvd. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The permittee shall monitor and record the stack concentration (in ppmv) of NH₃ at least once every week using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit. [District Rule 4102]
14. Source testing to determine the rate of VOC, expressed as lb-VOC/lb-MBTT, shall be conducted at least once every twelve (12) months. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
15. VOC source testing shall be conducted using EPA Methods 18, 25, 25A, 25B, or ARB Method 100. Results shall be converted to lb-VOC/lb-MBTT. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
16. The stack gas velocities shall be determined using EPA Method 2, the stack gas moisture content shall be determined using EPA Method 4, and the gas analysis for the determination of dry molecular weight shall be determined using EPA Method 3. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. 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
19. The baghouse shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Baghouse filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Pressure gauges shall be inspected weekly and the results shall be recorded and made available for District inspection upon request. Corrective actions shall be implemented on the control equipment if indicated by the inspections. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Records of baghouse 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, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of the hourly and daily amount of MBTT used in the line shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Records of the combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Records of the weekly NH₃ concentration from the glass treatment operations shall be maintained. [District Rule 4102]
27. Records of the daily amount of glass treated from line 22C shall be maintained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. 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
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201. 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.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-12-13

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

29 MMBTU/HR OXYGEN-ENRICHED AIR-STAGING (OEAS) GLASS MELTING FURNACE #22-A WITH A CUSTOM GEA BISCHOFF INC. DRY SOX SCRUBBER, A GEA BISCHOFF MODEL BS 780 10 / 5.0 / 2 X 7 / 0.4 ELECTROSTATIC PRECIPITATOR, WITH A 153 CUBIC FOOT STORAGE SILO AND A 190 CUBIC FOOT STORAGE SILO, EACH WITH A MET-PRO CORP FLEX-KLEEN BIN VENT FILTER

PERMIT UNIT REQUIREMENTS

1. All equipment, facilities, or systems installed or used to achieve compliance with the terms and conditions of the Federal Major Stationary Source permit shall at all times be maintained in good working order and be operated as efficiently as possible to minimize air pollutant emissions. [40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201 and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E=3.59P^{0.62}$ ($P < 30$ tph) or $E=17.31P^{0.16}$ ($P > 30$ tph). [District Rule 4202 and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
4. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [San Joaquin County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit
5. {1898} 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]
6. The exhaust from the glass melting furnace shall be vented through an operational SOx scrubber and electrostatic precipitator, except during periods of furnace startup (when technologically infeasible), furnace idle (when technologically infeasible), and during add-on control system maintenance. Scheduled maintenance of add-on control system shall be accomplished during periods of furnace idling whenever possible. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
7. The emission limitations of District Rule 4354 shall not apply during periods of start-up, shutdown, and idling, as defined by District Rule 4354. The permittee shall notify the District at least 24 hours prior to initiating idling, shutdown, or start-up of the glass furnace and this notification shall include: The 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
8. Start-up is defined as the period of time, after initial construction of a furnace rebuild, during which a glass melting furnace is heated to operating temperature by the primary furnace combustion system and instrumentation are brought to stabilization. Shutdown is defined as the period of time during which a glass melting furnace is purposely allowed to cool from operating temperature and molten glass is removed from the tank for the purposes of a furnace rebuild. Idling is defined as the operation of the furnace at less than 20 percent 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

9. During startup, the permittee shall comply with the requirements of Section 5.5 of District Rule 4354. [District Rule 4354] Federally Enforceable Through Title V Permit
10. The duration of shutdown of the furnace, as measured from the time the furnace operations drop below the idle threshold (operation of the furnace at less than 25 percent of the permitted glass production capacity or fuel use capacity) to when all emissions from the furnace cease, shall not exceed 20 days. [District Rule 4354] Federally Enforceable Through Title V Permit
11. During periods when the furnace is in idle state, the glass throughput shall not exceed 50 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
12. The emission control system shall be in operation whenever technologically feasible during furnace idling to minimize emissions. [District Rule 4354] Federally Enforceable Through Title V Permit
13. NO_x, CO, VOC, SO_x, and PM₁₀ emissions during idling shall not exceed the amount as calculated using the following equation: NO_x, CO, VOC, SO_x, or PM₁₀ (lb/day) = Applicable emission limit (lb/ton) x Furnace permitted production capacity (tons/day). [District Rule 4354] Federally Enforceable Through Title V Permit
14. The PM₁₀ and SO_x emission limits of this permit shall not apply during routine maintenance of the respective add-on control systems. The routine maintenance in each calendar year shall not exceed 144 hours total for all add-on controls and routine maintenance shall be conducted in a manner consistent with good air pollution control practices for minimizing emissions. [District Rule 4354] Federally Enforceable Through Title V Permit
15. The furnace shall be fired on PUC regulated natural gas or LPG/propane fuel only. [District NSR Rule] Federally Enforceable Through Title V Permit
16. The facility shall not use commercial arsenic as a raw material in the production process. [40 CFR 61 Subpart N] Federally Enforceable Through Title V Permit
17. The glass pull rate shall not exceed 250 tons during any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
18. The glass pull rate shall not exceed 87,235 tons during any rolling 12-month period. [District NSR Rule] Federally Enforceable Through Title V Permit
19. The weight percent of cullet per batch shall not be less than 13.6%. Batch weight distribution data shall be available for District inspection during normal operating hours. [District NSR Rule] Federally Enforceable Through Title V Permit
20. NO_x emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 41.67 lb-NO_x/hr and 4.0 lb-NO_x/ton of glass pulled, based on a block 24-hour average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
21. SO_x emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 9.38 lb-SO_x/hr and 0.9 lb-SO_x/ton of glass pulled, based on a 30-day rolling average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
22. CO emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 300 ppmvd @ 8% O₂ and 1.0 lb-CO/ton of glass pulled, based on a 3-hour rolling average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
23. VOC emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 20 ppmvd @ 8% O₂ and 0.25 lb-VOC/ton of glass pulled, based on a 3-hour rolling average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
24. PM₁₀ emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed either of the following limits: 3.78 lb-PM₁₀/hr and 0.5 lb-PM₁₀/ton of glass pulled, based on a block 24-hour average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
25. Daily combined emissions from furnaces N-593-10 (22-C), N-593-12 (22-A), and N-593-13 (22-B) shall not exceed any of the following limits: 3,392.2 lb-NO_x/day, 300.0 lb-PM₁₀/day, and 105.0 lb-filterable PM₁₀/day. [District NSR Rule and 40 CFR 52.233(g)] 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.

26. Combined emissions from furnaces N-593-10 (22-C), N-593-12 (22-A), and N-593-13 (22-B) computed over a rolling 12-month period shall not exceed either of the following limits: 606.540 tons-NOx/year and 55 tons-PM10/year. [District NSR Rule] Federally Enforceable Through Title V Permit
27. All required source testing shall conform to the compliance testing procedures described in District Rule 1081. [District Rule 1081] Federally Enforceable Through Title V Permit
28. 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 NOx, CO, and O2 analyzer during District inspections. 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 Source Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
29. Performance testing shall be conducted for VOC (ppmv and lb/ton of glass pulled), CO (ppmv and lb/ton of glass pulled), PM10 (lb/ton of glass pulled and lb/hr), SOx (lb/ton of glass pulled and lb/hr), and NOx (lb/ton of glass pulled) emissions at least once every calendar year. To qualify as an annual performance test, the test date shall be at least 6 months after, and not more than 18 months after the initial and the previous annual performance test. [District NSR Rule, Rule 4354, and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
30. Furnace conditions during source testing shall be representative of normal operations, with a glass production rate equal to or greater than 60 percent of the permitted glass production capacity. The source test may be conducted at a glass production rate lower than 60 percent of the permitted glass production rate, provided that the permittee demonstrates that the proposed alternative glass production rate is representative of normal operations and the proposed alternative glass production rate is approved by the APCO in writing. [District Rule 4354] Federally Enforceable Through Title V Permit
31. Compliance demonstration (source testing) shall be District witnessed or authorized and samples shall be collected by a certified testing laboratory. Source testing shall be conducted using the methods and procedures specified in this permit. The District must be notified 45 days prior to any compliance source test, and a source test plan must be submitted for approval 30 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
32. Performance testing shall be conducted using following test methods: (1) Oxides of Nitrogen: EPA Method 7E, EPA Method 19, or ARB Method 100; (2) Carbon Monoxide: EPA Method 10, or ARB Method 100; (3) VOC (ppmv): EPA Method 25A expressed in terms of carbon, or ARB Method 100, EPA Method 18 or ARB method 422 to determine emissions of exempt compounds; (4) Stack Gas Oxygen, Carbon Dioxide, Excess Air, and Dry Molecular Weight: EPA Method 3 or 3A, or ARB Method 100; (5) Oxides of Sulfur: EPA Method 6C, EPA Method 8, or ARB Method 100; (6) Filterable PM10: EPA Method 5, EPA Method 201, or EPA Method 201A. An operator choosing EPA Method 5 shall count all PM collected as PM10; (7) Condensible PM10: EPA Method 202 with the following procedures, (7a) Purge the impinger with dry nitrogen for one hour. The one hour purge with dry nitrogen shall be performed as soon as possible after the final leak check of the system, (7b) Neutralize the inorganic portion to a pH of 7.0. Use the procedure, "Determination of NH4 Retained in Sample by Titration" described in Method 202 to neutralize sulfuric acid, (7c) Evaporate the last 1 ml of the inorganic fraction by air drying following evaporation of the bulk of the impinger water in a 105 degrees C oven as described in the first sentence of the Method 202 section titled "Inorganic Fraction Weight Determination". [District NSR Rule, Districts Rule 4354 and 2520, and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
33. 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 measuring PM10 emissions limit. If this option is used, then all of the particulate emissions will be considered to be PM10. [District NSR Rule] Federally Enforceable Through Title V Permit
34. Source testing to measure emissions when firing on LPG fuel need not be performed if the LPG fuel usage for this furnace does not exceed 100 hours during any one calendar year. Once 100 hours of operation using LPG fuel is exceeded, a source test shall be performed within 90 days after the exceedance of 100 hours. [District Rule 1081] 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.

35. For source testing purposes, arithmetic average of three 30-consecutive-minute test runs shall be used to determine compliance with NO_x, CO, VOC, and SO_x emission limits. [District Rules 2201, 4354, 6.4.4] Federally Enforceable Through Title V Permit
36. For source testing purposes, arithmetic average of three 60-consecutive-minute test runs shall be used to determine compliance with PM₁₀ emission limits. [District Rule 4354, 6.4.5] Federally Enforceable Through Title V Permit
37. 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
38. The applicant shall install, maintain, and operate a continuous emissions monitoring system (CEMS) to measure stack NO_x, SO_x, CO, O₂ concentration (if required for compliance determination), and stack gas volumetric flow rate and shall meet the performance specification requirements in 40 CFR, Part 60, Appendix B, Performance Specifications 2, 3, and 4, or shall meet equivalent specifications established by mutual agreement of the District, the California Air Resources Board, and EPA. The CEM systems shall also be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7(c) and 40 CFR 60.13. [District Rules 1080, 2201, and 4354] Federally Enforceable Through Title V Permit
39. The applicant shall install, maintain, and operate a continuous opacity monitor (COM) and shall meet the performance specification requirements in 40 CFR Part 60, Appendix B, or shall meet equivalent specifications established by mutual consent of the District, the California Air Resources Board, and EPA. [District Rules 1080, 2201, and 4101] Federally Enforceable Through Title V Permit
40. The facility shall install and maintain equipment, facilities, and systems compatible with the Districts 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
41. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternate method. [District Rule 1080] Federally Enforceable Through Title V Permit
42. {2251} The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080, 7.1] Federally Enforceable Through Title V Permit
43. Results of the CEM system shall be averaged over the appropriate averaging period, using consecutive 15-minute samples in accordance with all applicable requirements of 40 CFR 60.13, or by other methods deemed equivalent by mutual agreement with the District, California Air Resources Board, and EPA. [District Rule 1080 and 40 CFR 60.13] Federally Enforceable Through Title V Permit
44. Records of the following items shall be maintained: the occurrence and duration of any malfunction, performance testing, calibrations, checks, adjustments, and any period during which the CEM is inoperative, and the CEM emission measurements. [District Rule 1080] Federally Enforceable Through Title V Permit
45. Cylinder gas audits (CGAs) of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy testing is 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
46. The owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F (CGAs and RATAs) and if applicable 40 CFR Part 75, Appendix B (linearity and RATAs) at least once every four calendar quarters and annually within 30 days of the anniversary date of the initial test. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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47. Any visible emission monitoring exceedance showing air contaminant 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 shall be reported by the operator to the APCO within 96 hours. [District Rule 1080] Federally Enforceable Through Title V Permit
48. Any violation of an emission standard, as shown by the stack CEMS, shall be reported to the APCO within 96 hours of detection. [District Rule 1080] Federally Enforceable Through Title V Permit
49. The operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEMS. The operator shall inform the APCO of the intent to shutdown a CEMS at least 24 hours prior to the event. [District Rule 1080] Federally Enforceable Through Title V Permit
50. 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 emissions (averaging period used for data reporting shall correspond to the averaging period for each respective emission standard); corrective actions taken and preventative measures adopted; applicable time and data for 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 or when the CEMS has not been inoperative, repaired, or adjusted. [District Rule 1080] Federally Enforceable Through Title V Permit
51. The permittee shall monitor and record the furnace temperature daily. [District Rule 4354] Federally Enforceable Through Title V Permit
52. The furnace temperature shall be maintained at or above the level for which compliance with the permitted VOC limit has been demonstrated. If the measured furnace temperature is less than the minimum furnace temperature limit, 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
53. The permittee shall keep records of the date and time of the furnace temperature readings and the furnace temperature during the source test that showed compliance with the VOC emission limit. [District Rule 4354] Federally Enforceable Through Title V Permit
54. The permittee shall install, operate, and maintain a continuous monitoring and recording system to accurately measure and record the electrostatic precipitator secondary current and secondary voltage. [District Rule 4354] Federally Enforceable Through Title V Permit
55. The average daily total power input into the electrostatic precipitator shall be calculated by multiplying the average daily secondary amperage by the average daily secondary voltage, both recorded by the continuous monitoring system. [District Rule 4354] Federally Enforceable Through Title V Permit
56. The average daily total power input of the electrostatic precipitator shall be maintained at or above the level for which compliance with the permitted PM10 limit has been demonstrated. If the measured average daily total power input into the electrostatic precipitator drops below the level for which compliance with the permitted PM10 limit has been demonstrated, the permittee shall conduct a certified PM10 source test within 60 days to re-establish the minimum average daily total power input limit. In lieu of conducting a certified PM10 source test, the permittee may stipulate that a violation has occurred, subject to enforcement action. The permittee must then correct the violation (return the average daily total power input to or above the minimum level), 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

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

57. The permittee shall keep records of the date of the measure electrostatic precipitator average daily total power input and the minimum electrostatic precipitator daily total power input established during the source test that showed compliance with the PM10 emission limit of this permit. [District Rule 4354] Federally Enforceable Through Title V Permit
58. The 3-hour block average production-based metal HAP mass emission rate shall not exceed 0.02 lb/ton of glass produced, except during periods of startup, shutdown, or malfunction. Compliance with this requirement shall be verified by keeping product data records. [40 CFR 63.11451 and 40 CFR 63.11455(a)] Federally Enforceable Through Title V Permit
59. Permittee shall keep a copy of the Initial Notification and Notification of Compliance Status for 40 CFR 63 Subpart SSSSSS. [40 CFR 63.11457(a)(1)] Federally Enforceable Through Title V Permit
60. Permittee shall keep records of the product data. The product data shall include the amount (weight or weight percent) of each ingredient in the batch formation, including all glass manufacturing metal HAP compounds. [40 CFR 63.11457(a)(4)] Federally Enforceable Through Title V Permit
61. Replacement filters numbering at least 10% of the total number of filters in the largest bin vent filter using each type of filter shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
62. Each bin vent filter cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
63. Visible emissions from the exhaust of each bin vent filter shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
64. The throughput for each electrostatic precipitator dust silo shall not exceed 1.23 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
65. PM10 emissions from each electrostatic precipitator dust silo shall not exceed 0.00034 lb/ton. [District Rule 2201] Federally Enforceable Through Title V Permit
66. Each bin vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the filter. 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
67. The differential pressure gauge reading range for each bin vent filter shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
68. The differential operating pressure across each bin vent filter shall be monitored and recorded on each day that the unit operates. [District Rule 2201] Federally Enforceable Through Title V Permit
69. Records of all maintenance of the bin vent filters, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
70. A log of daily process weight, wt% cullet per batch, electric boosting, fuel usage and other relevant operating parameters shall be kept on the premises and shall be made available for District inspection upon request. [District Rule 2520, 9.3.2 and District NSR Rule] Federally Enforceable Through Title V Permit
71. During periods of electrostatic precipitator maintenance and furnace startup, the furnace visible emissions shall be recorded by CARB certified personnel during daylight hours using EPA Method 9 within 2 hours of electrostatic precipitator shutdown or bypass and at least three times a day. Each visible emissions evaluation shall be at least 4 hours apart. [District NSR Rule] Federally Enforceable Through Title V Permit
72. The applicant shall maintain accurate records of the time, date, cause (e.g. electrostatic precipitator maintenance, furnace startup, or furnace idle), and duration electrostatic precipitator is not in operation and result of any visible emissions testing during the period. Records shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

73. The permittee shall maintain daily records of the total hours of operation, type and quantity of fuel used, quantity of glass pulled, the NOx emission rate (in lb/ton of glass pulled), the CO emission rate (in lb/ton of glass pulled), and the SOx emission rate (in lb/ton of glass pulled). The permittee shall also maintain records of source tests, the acceptable range for each approved key system operating parameter as established by source testing, all instances of maintenance and repair, any malfunction, and records of all periods of idling, startup, or shutdown. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
74. Permittee shall keep a record of the rolling 12-month quantity of glass pulled. This record shall be updated on a monthly basis. [District Rule 2520] Federally Enforceable Through Title V Permit
75. Permittee shall keep a record of the combined daily NOx emissions (based on CEMs data), the combined daily PM10 emissions (based on annual source test results and daily production data), and the combined daily filterable PM10 emissions (based on annual source test results and daily production data), each in pounds, for furnaces N-593-10 (22-C), N-593-12 (22-A) and N-593-13 (22-B). [District Rule 2201] Federally Enforceable Through Title V Permit
76. Permittee shall keep a record of the combined rolling 12-month NOx and PM10 emissions for furnaces N-593-10 (22-C), N-593-12 (22-A), and N-593-13 (22-C). This record shall be updated on a monthly basis. [District Rule 2201] Federally Enforceable Through Title V Permit
77. 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, 4354, and 40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
78. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rules 4201 and 4202. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
79. The requirements of District Rule 4301 were determined to not apply to this unit. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
80. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4801 and San Joaquin County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
81. The requirements of 40 CFR 60, Subpart CC were determined to not apply to this unit because the unit was constructed prior to the effective date in the regulation and not been modified (according to the definition of "modified" in the regulation). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
82. The requirements of 40 CFR 61, Subpart N were determined to not apply to this unit. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-13-11

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

67 MMBTU/HR OXYGEN-ENRICHED AIR STAGING (OEAS) GLASS MELTING FURNACE #22-B WITH A CUSTOM GEA BISCHOFF INC. DRY SOX SCRUBBER, A GEA BISCHOFF MODEL BS 780 10 / 5.0 / 2 X 11 / 0.4 ELECTROSTATIC PRECIPITATOR, WITH A 153 CUBIC FOOT STORAGE SILO AND A 190 CUBIC FOOT STORAGE SILO, EACH WITH A MET-PRO CORP FLEX-KLEEN BIN VENT FILTER

PERMIT UNIT REQUIREMENTS

1. All equipment, facilities, or systems installed or used to achieve compliance with the terms and conditions of the Federal Major Stationary Source permit shall at all times be maintained in good working order and be operated as efficiently as possible to minimize air pollutant emissions. [40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201 and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E=3.59P^{0.62}$ ($P < 30$ tph) or $E=17.31P^{0.16}$ ($P > 30$ tph). [District Rule 4202 and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
4. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [San Joaquin County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit
5. {1898} 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]
6. The exhaust from the glass melting furnace shall be vented through an operational SOx scrubber and electrostatic precipitator, except during periods of furnace startup (when technologically infeasible), furnace idle (when technologically infeasible), and during add-on control system maintenance. Scheduled maintenance of add-on control system shall be accomplished during periods of furnace idling whenever possible. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
7. The emission limitations of District Rule 4354 shall not apply during periods of start-up, shutdown, and idling, as defined by District Rule 4354. The permittee shall notify the District at least 24 hours prior to initiating idling, shutdown, or start-up of the glass furnace and this notification shall include: The 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
8. Start-up is defined as the period of time, after initial construction of a furnace rebuild, during which a glass melting furnace is heated to operating temperature by the primary furnace combustion system and instrumentation are brought to stabilization. Shutdown is defined as the period of time during which a glass melting furnace is purposely allowed to cool from operating temperature and molten glass is removed from the tank for the purposes of a furnace rebuild. Idling is defined as the operation of the furnace at less than 25 percent 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

9. During startup, the permittee shall comply with the requirements of Section 5.5 of District Rule 4354. [District Rule 4354] Federally Enforceable Through Title V Permit
10. The duration of shutdown of the furnace, as measured from the time the furnace operations drop below the idle threshold (operation of the furnace at less than 25 percent of the permitted glass production capacity or fuel use capacity) to when all emissions from the furnace cease, shall not exceed 20 days. [District Rule 4354] Federally Enforceable Through Title V Permit
11. During periods when the furnace is in idle state, the glass throughput shall not exceed 50 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
12. The emission control system shall be in operation whenever technologically feasible during furnace idling to minimize emissions. [District Rule 4354] Federally Enforceable Through Title V Permit
13. NO_x, CO, VOC, SO_x, and PM₁₀ emissions during idling shall not exceed the amount as calculated using the following equation: NO_x, CO, VOC, SO_x, or PM₁₀ (lb/day) = Applicable emission limit (lb/ton) x Furnace permitted production capacity (tons/day). [District Rule 4354] Federally Enforceable Through Title V Permit
14. The PM₁₀ and SO_x emission limits of this permit shall not apply during routine maintenance of the respective add-on control systems. The routine maintenance in each calendar year shall not exceed 144 hours total for all add-on controls and routine maintenance shall be conducted in a manner consistent with good air pollution control practices for minimizing emissions. [District Rule 4354] Federally Enforceable Through Title V Permit
15. The furnace shall be fired on PUC regulated natural gas or LPG/propane fuel only. [District NSR Rule] Federally Enforceable Through Title V Permit
16. The facility shall not use commercial arsenic as a raw material in the production process. [40 CFR 61 Subpart N] Federally Enforceable Through Title V Permit
17. The glass pull rate shall not exceed 340 tons during any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
18. The glass pull rate shall not exceed 124,100 tons during any rolling 12-month period. [District NSR Rule] Federally Enforceable Through Title V Permit
19. The weight percent of cullet per batch shall not be less than 13.6%. Batch weight distribution data shall be available for District inspection during normal operating hours. [District NSR Rule] Federally Enforceable Through Title V Permit
20. NO_x emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 56.67 lb-NO_x/hr and 4.0 lb-NO_x/ton of glass pulled, based on a block 24-hour average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
21. SO_x emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 12.75 lb-SO_x/hr and 0.9 lb-SO_x/ton of glass pulled, based on a 30-day rolling average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
22. CO emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 300 ppmvd @ 8% O₂ and 1.0 lb-CO/ton of glass pulled, based on a 3-hour rolling average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
23. VOC emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 20 ppmvd @ 8% O₂ and 0.25 lb-VOC/ton of glass pulled, based on a 3-hour rolling average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
24. PM₁₀ emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed either of the following limits: 5.38 lb-PM₁₀/hr and 0.5 lb-PM₁₀/ton of glass pulled, based on a block 24-hour average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
25. Daily combined emissions from furnaces N-593-10 (22-C), N-593-12 (22-A), and N-593-13 (22-B) shall not exceed any of the following limits: 3,392.2 lb-NO_x/day, 300.0 lb-PM₁₀/day, and 105.0 lb-filterable PM₁₀/day. [District NSR Rule and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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26. Combined emissions from furnaces N-593-10 (22-C), N-593-12 (22-A), and N-593-13 (22-B) computed over a rolling 12-month period shall not exceed either of the following limits: 606.540 tons-NO_x/year and 55 tons-PM₁₀/year. [District NSR Rule] Federally Enforceable Through Title V Permit
27. All required source testing shall conform to the compliance testing procedures described in District Rule 1081. [District Rule 1081] Federally Enforceable Through Title V Permit
28. 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 in accordance with the CARB regulation titled California Air Resources Board Air Monitoring Quality Assurance Volume VI, Standard Operating Procedures for Stationary Source Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
29. Performance testing shall be conducted for VOC (ppmv and lb/ton of glass pulled), CO (ppmv and lb/ton of glass pulled), PM₁₀ (lb/ton of glass pulled and lb/hr), SO_x (lb/ton of glass pulled and lb/hr), and NO_x (lb/ton of glass pulled) emissions at least once every calendar year. To qualify as an annual performance test, the test date shall be at least 6 months after, and not more than 18 months after the initial and the previous annual performance test. [District NSR Rule, Rule 4354, and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
30. Furnace conditions during source testing shall be representative of normal operations, with a glass production rate equal to or greater than 60 percent of the permitted glass production capacity. The source test may be conducted at a glass production rate lower than 60 percent of the permitted glass production rate, provided that the permittee demonstrates that the proposed alternative glass production rate is representative of normal operations and the proposed alternative glass production rate is approved by the APCO in writing. [District Rule 4354] Federally Enforceable Through Title V Permit
31. Compliance demonstration (source testing) shall be District witnessed or authorized and samples shall be collected by a certified testing laboratory. Source testing shall be conducted using the methods and procedures specified in this permit. The District must be notified 45 days prior to any compliance source test, and a source test plan must be submitted for approval 30 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
32. Performance testing shall be conducted using following test methods: (1) Oxides of Nitrogen: EPA Method 7E, EPA Method 19, or ARB Method 100; (2) Carbon Monoxide: EPA Method 10, or ARB Method 100; (3) VOC (ppmv): EPA Method 25A expressed in terms of carbon, or ARB Method 100, EPA Method 18 or ARB method 422 to determine emissions of exempt compounds; (4) Stack Gas Oxygen, Carbon Dioxide, Excess Air, and Dry Molecular Weight: EPA Method 3 or 3A, or ARB Method 100; (5) Oxides of Sulfur: EPA Method 6C, EPA Method 8, or ARB Method 100; (6) Filterable PM₁₀: EPA Method 5, EPA Method 201, or EPA Method 201A. An operator choosing EPA Method 5 shall count all PM collected as PM₁₀; (7) Condensable PM₁₀: EPA Method 202 with the following procedures, (7a) Purge the impinger with dry nitrogen for one hour. The one hour purge with dry nitrogen shall be performed as soon as possible after the final leak check of the system, (7b) Neutralize the inorganic portion to a pH of 7.0. Use the procedure, "Determination of NH₄ Retained in Sample by Titration" described in Method 202 to neutralize sulfuric acid, (7c) Evaporate the last 1 ml of the inorganic fraction by air drying following evaporation of the bulk of the impinger water in a 105 degrees C oven as described in the first sentence of the Method 202 section titled "Inorganic Fraction Weight Determination". [District NSR Rule, Districts Rule 4354 and 2520, and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
33. 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 measuring PM₁₀ emissions limit. If this option is used, then all of the particulate emissions will be considered to be PM₁₀. [District NSR Rule] Federally Enforceable Through Title V Permit
34. Source testing to measure emissions when firing on LPG fuel need not be performed if the LPG fuel usage for this furnace does not exceed 100 hours during any one calendar year. Once 100 hours of operation using LPG fuel is exceeded, a source test shall be performed within 90 days after the exceedance of 100 hours. [District Rule 1081] Federally Enforceable Through Title V Permit

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

35. For source testing purposes, arithmetic average of three 30-consecutive-minute test runs shall be used to determine compliance with NO_x, CO, VOC, and SO_x emission limits. [District Rules 2201, 4354, 6.4.4] Federally Enforceable Through Title V Permit
36. For source testing purposes, arithmetic average of three 60-consecutive-minute test runs shall be used to determine compliance with PM₁₀ emission limits. [District Rule 4354, 6.4.5] Federally Enforceable Through Title V Permit
37. 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
38. The applicant shall install, maintain, and operate a continuous emissions monitoring system (CEMS) to measure stack NO_x, SO_x, CO, O₂ concentration (if required for compliance determination), and stack gas volumetric flow rate and shall meet the performance specification requirements in 40 CFR, Part 60, Appendix B, Performance Specifications 2, 3, and 4, or shall meet equivalent specifications established by mutual agreement of the District, the California Air Resources Board, and EPA. The CEM systems shall also be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7(c) and 40 CFR 60.13. [District Rules 1080, 2201, and 4354] Federally Enforceable Through Title V Permit
39. The applicant shall install, maintain, and operate a continuous opacity monitor (COM) and shall meet the performance specification requirements in 40 CFR Part 60, Appendix B, or shall meet equivalent specifications established by mutual consent of the District, the California Air Resources Board, and EPA. [District Rules 1080, 2201, and 4101] Federally Enforceable Through Title V Permit
40. The facility shall install and maintain equipment, facilities, and systems compatible with the Districts 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
41. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternate method. [District Rule 1080] Federally Enforceable Through Title V Permit
42. {2251} The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080, 7.1] Federally Enforceable Through Title V Permit
43. Results of the CEM system shall be averaged over the appropriate averaging period, using consecutive 15-minute samples in accordance with all applicable requirements of 40 CFR 60.13, or by other methods deemed equivalent by mutual agreement with the District, California Air Resources Board, and EPA. [District Rule 1080 and 40 CFR 60.13] Federally Enforceable Through Title V Permit
44. Records of the following items shall be maintained: the occurrence and duration of any malfunction, performance testing, calibrations, checks, adjustments, and any period during which the CEM is inoperative, and the CEM emission measurements. [District Rule 1080] Federally Enforceable Through Title V Permit
45. Cylinder gas audits (CGAs) of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy testing is 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
46. The owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F (CGAs and RATAs) and if applicable 40 CFR Part 75, Appendix B (linearity and RATAs) at least once every four calendar quarters and annually within a 30 days of the anniversary date of the initial test. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: OWENS-BROCKWAY GLASS CONTAINER

Location: 14700 W SCHULTE ROAD, TRACY, CA 95376

N-593-13-11: May 8 2013 3:07PM - HARADERJ

47. Any visible emission monitoring exceedance showing air contaminant 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 shall be reported by the operator to the APCO within 96 hours. [District Rule 1080] Federally Enforceable Through Title V Permit
48. Any violation of an emission standard, as shown by the stack CEMS, shall be reported to the APCO within 96 hours of detection. [District Rule 1080] Federally Enforceable Through Title V Permit
49. The operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEMS. The operator shall inform the APCO of the intent to shutdown a CEMS at least 24 hours prior to the event. [District Rule 1080] Federally Enforceable Through Title V Permit
50. 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 emissions (averaging period used for data reporting shall correspond to the averaging period for each respective emission standard); corrective actions taken and preventative measures adopted; applicable time and data for 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 or when the CEMS has not been inoperative, repaired, or adjusted. [District Rule 1080] Federally Enforceable Through Title V Permit
51. The permittee shall monitor and record the furnace temperature daily. [District Rule 4354] Federally Enforceable Through Title V Permit
52. The furnace temperature shall be maintained at or above the level for which compliance with the permitted VOC limit has been demonstrated. If the measured furnace temperature is less than the minimum furnace temperature limit, 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
53. The permittee shall keep records of the date and time of the furnace temperature readings and the furnace temperature during the source test that showed compliance with the VOC emission limit. [District Rule 4354] Federally Enforceable Through Title V Permit
54. The permittee shall install, operate, and maintain a continuous monitoring and recording system to accurately measure and record the electrostatic precipitator secondary current and secondary voltage. [District Rule 4354] Federally Enforceable Through Title V Permit
55. The average daily total power input into the electrostatic precipitator shall be calculated by multiplying the average daily secondary amperage by the average daily secondary voltage, both recorded by the continuous monitoring system. [District Rule 4354] Federally Enforceable Through Title V Permit
56. The average daily total power input of the electrostatic precipitator shall be maintained at or above the level for which compliance with the permitted PM10 limit has been demonstrated. If the measured average daily total power input into the electrostatic precipitator drops below the level for which compliance with the permitted PM10 limit has been demonstrated, the permittee shall conduct a certified PM10 source test within 60 days to re-establish the minimum average daily total power input limit. In lieu of conducting a certified PM10 source test, the permittee may stipulate that a violation has occurred, subject to enforcement action. The permittee must then correct the violation (return the average daily total power input to or above the minimum level), 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

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

57. The permittee shall keep records of the date of the measure electrostatic precipitator average daily total power input and the minimum electrostatic precipitator daily total power input established during the source test that showed compliance with the PM10 emission limit of this permit. [District Rule 4354] Federally Enforceable Through Title V Permit
58. The 3-hour block average production-based metal HAP mass emission rate shall not exceed 0.02 lb/ton of glass produced, except during periods of startup, shutdown, or malfunction. Compliance with this requirement shall be verified by keeping product data records. [40 CFR 63.11451 and 40 CFR 63.11455(a)] Federally Enforceable Through Title V Permit
59. Permittee shall keep a copy of the Initial Notification and Notification of Compliance Status for 40 CFR 63 Subpart SSSSSS. [40 CFR 63.11457(a)(1)] Federally Enforceable Through Title V Permit
60. Permittee shall keep records of the product data. The product data shall include the amount (weight or weight percent) of each ingredient in the batch formation, including all glass manufacturing metal HAP compounds. [40 CFR 63.11457(a)(4)] Federally Enforceable Through Title V Permit
61. Replacement filters numbering at least 10% of the total number of filters in the largest bin vent filter using each type of filter shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
62. Each bin vent filter cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
63. Visible emissions from the exhaust of each bin vent filter shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
64. The throughput for each electrostatic precipitator dust silo shall not exceed 1.64 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
65. PM10 emissions from each electrostatic precipitator dust silo shall not exceed 0.00034 lb/ton. [District Rule 2201] Federally Enforceable Through Title V Permit
66. Each bin vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the filter. 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
67. The differential pressure gauge reading range for each bin vent filter shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
68. The differential operating pressure across each bin vent filter shall be monitored and recorded on each day that the unit operates. [District Rule 2201] Federally Enforceable Through Title V Permit
69. Records of all maintenance of each bin vent filter, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
70. A log of daily process weight, wt% cullet per batch, electric boosting, fuel usage and other relevant operating parameters shall be kept on the premises and shall be made available for District inspection upon request. [District Rule 2520, 9.3.2 and District NSR Rule] Federally Enforceable Through Title V Permit
71. During periods of electrostatic precipitator maintenance and furnace startup, the furnace visible emissions shall be recorded by CARB certified personnel during daylight hours using EPA Method 9 within 2 hours of electrostatic precipitator shutdown or bypass and at least three times a day. Each visible emissions evaluation shall be at least 4 hours apart. [District NSR Rule] Federally Enforceable Through Title V Permit
72. The applicant shall maintain accurate records of the time, date, cause (e.g. electrostatic precipitator maintenance, furnace startup, or furnace idle), and duration electrostatic precipitator is not in operation and result of any visible emissions testing during the period. Records shall be made available for District inspection upon request. [District Rule 1070] 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.

73. The permittee shall maintain daily records of the total hours of operation, type and quantity of fuel used, quantity of glass pulled, the NOx emission rate (in lb/ton of glass pulled), the CO emission rate (in lb/ton of glass pulled), and the SOx emission rate (in lb/ton of glass pulled). The permittee shall also maintain records of source tests, the acceptable range for each approved key system operating parameter as established by source testing, all instances of maintenance and repair, any malfunction, and records of all periods of idling, startup, or shutdown. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
74. Permittee shall keep a record of the rolling 12-month quantity of glass pulled. This record shall be updated on a monthly basis. [District Rule 2520] Federally Enforceable Through Title V Permit
75. Permittee shall keep a record of the combined daily NOx emissions (based on CEMs data), the combined daily PM10 emissions (based on annual source test results and daily production data), and the combined daily filterable PM10 emissions (based on annual source test results and daily production data), each in pounds, for furnaces N-593-10 (22-C), N-593-12 (22-A) and N-593-13 (22-B). [District Rule 2201] Federally Enforceable Through Title V Permit
76. Permittee shall keep a record of the combined rolling 12-month NOx and PM10 emissions for furnaces N-593-10 (22-C), N-593-12 (22-A), and N-593-13 (22-C). This record shall be updated on a monthly basis. [District Rule 2201] Federally Enforceable Through Title V Permit
77. 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, 4354, and 40 CFR 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
78. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rules 4201 and 4202. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
79. The requirements of District Rule 4301 were determined to not apply to this unit. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
80. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4801 and San Joaquin County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
81. The requirements of 40 CFR 60, Subpart CC were determined to not apply to this unit because the unit was constructed prior to the effective date in the regulation and not been modified (according to the definition of "modified" in the regulation). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
82. The requirements of 40 CFR 61, Subpart N were determined to not apply to this unit. 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.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-20-4

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

4,770 GAL CRUSHED CULLET STORAGE SILO #1 SERVED BY A FLEX-KLEEN BAGHOUSE (SHARED WITH CULLET SILOS #2 AND #3)

PERMIT UNIT REQUIREMENTS

1. 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
2. The differential pressure across each compartment of the baghouse shall be maintained between 1" and 8" water column. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 4102]
5. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
6. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 and San Joaquin County Rule 404. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
7. Dust collector shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. 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
10. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The differential pressure across each compartment of the baghouse shall be checked and the results recorded weekly. If the differential pressure across each compartment of the baghouse is not between 1" and 8" water column, corrective action is required prior to further operation of the equipment. Corrective action means that the cause of the improper pressure differential is corrected before operation of the equipment is resumed. [District Rule 2520, 9.3.2 and 9.4.2]
Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-21-4

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

4,770 GAL CRUSHED CULLET STORAGE SILO #2 SERVED BY A FLEX-KLEEN BAGHOUSE (SHARED WITH CULLET SILOS #1 AND #3)

PERMIT UNIT REQUIREMENTS

1. 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
2. The differential pressure across each compartment of the baghouse shall be maintained between 1" and 8" water column. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 4102]
5. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
6. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 and San Joaquin County Rule 404. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
7. Dust collector shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. 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
10. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The differential pressure across each compartment of the baghouse shall be checked and the results recorded weekly. If the differential pressure across each compartment of the baghouse is not between 1" and 8" water column, corrective action is required prior to further operation of the equipment. Corrective action means that the cause of the improper pressure differential is corrected before operation of the equipment is resumed. [District Rule 2520, 9.3.2 and 9.4.2]
Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-22-4

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

4,770 GAL CRUSHED CULLET STORAGE SILO #3 SERVED BY A FLEX-KLEEN BAGHOUSE (SHARED WITH CULLET SILOS #1 AND #2)

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PERMIT UNIT REQUIREMENTS

1. 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
2. The differential pressure across each compartment of the baghouse shall be maintained between 1" and 8" water column. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 4102]
5. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
6. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 and San Joaquin County Rule 404. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
7. Dust collector shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. 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
10. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The differential pressure across each compartment of the baghouse shall be checked and the results recorded weekly. If the differential pressure across each compartment of the baghouse is not between 1" and 8" water column, corrective action is required prior to further operation of the equipment. Corrective action means that the cause of the improper pressure differential is corrected before operation of the equipment is resumed. [District Rule 2520, 9.3.2 and 9.4.2]
Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-27-5

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

240 BHP CATERPILLAR MODEL #3306B DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 150 KW ELECTRICAL GENERATOR (A)

PERMIT UNIT REQUIREMENTS

1. The NOx emission rate shall not exceed 10.0 grams/hp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] 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. 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. 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 Subpart ZZZZ] Federally Enforceable Through Title V Permit
6. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. The operator shall: (1) Change the oil and filter every 500 hours of operation, or annually, whichever comes first; (2) Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
7. 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
8. 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 20 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] 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 Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used 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

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 Rule 4702, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. 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
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 Rule 4702 and 17 CCR 93115] 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 4201, San Joaquin County Rule 404, District Rule 4801 and San Joaquin County Rule 407. 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.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-28-5

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

380 BHP CATERPILLAR MODEL #3406 DIT DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 260 KW GENERATOR (B)

PERMIT UNIT REQUIREMENTS

1. The NOx emission rate shall not exceed 10.0 grams/hp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] 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. 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. 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 Subpart ZZZZ] Federally Enforceable Through Title V Permit
6. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. The operator shall: (1) Change the oil and filter every 500 hours of operation, or annually, whichever comes first; (2) Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
7. 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
8. 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 20 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] 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 Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used 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

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 Rule 4702, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. 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
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 Rule 4702 and 17 CCR 93115] 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 4201, San Joaquin County Rule 404, District Rule 4801 and San Joaquin County Rule 407. 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.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-29-5

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

534 BHP CATERPILLAR MODEL #3406 DITA DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 350 KW ELECTRICAL GENERATOR (C)

PERMIT UNIT REQUIREMENTS

1. The NOx emission rate shall not exceed 7.2 grams/hp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] 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. 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. 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 Subpart ZZZZ] Federally Enforceable Through Title V Permit
6. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. The operator shall: (1) Change the oil and filter every 500 hours of operation, or annually, whichever comes first; (2) Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
7. 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
8. 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 20 hours per calendar year. [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] 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 Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used 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

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 Rule 4702, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. 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
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 Rule 4702 and 17 CCR 93115] 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 4201, San Joaquin County Rule 404, District Rule 4801 and San Joaquin County Rule 407. 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.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-31-5

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

136 BHP CUMMINS MODEL #V-378-F2 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP
(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. 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
3. 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 Subpart ZZZZ] Federally Enforceable Through Title V Permit
4. This engine shall be operated only for maintenance and testing of the engine, 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, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
5. 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 Rule 4702] Federally Enforceable Through Title V Permit
6. 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, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
7. 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. [District Rule 2520, 9.4.2 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. The operator shall: (1) Change the oil and filter every 500 hours of operation, or annually, whichever comes first; (2) Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ] 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. 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
10. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201, District Rule 4801 and San Joaquin County Rule 407. 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.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-32-5

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

185 BHP CATERPILLAR MODEL #3208 DINA DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP (3)

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. 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
3. 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 Subpart ZZZZ] Federally Enforceable Through Title V Permit
4. This engine shall be operated only for maintenance and testing of the engine, 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, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
5. 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 Rule 4702] Federally Enforceable Through Title V Permit
6. 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, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
7. 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. [District Rule 2520, 9.4.2 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. The operator shall: (1) Change the oil and filter every 500 hours of operation, or annually, whichever comes first; (2) Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ] 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. 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
10. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201, District Rule 4801 and San Joaquin County Rule 407. 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.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-36-3

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

IRON CHROMITE PRE-MIX SYSTEM FOR FURNACE #22-A INCLUDING AN IRON CHROMITE BULK BAG UNLOADER SERVED BY NOL-TEC MODEL #350 DUST COLLECTOR, HOPPER, MIXER, STAGING HOPPER, FLEXIBLE SCREW FEEDER, TRANSPORTER, AIR INJECTORS, AND RECEIVING HOPPER SERVED BY A NOL-TEC MODEL #84-NT-16 BAGHOUSE, SCALE, AND SUPPORTING VALVES

PERMIT UNIT REQUIREMENTS

1. There shall be no visible emissions from the baghouse. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Material removed from the dust collectors shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The baghouses cleaning frequency and duration shall be adjusted to optimize the control efficiency per manufacturer's recommendations. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The NOL-TEC Model 84-NT-16 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
5. The differential pressure across each compartment of the baghouse shall be maintained between 1" and 8" water column. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
8. Emissions from the NOL-TEC Model 350 baghouse shall not exceed 0.00024 lb-PM10 per ton of Iron Chromite throughput. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emissions from the NOL-TEC Model 84-NT-16 baghouse shall not exceed 0.0049 lb-PM10 per ton of Iron Chromite throughput. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of Iron Chromite shall not exceed 2.10 ton per day (4,200 lb per day). [District Rule 2201] Federally Enforceable Through Title V Permit
11. The pre-mix amount of soda-ash and Iron Chromite shall not exceed 4.20 ton per day (8,400 lb/day). [District Rule 2201] Federally Enforceable Through Title V Permit
12. Daily records of the Iron Chromite and soda ash throughput for the pre-mix shall be maintained, retained for at least five years, and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
13. There shall be no fugitive emissions from conveying and elevating systems. Compliance with this requirement shall be demonstrated by conducting weekly inspections of the equipment and maintaining records of the inspections. [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 thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2201] Federally Enforceable Through Title V Permit
16. When operated visible emissions from the baghouse controlling the iron chromite pre-mix system shall be checked and the results recorded daily. If visible emissions are observed, corrective action is required prior to further operation of the equipment. Corrective action means that visible emissions are eliminated before operation of the equipment is resumed. If visible emissions cannot be corrected within 24 hours, a visible emissions test shall be conducted by a trained observer using EPA method 9 within 72 hours. A record of the results of these observations shall be maintained. Such records shall include the observer's name and affiliation, the date, time, sky condition, and the observer's location relative to the source. [40 CFR Part 64] Federally Enforceable Through Title V Permit
17. The permittee shall maintain daily records of the differential pressure across the baghouse filter. [40 CFR 64.9] Federally Enforceable Through Title V Permit
18. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR 64.9] Federally Enforceable Through Title V Permit
19. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR 64.8] Federally Enforceable Through Title V Permit
20. 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 2201] Federally Enforceable Through Title V Permit
21. The differential pressure across each compartment of the baghouse shall be checked and the results recorded weekly. If the differential pressure across each compartment of the baghouse is not between 1" and 8" water column, corrective action is required prior to further operation of the equipment. Corrective action means that the cause of the improper pressure differential is corrected before operation of the equipment is resumed. [District Rule 2520, 9.3.2 and 9.4.2] Federally Enforceable Through Title V Permit

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

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-37-3

EXPIRATION DATE: 8/7/31/2012

EQUIPMENT DESCRIPTION:

HOT END SURFACE TREATMENT HOOD A2 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-11, '-38, '-39, '-40, AND '-41)

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. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse serving the hot end surface treatment systems shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The material removed from the baghouse and transferred into the receiver shall be prevented from being re-entrained into the atmosphere. No material shall accumulate outside of the receiver. [District Rule 4102]
8. The receiver shall remain sealed at all times except during maintenance. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emission rates from this unit shall not exceed either of the following limits: 0.01107 lb-PM10/lb-Monobutyltin Trichloride (MBTT) or 0.050 lb-VOC/lb-MBTT. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of MBTT used in this hot end surface treatment system shall not exceed 1.66 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed 8.91 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Ammonia (NH3) emissions combined for hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed either of the following limits: 1.8 lb/hr or 150 ppmvd. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The permittee shall monitor and record the stack concentration (in ppmv) of NH₃ at least once every week using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit. [District Rule 4102]
14. Source testing to determine the rate of VOC, expressed as lb-VOC/lb-MBTT, shall be conducted at least once every twelve (12) months. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
15. VOC source testing shall be conducted using EPA Methods 18, 25, 25A, 25B, or ARB Method 100. Results shall be converted to lb-VOC/lb-MBTT. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
16. The stack gas velocities shall be determined using EPA Method 2, the stack gas moisture content shall be determined using EPA Method 4, and the gas analysis for the determination of dry molecular weight shall be determined using EPA Method 3. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. 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
19. The baghouse shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Baghouse filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Pressure gauges shall be inspected weekly and the results shall be recorded and made available for District inspection upon request. Corrective actions shall be implemented on the control equipment if indicated by the inspections. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Records of baghouse 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, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of the hourly and daily amount of MBTT used in the line shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Records of the combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Records of the weekly NH₃ concentration from the glass treatment operations shall be maintained. [District Rule 4102]
27. Records of the daily amount of glass treated from lines 22A & 22B shall be maintained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. 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
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201. 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.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-38-3

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

HOT END SURFACE TREATMENT HOOD B1 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-11, '-37, '-39, '-40, AND '-41)

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. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse serving the hot end surface treatment systems shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The material removed from the baghouse and transferred into the receiver shall be prevented from being re-entrained into the atmosphere. No material shall accumulate outside of the receiver. [District Rule 4102]
8. The receiver shall remain sealed at all times except during maintenance. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emission rates from this unit shall not exceed either of the following limits: 0.01107 lb-PM10/lb-Monobutyltin Trichloride (MBTT) or 0.050 lb-VOC/lb-MBTT. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of MBTT used in this hot end surface treatment system shall not exceed 1.66 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed 8.91 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Ammonia (NH₃) emissions combined for hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed either of the following limits: 1.8 lb/hr or 150 ppmvd. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The permittee shall monitor and record the stack concentration (in ppmv) of NH₃ at least once every week using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit. [District Rule 4102]
14. Source testing to determine the rate of VOC, expressed as lb-VOC/lb-MBTT, shall be conducted at least once every twelve (12) months. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
15. VOC source testing shall be conducted using EPA Methods 18, 25, 25A, 25B, or ARB Method 100. Results shall be converted to lb-VOC/lb-MBTT. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
16. The stack gas velocities shall be determined using EPA Method 2, the stack gas moisture content shall be determined using EPA Method 4, and the gas analysis for the determination of dry molecular weight shall be determined using EPA Method 3. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. 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
19. The baghouse shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Baghouse filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Pressure gauges shall be inspected weekly and the results shall be recorded and made available for District inspection upon request. Corrective actions shall be implemented on the control equipment if indicated by the inspections. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Records of baghouse 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, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of the hourly and daily amount of MBTT used in the line shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Records of the combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Records of the weekly NH₃ concentration from the glass treatment operations shall be maintained. [District Rule 4102]
27. Records of the daily amount of glass treated from lines 22A & 22B shall be maintained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. 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
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201. 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.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-39-3

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

HOT END SURFACE TREATMENT HOOD B2 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-11, '-37, '-38, '-40, AND '-41)

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. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse serving the hot end surface treatment systems shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The material removed from the baghouse and transferred into the receiver shall be prevented from being re-entrained into the atmosphere. No material shall accumulate outside of the receiver. [District Rule 4102]
8. The receiver shall remain sealed at all times except during maintenance. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emission rates from this unit shall not exceed either of the following limits: 0.01107 lb-PM10/lb-Monobutyltin Trichloride (MBTT) or 0.050 lb-VOC/lb-MBTT. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of MBTT used in this hot end surface treatment system shall not exceed 1.66 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed 8.91 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Ammonia (NH₃) emissions combined for hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed either of the following limits: 1.8 lb/hr or 150 ppmvd. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The permittee shall monitor and record the stack concentration (in ppmv) of NH₃ at least once every week using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit. [District Rule 4102]
14. Source testing to determine the rate of VOC, expressed as lb-VOC/lb-MBTT, shall be conducted at least once every twelve (12) months. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
15. VOC source testing shall be conducted using EPA Methods 18, 25, 25A, 25B, or ARB Method 100. Results shall be converted to lb-VOC/lb-MBTT. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
16. The stack gas velocities shall be determined using EPA Method 2, the stack gas moisture content shall be determined using EPA Method 4, and the gas analysis for the determination of dry molecular weight shall be determined using EPA Method 3. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. 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
19. The baghouse shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Baghouse filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Pressure gauges shall be inspected weekly and the results shall be recorded and made available for District inspection upon request. Corrective actions shall be implemented on the control equipment if indicated by the inspections. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Records of baghouse 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, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of the hourly and daily amount of MBTT used in the line shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Records of the combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Records of the weekly NH₃ concentration from the glass treatment operations shall be maintained. [District Rule 4102]
27. Records of the daily amount of glass treated from lines 22A & 22B shall be maintained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. 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
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201. 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.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-40-3

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

HOT END SURFACE TREATMENT HOOD C2 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-11, '-37, '-38, '-39, AND '-41)

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. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse serving the hot end surface treatment systems shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The material removed from the baghouse and transferred into the receiver shall be prevented from being re-entrained into the atmosphere. No material shall accumulate outside of the receiver. [District Rule 4102]
8. The receiver shall remain sealed at all times except during maintenance. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emission rates from this unit shall not exceed either of the following limits: 0.01107 lb-PM10/lb-Monobutyltin Trichloride (MBTT) or 0.050 lb-VOC/lb-MBTT. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of MBTT used in this hot end surface treatment system shall not exceed 1.66 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed 8.91 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Ammonia (NH₃) emissions combined for hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed either of the following limits: 1.8 lb/hr or 150 ppmvd. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The permittee shall monitor and record the stack concentration (in ppmv) of NH₃ at least once every week using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit. [District Rule 4102]
14. Source testing to determine the rate of VOC, expressed as lb-VOC/lb-MBTT, shall be conducted at least once every twelve (12) months. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
15. VOC source testing shall be conducted using EPA Methods 18, 25, 25A, 25B, or ARB Method 100. Results shall be converted to lb-VOC/lb-MBTT. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
16. The stack gas velocities shall be determined using EPA Method 2, the stack gas moisture content shall be determined using EPA Method 4, and the gas analysis for the determination of dry molecular weight shall be determined using EPA Method 3. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. 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
19. The baghouse shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Baghouse filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Pressure gauges shall be inspected weekly and the results shall be recorded and made available for District inspection upon request. Corrective actions shall be implemented on the control equipment if indicated by the inspections. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Records of baghouse 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, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of the hourly and daily amount of MBTT used in the line shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Records of the combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Records of the weekly NH₃ concentration from the glass treatment operations shall be maintained. [District Rule 4102]
27. Records of the daily amount of glass treated from line 22C shall be maintained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. 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
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201. 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.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-41-3

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

HOT END SURFACE TREATMENT HOOD C3 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-11, '-37, '-38, '-39, AND '-40)

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. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse serving the hot end surface treatment systems shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The material removed from the baghouse and transferred into the receiver shall be prevented from being re-entrained into the atmosphere. No material shall accumulate outside of the receiver. [District Rule 4102]
8. The receiver shall remain sealed at all times except during maintenance. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emission rates from this unit shall not exceed either of the following limits: 0.01107 lb-PM10/lb-Monobutyltin Trichloride (MBTT) or 0.050 lb-VOC/lb-MBTT. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of MBTT used in this hot end surface treatment system shall not exceed 1.66 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed 8.91 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Ammonia (NH₃) emissions combined for hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed either of the following limits: 1.8 lb/hr or 150 ppmvd. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

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

13. The permittee shall monitor and record the stack concentration (in ppmv) of NH₃ at least once every week using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit. [District Rule 4102]
14. Source testing to determine the rate of VOC, expressed as lb-VOC/lb-MBTT, shall be conducted at least once every twelve (12) months. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
15. VOC source testing shall be conducted using EPA Methods 18, 25, 25A, 25B, or ARB Method 100. Results shall be converted to lb-VOC/lb-MBTT. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
16. The stack gas velocities shall be determined using EPA Method 2, the stack gas moisture content shall be determined using EPA Method 4, and the gas analysis for the determination of dry molecular weight shall be determined using EPA Method 3. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. 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
19. The baghouse shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Baghouse filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Pressure gauges shall be inspected weekly and the results shall be recorded and made available for District inspection upon request. Corrective actions shall be implemented on the control equipment if indicated by the inspections. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Records of baghouse 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, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of the hourly and daily amount of MBTT used in the line shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Records of the combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Records of the weekly NH₃ concentration from the glass treatment operations shall be maintained. [District Rule 4102]
27. Records of the daily amount of glass treated from line 22C shall be maintained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. 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
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201. 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.

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-42-4

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

TRONA/DRY REAGENT RECEIVING AND STORAGE OPERATION WITH A 2500 CUBIC FOOT STORAGE SILO SERVED BY A MET-PRO CORP FLEX-KLEEN VENT FILTER (OR EQUIVALENT)

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. Visible emissions from the exhaust of the bin vent filter shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
3. All ducting and control equipment shall be in good working order to prevent fugitive particulate emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
4. All filters shall be properly maintained and must be in place during the receiving of trona/dry reagent. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Replacement filters numbering at least 10% of the total number of filters in the largest bin vent filter using each type of filter shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The bin vent filter cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The quantity of Trona/dry reagent delivered to the silo shall not exceed 120 tons in any one day. [District Rule 2201]
8. PM10 emissions from the Trona/dry reagent receiving operation shall not exceed 0.00034 lb/ton. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Permittee shall keep a record of the daily quantity of Trona/dry reagent delivered to the silo, in tons. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The bin vent filter 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
11. The differential pressure gauge reading range for the bin vent filter shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The differential operating pressure across the bin vent filter 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 the bin vent filter, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
14. All records shall be retained for a period of at least 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: N-593-43-2

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

FULLY ENCLOSED IRON CHROMITE MATERIAL HANDLING SYSTEM CONSISTING OF ONE 65,000 FT STORAGE BIN CONTROLLED BY A FLEX-KLEEN BAGHOUSE DUST COLLECTOR, ONE WEIGH SCREW FEEDER, ONE WEIGH HOPPER WITH LOAD CELLS, ONE COVERED METERING VIBRATORY FEEDER, AND AIR CONVEYANCE LINES

PERMIT UNIT REQUIREMENTS

1. Visible emissions 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 the 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. The dust collector 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 the dust collector 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 the dust collector shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The dust collector shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The differential pressure gauge reading range for the dust collector shall be established per manufacturer's recommendation at time of start up inspection. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The PM10 emissions from the dust collector shall not exceed 0.02 gr/dscf. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Differential operating pressure for the dust collector shall be monitored and recorded on each day that the dust collector operates. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Records of all maintenance of the dust collector, including all change outs of filter media, shall be maintained. [District NSR Rule] Federally Enforceable Through Title V Permit
13. Records of inspections and repair for the 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 1070] Federally Enforceable Through Title V Permit
14. 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] Federally Enforceable Through Title V Permit

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

ATTACHMENT B

Previous Title V Operating Permit

San Joaquin Valley Air Pollution Control District

FACILITY: N-593-0-3

EXPIRATION DATE: 07/31/2012

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 owner or operator shall notify the EPA Regional Administrator within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in the permit. [40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
3. 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
4. The EPA Regional Administrator shall be notified in writing within 15 days following the correction of any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in the permit. [40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
5. 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
6. 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 and notify the EPA Regional Administrator unless exempted by District Rule 2020 (12/19/02). [District Rule 2010, 3.0 and 4.0; and 2020 and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
7. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.12.1] Federally Enforceable Through Title V Permit
8. 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 and the EPA Regional Administrator. [District Rule 2031 and 40 CFR 52.233(g)] 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: OWENS-BROCKWAY GLASS CONTAINER
Location: 14700 W SCHULTE ROAD, TRACY, CA 95376
N-593-0-3; May 8 2013 10:40AM - HARADERJ

9. 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
10. 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
11. 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
12. 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
13. 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
14. 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
15. 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
16. 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
17. 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
18. 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
19. 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
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District and the EPA 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 and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District and the EPA 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 and 40 CFR 52.233(g)] 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.

22. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District and the EPA to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3 and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
23. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District and the EPA 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 and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
24. 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 (11/15/01). 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 San Joaquin County Rule 401] Federally Enforceable Through Title V Permit
25. 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 the Table of Standards of District Rule 4601 (10/31/01) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
26. All VOC-containing materials for architectural coatings subject to Rule 4601 (10/31/01) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
27. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (10/31/01). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
28. 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
29. 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 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
30. 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 82, Subpart B. [40 CFR 82, Subpart B] Federally Enforceable Through Title V Permit
31. 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
32. 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
33. 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
34. 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
35. 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8061 and Rule 8011] 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. Any unpaved vehicle/equipment area that anticipates more than 75 vehicle trips per day shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 100 vehicle trips per day shall comply with the requirements of Section 5.1.2 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 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
37. 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
38. 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
39. 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
40. 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
41. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: San Joaquin County Rule 401. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
42. 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 (11/15/01); 4601, sections 5.1, 5.2, 5.3, 5.8 and 8.0 (10/31/01); 8021 (11/15/01); 8031 (11/15/01); 8041 (11/15/01); 8051 (11/15/01); 8061 (11/15/01); and 8071 (11/15/01). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
43. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
44. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin July 15 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
45. All correspondence as required by the Federal Major Stationary Source permit shall be forwarded to EPA at the following: Mailing address - Director, Air Division (Attn: Air-5), U. S. Environmental Protection Agency, Region IX, 75 Hawthorne Street San Francisco, CA 94105-3901; Email: R9.AEO@epa.gov; Facsimile: (415) 947-3579. [40 CFR 52.233(g)] 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: N-593-2-8

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

HOT END SURFACE TREATMENT HOOD A1 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-11, '-37, '-38, '-39, '-40, AND '-41)

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. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse serving the hot end surface treatment systems shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The material removed from the baghouse and transferred into the receiver shall be prevented from being re-entrained into the atmosphere. No material shall accumulate outside of the receiver. [District Rule 4102]
8. The receiver shall remain sealed at all times except during maintenance. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emission rates from this unit shall not exceed either of the following limits: 0.01107 lb-PM10/lb-Monobutyltin Trichloride (MBTT) or 0.050 lb-VOC/lb-MBTT. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of MBTT used in this hot end surface treatment system shall not exceed 1.66 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed 8.91 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Ammonia (NH₃) emissions combined for hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed either of the following limits: 1.8 lb/hr or 150 ppmvd. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The permittee shall monitor and record the stack concentration (in ppmv) of NH₃ at least once every week using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit. [District Rule 4102]
14. Source testing to determine the rate of VOC, expressed as lb-VOC/lb-MBTT, shall be conducted at least once every twelve (12) months. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
15. VOC source testing shall be conducted using EPA Methods 18, 25, 25A, 25B, or ARB Method 100. Results shall be converted to lb-VOC/lb-MBTT. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
16. The stack gas velocities shall be determined using EPA Method 2, the stack gas moisture content shall be determined using EPA Method 4, and the gas analysis for the determination of dry molecular weight shall be determined using EPA Method 3. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. 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
19. The baghouse shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Baghouse filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Pressure gauges shall be inspected weekly and the results shall be recorded and made available for District inspection upon request. Corrective actions shall be implemented on the control equipment if indicated by the inspections. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Records of baghouse 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, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of the hourly and daily amount of MBTT used in the line shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Records of the combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Records of the weekly NH₃ concentration from the glass treatment operations shall be maintained. [District Rule 4102]
27. Records of the daily amount of glass treated from lines 22A & 22B shall be maintained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. 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
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201. 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: N-593-3-3

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

BATCH CONSTITUENTS HANDLING SYSTEM: RAW MATERIAL UNLOADING HOPPER, CONVEYING, WEIGHING AND MIXING SERVED BY A BAGHOUSE

PERMIT UNIT REQUIREMENTS

1. There shall be no visible emissions from the baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
2. 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
3. The differential pressure across each compartment of the baghouse shall be maintained between 1" and 8" water column. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 4102]
6. There shall be no fugitive emissions from conveying and elevating systems. Compliance with this requirement shall be demonstrated by conducting weekly inspections of the equipment and maintaining records of the inspections. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201] 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 and San Joaquin County Rule 404. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
9. Dust collector shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particle matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. 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
12. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
14. The differential pressure across each compartment of the baghouse shall be checked and the results recorded weekly. If the differential pressure across each compartment of the baghouse is not between 1" and 8" water column, corrective action is required prior to further operation of the equipment. Corrective action means that the cause of the improper pressure differential is corrected before operation of the equipment is resumed. [District Rule 2520, 9.3.2 and 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: N-593-4-3

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

BATCH CONSTITUENTS HANDLING SYSTEM: NEW MINOR INGREDIENTS SYSTEM SERVED BY A BAGHOUSE

PERMIT UNIT REQUIREMENTS

1. There shall be no visible emissions from the baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
2. 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
3. The differential pressure across each compartment of the baghouse shall be maintained between 1" and 8" water column. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 4102]
6. There shall be no fugitive emissions from conveying and elevating systems. Compliance with this requirement shall be demonstrated by conducting weekly inspections of the equipment and maintaining records of the inspections. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201] 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 and San Joaquin County Rule 404. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
9. Dust collector shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. 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
12. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
14. The differential pressure across each compartment of the baghouse shall be checked and the results recorded weekly. If the differential pressure across each compartment of the baghouse is not between 1" and 8" water column, corrective action is required prior to further operation of the equipment. Corrective action means that the cause of the improper pressure differential is corrected before operation of the equipment is resumed. [District Rule 2520, 9.3.2 and 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: N-593-5-3

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

BATCH CONSTITUENTS HANDLING SYSTEM: CULLET CRUSHING, ELEVATING, AND BLENDING

PERMIT UNIT REQUIREMENTS

1. There shall be no fugitive emissions from conveying and elevating systems. Compliance with this requirement shall be demonstrated by conducting weekly inspections of the equipment and maintaining records of the inspections.
[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: N-593-6-3

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

BATCH CONSTITUENTS HANDLING SYSTEM: BATCH DISTRIBUTION AND CONVEYING TO FURNACE #22-C
SERVED BY A BAGHOUSE

PERMIT UNIT REQUIREMENTS

1. There shall be no visible emissions from the baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
2. 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
3. The differential pressure across each compartment of the baghouse shall be maintained between 1" and 8" water column. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 4102]
6. There shall be no fugitive emissions from conveying and elevating systems. Compliance with this requirement shall be demonstrated by conducting weekly inspections of the equipment and maintaining records of the inspections. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201] 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 and San Joaquin County Rule 404. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
9. Dust collector shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. 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
12. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
14. The differential pressure across each compartment of the baghouse shall be checked and the results recorded weekly. If the differential pressure across each compartment of the baghouse is not between 1" and 8" water column, corrective action is required prior to further operation of the equipment. Corrective action means that the cause of the improper pressure differential is corrected before operation of the equipment is resumed. [District Rule 2520, 9.3.2 and 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: N-593-7-3

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

BATCH CONSTITUENTS HANDLING SYSTEM: BATCH DISTRIBUTION AND CONVEYING TO FURNACE #22-A
SERVED BY A BAGHOUSE

PERMIT UNIT REQUIREMENTS

1. 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
2. The differential pressure across each compartment of the baghouse shall be maintained between 1" and 8" water column. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 4102]
5. There shall be no fugitive emissions from conveying and elevating systems. Compliance with this requirement shall be demonstrated by conducting weekly inspections of the equipment and maintaining records of the inspections. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 and San Joaquin County Rule 404. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
8. Dust collector shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. 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
11. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The differential pressure across each compartment of the baghouse shall be checked and the results recorded weekly. If the differential pressure across each compartment of the baghouse is not between 1" and 8" water column, corrective action is required prior to further operation of the equipment. Corrective action means that the cause of the improper pressure differential is corrected before operation of the equipment is resumed. [District Rule 2520, 9.3.2 and 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: N-593-8-3

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

BATCH CONSTITUENTS HANDLING SYSTEM: BATCH DISTRIBUTION AND CONVEYING TO FURNACE #22-B
SERVED BY A BAGHOUSE

PERMIT UNIT REQUIREMENTS

1. There shall be no visible emissions from the baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
2. 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
3. The differential pressure across each compartment of the baghouse shall be maintained between 1" and 8" water column. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 4102]
6. There shall be no fugitive emissions from conveying and elevating systems. Compliance with this requirement shall be demonstrated by conducting weekly inspections of the equipment and maintaining records of the inspections. [District NSR Rule] Federally Enforceable Through Title V Permit
7. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201] 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 and San Joaquin County Rule 404. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
9. Dust collector shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. 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
12. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
14. The differential pressure across each compartment of the baghouse shall be checked and the results recorded weekly. If the differential pressure across each compartment of the baghouse is not between 1" and 8" water column, corrective action is required prior to further operation of the equipment. Corrective action means that the cause of the improper pressure differential is corrected before operation of the equipment is resumed. [District Rule 2520, 9.3.2 and 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: N-593-10-14

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

60 MMBTU/HR GLASS MELTING FURNACE #22-C WITH A CUSTOM GEA BISCHOFF INC. DRY SOX SCRUBBER, A GEA BISCHOFF MODEL BS 780 10 / 5.0 / 2 X 11 / 0.4 ELECTROSTATIC PRECIPITATOR, WITH A 153 CUBIC FOOT STORAGE SILO AND A 190 CUBIC FOOT STORAGE SILO, EACH WITH A MET-PRO CORP FLEX-KLEEN BIN VENT FILTER (OR EQUIVALENT)

PERMIT UNIT REQUIREMENTS

1. All equipment, facilities, or systems installed or used to achieve compliance with the terms and conditions of the Federal Major Stationary Source permit shall at all times be maintained in good working order and be operated as efficiently as possible to minimize air pollutant emissions. [40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201 and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E=3.59P^{0.62}$ ($P < 30$ tph) or $E=17.31P^{0.16}$ ($P > 30$ tph). [District Rule 4202 and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
4. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [San Joaquin County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit
5. 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]
6. The exhaust from the glass melting furnace shall be vented through an operational SOx scrubber and electrostatic precipitator, except during periods of furnace startup (when technologically infeasible), furnace idle (when technologically infeasible), and during add-on control system maintenance. Scheduled maintenance of add-on control system shall be accomplished during periods of furnace idling whenever possible. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
7. The emission limitations of District Rule 4354 shall not apply during periods of start-up, shutdown, and idling, as defined by District Rule 4354. The permittee shall notify the District at least 24 hours prior to initiating idling, shutdown, or start-up of the glass furnace and this notification shall include: The 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
8. Start-up is defined as the period of time, after initial construction of a furnace rebuild, during which a glass melting furnace is heated to operating temperature by the primary furnace combustion system and instrumentation are brought to stabilization. Shutdown is defined as the period of time during which a glass melting furnace is purposely allowed to cool from operating temperature and molten glass is removed from the tank for the purposes of a furnace rebuild. Idling is defined as the operation of the furnace at less than 25 percent 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

9. During startup, the permittee shall comply with the requirements of Section 5.2 of District Rule 4354. [District Rule 4354] Federally Enforceable Through Title V Permit
10. The duration of shutdown of the furnace, as measured from the time the furnace operations drop below the idle threshold (operation of the furnace at less than 25 percent of the permitted glass production capacity or fuel use capacity) to when all emissions from the furnace cease, shall not exceed 20 days. [District Rule 4354] Federally Enforceable Through Title V Permit
11. During periods when the furnace is in idle state, the glass throughput shall not exceed 50 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
12. The emission control system shall be in operation whenever technologically feasible during furnace idling to minimize emissions. [District Rule 4354] Federally Enforceable Through Title V Permit
13. NO_x, CO, VOC, SO_x, and PM₁₀ emissions during idling shall not exceed the amount as calculated using the following equation: NO_x, CO, VOC, SO_x, or PM₁₀ (lb/day) = Applicable emission limit (lb/ton) x Furnace permitted production capacity (tons/day). [District Rule 4354] Federally Enforceable Through Title V Permit
14. The PM₁₀ and SO_x emission limits of this permit shall not apply during routine maintenance of the respective add-on control systems. The routine maintenance in each calendar year shall not exceed 144 hours total for all add-on controls and routine maintenance shall be conducted in a manner consistent with good air pollution control practices for minimizing emissions. [District Rule 4354]
15. The furnace shall be fired on PUC regulated natural gas or LPG/propane fuel only. [District NSR Rule] Federally Enforceable Through Title V Permit
16. The facility shall not use commercial arsenic as a raw material in the production process. [40 CFR 61 Subpart N] Federally Enforceable Through Title V Permit
17. The glass pull rate shall not exceed 417 tons during any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
18. The glass pull rate shall not exceed 146,000 tons during any 12 consecutive month period. [District NSR Rule] Federally Enforceable Through Title V Permit
19. The weight percent of cullet per batch shall not be less than 17.5%. Batch weight distribution data shall be available for District inspection during normal operating hours. [District NSR Rule] Federally Enforceable Through Title V Permit
20. NO_x emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 69.50 lb-NO_x/hr or 4.0 lb-NO_x/ton of glass pulled, based on a block 24-hour average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
21. SO_x emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 15.64 lb-SO_x/hr or 0.9 lb-SO_x/ton of glass pulled, based on a 30-day rolling average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
22. CO emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 300 ppmvd @ 8% O₂ or 1.0 lb-CO/ton of glass pulled, based on a 3-hour rolling average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
23. VOC emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 20 ppmvd @ 8% O₂ or 0.25 lb-VOC/ton of glass pulled, based on a 3-hour rolling average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
24. PM₁₀ emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed either of the following limits: 6.59 lb-PM₁₀/hr or 0.5 lb-PM₁₀/ton of glass pulled, based on a block 24-hour average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
25. Particulate matter emissions shall not exceed 17.5 lb/hr. [40 CFR 52.233(g)] 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.

26. Daily combined emissions from furnaces N-593-10 (22-C), N-593-12 (22-A), and N-593-13 (22-B) shall not exceed any of the following limits: 3,392.2 lb-NOx/day, 300.0 lb-PM10/day, and 105.0 lb-filterable PM10/day. [District NSR Rule and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
27. Combined emissions from furnaces N-593-10 (22-C), N-593-12 (22-A), and N-593-13 (22-B) computed over a 12 consecutive month period shall not exceed either of the following limits: 606.540 tons-NOx/year and 55 tons-PM10/year. [District NSR Rule] Federally Enforceable Through Title V Permit
28. All required source testing shall conform to the compliance testing procedures described in District Rule 1081. [District Rule 1081] Federally Enforceable Through Title V Permit
29. 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 NOx, CO, and O2 analyzer during District inspections. 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 Source Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
30. Annual performance testing shall be conducted for VOC (ppmv and lb/ton of glass pulled), CO (ppmv and lb/ton of glass pulled), PM10 (lb/ton of glass pulled and lb/hr), SOx (lb/ton of glass pulled and lb/hr), and NOx (lb/ton of glass pulled) emissions at least once every calendar year. To qualify as an annual performance test, the test date shall be at least 6 months after, and not more than 18 months after the initial and the previous annual performance test. [District NSR Rule, Rule 4354, and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
31. Furnace conditions during source testing shall be representative of normal operations, with a glass production rate equal to or greater than 60 percent of the permitted glass production capacity. The source test may be conducted at a glass production rate lower than 60 percent of the permitted glass production rate, provided that the permittee demonstrates that the proposed alternative glass production rate is representative of normal operations and the proposed alternative glass production rate is approved by the APCO in writing. [District Rule 4354] Federally Enforceable Through Title V Permit
32. Compliance demonstration (source testing) shall be District witnessed or authorized and samples shall be collected by a certified testing laboratory. Source testing shall be conducted using the methods and procedures specified in this permit. The District must be notified 45 days prior to any compliance source test, and a source test plan must be submitted for approval 30 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
33. Performance testing shall be conducted using following test methods: (1) Oxides of Nitrogen: EPA Method 7E, EPA Method 19, or ARB Method 100; (2) Carbon Monoxide: EPA Method 10, or ARB Method 100; (3) VOC (ppmv): EPA Method 25A expressed in terms of carbon, or ARB Method 100, EPA Method 18 or ARB method 422 to determine emissions of exempt compounds; (4) Stack Gas Oxygen, Carbon Dioxide, Excess Air, and Dry Molecular Weight: EPA Method 3 or 3A, or ARB Method 100; (5) Oxides of Sulfur: EPA Method 6C, EPA Method 8, or ARB Method 100; (6) Filterable PM10: EPA Method 5, EPA Method 201, or EPA Method 201A. An operator choosing EPA Method 5 shall count all PM collected as PM10; (7) Condensable PM10: EPA Method 202 with the following procedures, (7a) Purge the impinger with dry nitrogen for one hour. The one hour purge with dry nitrogen shall be performed as soon as possible after the final leak check of the system, (7b) Neutralize the inorganic portion to a pH of 7.0. Use the procedure, "Determination of NH4 Retained in Sample by Titration" described in Method 202 to neutralize sulfuric acid, (7c) Evaporate the last 1 ml of the inorganic fraction by air drying following evaporation of the bulk of the impinger water in a 105 degrees C oven as described in the first sentence of the Method 202 section titled "Inorganic Fraction Weight Determination". [District NSR Rule, Districts Rule 4354 and 2520, and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
34. 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 measuring PM10 emissions limit. If this option is used, then all of the particulate emissions will be considered to be PM10. [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.

35. Source testing to measure emissions when firing on LPG fuel need not be performed if the LPG fuel usage for this furnace does not exceed 100 hours during any one calendar year. Once 100 hours of operation using LPG fuel is exceeded, a source test shall be performed within 90 days after the exceedance of 100 hours. [District Rule 1081] Federally Enforceable Through Title V Permit
36. For source testing purposes, arithmetic average of three 30-consecutive-minute test runs shall be used to determine compliance with NO_x, CO, VOC, and SO_x emission limits. [District Rules 2201, 4354, 6.4.4] Federally Enforceable Through Title V Permit
37. For source testing purposes, arithmetic average of three 60-consecutive-minute test runs shall be used to determine compliance with PM₁₀ emission limits. [District Rule 4354, 6.4.5] Federally Enforceable Through Title V Permit
38. The applicant shall install, maintain, and operate a continuous emissions monitoring system (CEMS) to measure stack NO_x, SO_x, CO, O₂ concentration (if required for compliance determination), and stack gas volumetric flow rate and shall meet the performance specification requirements in 40 CFR, Part 60, Appendix B, Performance Specifications 2, 3, and 4, or shall meet equivalent specifications established by mutual agreement of the District, the California Air Resources Board, and EPA. The CEM systems shall also be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7(c) and 40 CFR 60.13. [District Rules 1080, 2201, and 4354] Federally Enforceable Through Title V Permit
39. The applicant shall install, maintain, and operate a continuous opacity monitor (COM) and shall meet the performance specification requirements in 40 CFR Part 60, Appendix B, or shall meet equivalent specifications established by mutual consent of the District, the California Air Resources Board, and EPA. [District Rules 1080, 2201, and 4101] Federally Enforceable Through Title V Permit
40. The facility shall install and maintain equipment, facilities, and systems compatible with the Districts 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
41. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternate method. [District Rule 1080] Federally Enforceable Through Title V Permit
42. The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080, 7.1] Federally Enforceable Through Title V Permit
43. Results of the CEM system shall be averaged over the appropriate averaging period, using consecutive 15-minute samples in accordance with all applicable requirements of 40 CFR 60.13, or by other methods deemed equivalent by mutual agreement with the District, California Air Resources Board, and EPA. [District Rule 1080 and 40 CFR 60.13] Federally Enforceable Through Title V Permit
44. Records of the following items shall be maintained: the occurrence and duration of any malfunction, performance testing, calibrations, checks, adjustments, and any period during which the CEM is inoperative, and the CEM emission measurements. [District Rule 1080] Federally Enforceable Through Title V Permit
45. Cylinder gas audits (CGAs) of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy testing is 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
46. The owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F (CGAs and RATAs) and if applicable 40 CFR Part 75, Appendix B (linearity and RATAs) at least once every four calendar quarters and annually within 30 days of the anniversary date of the initial test. 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

47. Any visible emission monitoring exceedance showing air contaminant 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 shall be reported by the operator to the APCO within 96 hours. [District Rule 1080] Federally Enforceable Through Title V Permit
48. Any violation of an emission standard, as shown by the stack CEMS, shall be reported to the APCO within 96 hours of detection. [District Rule 1080] Federally Enforceable Through Title V Permit
49. The operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEMS. The operator shall inform the APCO of the intent to shutdown a CEMS at least 24 hours prior to the event. [District Rule 1080] Federally Enforceable Through Title V Permit
50. 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 emissions (averaging period used for data reporting shall correspond to the averaging period for each respective emission standard); corrective actions taken and preventative measures adopted; applicable time and data for 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 or when the CEMS has not been inoperative, repaired, or adjusted. [District Rule 1080] Federally Enforceable Through Title V Permit
51. The permittee shall monitor and record the furnace temperature daily. [District Rule 4354] Federally Enforceable Through Title V Permit
52. The furnace temperature shall be maintained at or above the level for which compliance with the permitted VOC limit has been demonstrated. If the measured furnace temperature is less than the minimum furnace temperature limit, 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
53. The permittee shall keep records of the date and time of the furnace temperature readings and the furnace temperature during the source test that showed compliance with the VOC emission limit. [District Rule 4354] Federally Enforceable Through Title V Permit
54. The permittee shall install, operate, and maintain a continuous monitoring and recording system to accurately measure and record the electrostatic precipitator secondary current and secondary voltage. [District Rule 4354] Federally Enforceable Through Title V Permit
55. The average daily total power input into the electrostatic precipitator shall be calculated by multiplying the average daily secondary amperage by the average daily secondary voltage, both recorded by the continuous monitoring system. [District Rule 4354] Federally Enforceable Through Title V Permit
56. The average daily total power input of the electrostatic precipitator shall be maintained at or above the level for which compliance with the permitted PM10 limit has been demonstrated. If the minimum measured average daily total power input into the electrostatic precipitator is exceeded, the permittee shall conduct a certified PM10 source test within 60 days to re-establish the minimum average daily total power input limit. In lieu of conducting a certified PM10 source test, the permittee may stipulate that a violation has occurred, subject to enforcement action. The permittee must then correct the violation (return the average daily total power input to or above the minimum level), 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

57. The permittee shall keep records of the date of the measure electrostatic precipitator average daily total power input and the minimum electrostatic precipitator daily total power input established during the source test that showed compliance with the PM10 emission limit of this permit. [District Rule 4354] Federally Enforceable Through Title V Permit
58. Replacement filters numbering at least 10% of the total number of filters in the largest bin vent filter using each type of filter shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
59. Each bin vent filter cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
60. Visible emissions from the exhaust of each bin vent filter shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
61. The throughput for each electrostatic precipitator dust silo shall not exceed 1.81 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
62. PM10 emissions from each electrostatic precipitator dust silo shall not exceed 0.00034 lb/ton. [District Rule 2201] Federally Enforceable Through Title V Permit
63. Each bin vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the filter. 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
64. The differential pressure gauge reading range for each bin vent filter shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
65. The differential operating pressure across each bin vent filter shall be monitored and recorded on each day that the unit operates. [District Rule 2201] Federally Enforceable Through Title V Permit
66. Records of all maintenance of each bin vent filter, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
67. A log of daily process weight, wt% cullet per batch, electric boosting, fuel usage and other relevant operating parameters shall be kept on the premises and shall be made available for District inspection upon request. [District Rule 2520, 9.3.2 and District NSR Rule] Federally Enforceable Through Title V Permit
68. During periods of electrostatic precipitator maintenance and furnace startup, the furnace visible emissions shall be recorded by CARB certified personnel during daylight hours using EPA Method 9 within 2 hours of electrostatic precipitator shutdown or bypass and at least three times a day. Each visible emissions evaluation shall be at least 4 hours apart. [District NSR Rule] Federally Enforceable Through Title V Permit
69. The applicant shall maintain accurate records of the time, date, cause (e.g. electrostatic precipitator maintenance, furnace startup, or furnace idle), and duration electrostatic precipitator is not in operation and result of any visible emissions testing during the period. Records shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
70. The permittee shall maintain daily records of the total hours of operation, type and quantity of fuel used, quantity of glass pulled, the NOx emission rate (in lb/ton of glass pulled), the CO emission rate (in lb/ton of glass pulled), and the SOx emission rate (in lb/ton of glass pulled). The permittee shall also maintain records of source tests, the acceptable range for each approved key system operating parameter as established by source testing, all instances of maintenance and repair, any malfunction, and records of all periods of idling, startup, or shutdown. All records shall be maintained on the premises for a period of five years and shall be made available for District inspection upon request. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
71. Permittee shall keep a record of the combined daily NOx emissions, in pounds, for furnaces N-593-10 (22-C), N-593-12 (22-A) and N-593-13 (22-C). [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.

72. Permittee shall keep a record of the combined rolling 12-month NOx and PM10 emissions for furnaces N-593-10 (22-C), N-593-12 (22-A), and N-593-13 (22-C). This record shall be updated on a monthly basis. [District Rule 2201] Federally Enforceable Through Title V Permit
73. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rules 4201 and 4202. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
74. The requirements of District Rule 4301 were determined to not apply to this unit. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
75. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4801 and San Joaquin County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
76. The requirements of 40 CFR 60, Subpart CC were determined to not apply to this unit because the unit was constructed prior to the effective date in the regulation and not been modified (according to the definition of "modified" in the regulation). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
77. The requirements of 40 CFR 61, Subpart N were determined to not apply to this unit. 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: N-593-11-8

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

HOT END SURFACE TREATMENT HOOD C1 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-37, '-38, '-39, '-40, AND '-41)

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. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse serving the hot end surface treatment systems shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The material removed from the baghouse and transferred into the receiver shall be prevented from being re-entrained into the atmosphere. No material shall accumulate outside of the receiver. [District Rule 4102]
8. The receiver shall remain sealed at all times except during maintenance. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emission rates from this unit shall not exceed either of the following limits: 0.01107 lb-PM10/lb-Monobutyltin Trichloride (MBTT) or 0.050 lb-VOC/lb-MBTT. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of MBTT used in this hot end surface treatment system shall not exceed 1.66 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed 8.91 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Ammonia (NH₃) emissions combined for hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed either of the following limits: 1.8 lb/hr or 150 ppmvd. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The permittee shall monitor and record the stack concentration (in ppmv) of NH₃ at least once every week using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit. [District Rule 4102]
14. Source testing to determine the rate of VOC, expressed as lb-VOC/lb-MBTT, shall be conducted at least once every twelve (12) months. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
15. VOC source testing shall be conducted using EPA Methods 18, 25, 25A, 25B, or ARB Method 100. Results shall be converted to lb-VOC/lb-MBTT. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
16. The stack gas velocities shall be determined using EPA Method 2, the stack gas moisture content shall be determined using EPA Method 4, and the gas analysis for the determination of dry molecular weight shall be determined using EPA Method 3. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. 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
19. The baghouse shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Baghouse filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Pressure gauges shall be inspected weekly and the results shall be recorded and made available for District inspection upon request. Corrective actions shall be implemented on the control equipment if indicated by the inspections. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Records of baghouse 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, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of the hourly and daily amount of MBTT used in the line shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Records of the combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Records of the weekly NH₃ concentration from the glass treatment operations shall be maintained. [District Rule 4102]
27. Records of the daily amount of glass treated from line 22C shall be maintained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. 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
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201. 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: N-593-12-12

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

29 MMBTU/HR OXYGEN-ENRICHED AIR-STAGING (OEAS) GLASS MELTING FURNACE #22-A WITH A CUSTOM GEA BISCHOFF INC. DRY SOX SCRUBBER, A GEA BISCHOFF MODEL BS 780 10 / 5.0 / 2 X 7 / 0.4 ELECTROSTATIC PRECIPITATOR, WITH A 153 CUBIC FOOT STORAGE SILO AND A 190 CUBIC FOOT STORAGE SILO, EACH WITH A MET-PRO CORP FLEX-KLEEN BIN VENT FILTER (OR EQUIVALENT)

PERMIT UNIT REQUIREMENTS

1. All equipment, facilities, or systems installed or used to achieve compliance with the terms and conditions of the Federal Major Stationary Source permit shall at all times be maintained in good working order and be operated as efficiently as possible to minimize air pollutant emissions. [40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201 and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E=3.59P^{0.62}$ ($P < 30$ tph) or $E=17.31P^{0.16}$ ($P > 30$ tph). [District Rule 4202 and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
4. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [San Joaquin County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit
5. 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]
6. The exhaust from the glass melting furnace shall be vented through an operational SOx scrubber and electrostatic precipitator, except during periods of furnace startup (when technologically infeasible), furnace idle (when technologically infeasible), and during add-on control system maintenance. Scheduled maintenance of add-on control system shall be accomplished during periods of furnace idling whenever possible. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
7. The emission limitations of District Rule 4354 shall not apply during periods of start-up, shutdown, and idling, as defined by District Rule 4354. The permittee shall notify the District at least 24 hours prior to initiating idling, shutdown, or start-up of the glass furnace and this notification shall include: The 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
8. Start-up is defined as the period of time, after initial construction of a furnace rebuild, during which a glass melting furnace is heated to operating temperature by the primary furnace combustion system and instrumentation are brought to stabilization. Shutdown is defined as the period of time during which a glass melting furnace is purposely allowed to cool from operating temperature and molten glass is removed from the tank for the purposes of a furnace rebuild. Idling is defined as the operation of the furnace at less than 25 percent 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

9. During startup, the permittee shall comply with the requirements of Section 5.2 of District Rule 4354. [District Rule 4354] Federally Enforceable Through Title V Permit
10. The duration of shutdown of the furnace, as measured from the time the furnace operations drop below the idle threshold (operation of the furnace at less than 25 percent of the permitted glass production capacity or fuel use capacity) to when all emissions from the furnace cease, shall not exceed 20 days. [District Rule 4354] Federally Enforceable Through Title V Permit
11. During periods when the furnace is in idle state, the glass throughput shall not exceed 50 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
12. The emission control system shall be in operation whenever technologically feasible during furnace idling to minimize emissions. [District Rule 4354] Federally Enforceable Through Title V Permit
13. NO_x, CO, VOC, SO_x, and PM₁₀ emissions during idling shall not exceed the amount as calculated using the following equation: NO_x, CO, VOC, SO_x, or PM₁₀ (lb/day) = Applicable emission limit (lb/ton) x Furnace permitted production capacity (tons/day). [District Rule 4354] Federally Enforceable Through Title V Permit
14. The PM₁₀ and SO_x emission limits of this permit shall not apply during routine maintenance of the respective add-on control systems. The routine maintenance in each calendar year shall not exceed 144 hours total for all add-on controls and routine maintenance shall be conducted in a manner consistent with good air pollution control practices for minimizing emissions. [District Rule 4354]
15. The furnace shall be fired on PUC regulated natural gas or LPG/propane fuel only. [District NSR Rule] Federally Enforceable Through Title V Permit
16. The facility shall not use commercial arsenic as a raw material in the production process. [40 CFR 61 Subpart N] Federally Enforceable Through Title V Permit
17. The glass pull rate shall not exceed 250 tons during any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
18. The glass pull rate shall not exceed 87,235 tons during any 12 consecutive month period. [District NSR Rule] Federally Enforceable Through Title V Permit
19. The weight percent of cullet per batch shall not be less than 13.6%. Batch weight distribution data shall be available for District inspection during normal operating hours. [District NSR Rule] Federally Enforceable Through Title V Permit
20. NO_x emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 41.67 lb-NO_x/hr or 4.0 lb-NO_x/ton of glass pulled, based on a block 24-hour average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
21. SO_x emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 9.38 lb-SO_x/hr or 0.9 lb-SO_x/ton of glass pulled, based on a 30-day rolling average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
22. CO emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 300 ppmvd @ 8% O₂ or 1.0 lb-CO/ton of glass pulled, based on a 3-hour rolling average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
23. VOC emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 20 ppmvd @ 8% O₂ or 0.25 lb-VOC/ton of glass pulled, based on a 3-hour rolling average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
24. PM₁₀ emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed either of the following limits: 3.78 lb-PM₁₀/hr or 0.5 lb-PM₁₀/ton of glass pulled, based on a block 24-hour average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
25. Daily combined emissions from furnaces N-593-10 (22-C), N-593-12 (22-A), and N-593-13 (22-B) shall not exceed any of the following limits: 3,392.2 lb-NO_x/day, 300.0 lb-PM₁₀/day, and 105.0 lb-filterable PM₁₀/day. [District NSR Rule and 40 CFR 52.233(g)] 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.

26. Combined emissions from furnaces N-593-10 (22-C), N-593-12 (22-A), and N-593-13 (22-B) computed over a 12 consecutive month period shall not exceed either of the following limits: 606.540 tons-NOx/year and 55 tons-PM10/year. [District NSR Rule] Federally Enforceable Through Title V Permit
27. All required source testing shall conform to the compliance testing procedures described in District Rule 1081. [District Rule 1081] Federally Enforceable Through Title V Permit
28. 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 NOx, CO, and O2 analyzer during District inspections. 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 Source Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
29. Annual performance testing shall be conducted for VOC (ppmv and lb/ton of glass pulled), CO (ppmv and lb/ton of glass pulled), PM10 (lb/ton of glass pulled and lb/hr), SOx (lb/ton of glass pulled and lb/hr), and NOx (lb/ton of glass pulled) emissions at least once every calendar year. To qualify as an annual performance test, the test date shall be at least 6 months after, and not more than 18 months after the initial and the previous annual performance test. [District NSR Rule, Rule 4354, and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
30. Furnace conditions during source testing shall be representative of normal operations, with a glass production rate equal to or greater than 60 percent of the permitted glass production capacity. The source test may be conducted at a glass production rate lower than 60 percent of the permitted glass production rate, provided that the permittee demonstrates that the proposed alternative glass production rate is representative of normal operations and the proposed alternative glass production rate is approved by the APCO in writing. [District Rule 4354] Federally Enforceable Through Title V Permit
31. Compliance demonstration (source testing) shall be District witnessed or authorized and samples shall be collected by a certified testing laboratory. Source testing shall be conducted using the methods and procedures specified in this permit. The District must be notified 45 days prior to any compliance source test, and a source test plan must be submitted for approval 30 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
32. Performance testing shall be conducted using following test methods: (1) Oxides of Nitrogen: EPA Method 7E, EPA Method 19, or ARB Method 100; (2) Carbon Monoxide: EPA Method 10, or ARB Method 100; (3) VOC (ppmv): EPA Method 25A expressed in terms of carbon, or ARB Method 100, EPA Method 18 or ARB method 422 to determine emissions of exempt compounds; (4) Stack Gas Oxygen, Carbon Dioxide, Excess Air, and Dry Molecular Weight: EPA Method 3 or 3A, or ARB Method 100; (5) Oxides of Sulfur: EPA Method 6C, EPA Method 8, or ARB Method 100; (6) Filterable PM10: EPA Method 5, EPA Method 201, or EPA Method 201A. An operator choosing EPA Method 5 shall count all PM collected as PM10; (7) Condensible PM10: EPA Method 202 with the following procedures, (7a) Purge the impinger with dry nitrogen for one hour. The one hour purge with dry nitrogen shall be performed as soon as possible after the final leak check of the system, (7b) Neutralize the inorganic portion to a pH of 7.0. Use the procedure, "Determination of NH4 Retained in Sample by Titration" described in Method 202 to neutralize sulfuric acid, (7c) Evaporate the last 1 ml of the inorganic fraction by air drying following evaporation of the bulk of the impinger water in a 105 degrees C oven as described in the first sentence of the Method 202 section titled "Inorganic Fraction Weight Determination". [District NSR Rule, Districts Rule 4354 and 2520, and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
33. 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 measuring PM10 emissions limit. If this option is used, then all of the particulate emissions will be considered to be PM10. [District NSR Rule] Federally Enforceable Through Title V Permit
34. Source testing to measure emissions when firing on LPG fuel need not be performed if the LPG fuel usage for this furnace does not exceed 100 hours during any one calendar year. Once 100 hours of operation using LPG fuel is exceeded, a source test shall be performed within 90 days after the exceedance of 100 hours. [District Rule 1081] 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.

35. For source testing purposes, arithmetic average of three 30-consecutive-minute test runs shall be used to determine compliance with NO_x, CO, VOC, and SO_x emission limits. [District Rules 2201, 4354, 6.4.4] Federally Enforceable Through Title V Permit
36. For source testing purposes, arithmetic average of three 60-consecutive-minute test runs shall be used to determine compliance with PM₁₀ emission limits. [District Rule 4354, 6.4.5] Federally Enforceable Through Title V Permit
37. The applicant shall install, maintain, and operate a continuous emissions monitoring system (CEMS) to measure stack NO_x, SO_x, CO, O₂ concentration (if required for compliance determination), and stack gas volumetric flow rate and shall meet the performance specification requirements in 40 CFR, Part 60, Appendix B, Performance Specifications 2, 3, and 4, or shall meet equivalent specifications established by mutual agreement of the District, the California Air Resources Board, and EPA. The CEM systems shall also be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7(c) and 40 CFR 60.13. [District Rules 1080, 2201, and 4354] Federally Enforceable Through Title V Permit
38. The applicant shall install, maintain, and operate a continuous opacity monitor (COM) and shall meet the performance specification requirements in 40 CFR Part 60, Appendix B, or shall meet equivalent specifications established by mutual consent of the District, the California Air Resources Board, and EPA. [District Rules 1080, 2201, and 4101] Federally Enforceable Through Title V Permit
39. 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
40. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternate method. [District Rule 1080] Federally Enforceable Through Title V Permit
41. The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080, 7.1] Federally Enforceable Through Title V Permit
42. Results of the CEM system shall be averaged over the appropriate averaging period, using consecutive 15-minute samples in accordance with all applicable requirements of 40 CFR 60.13, or by other methods deemed equivalent by mutual agreement with the District, California Air Resources Board, and EPA. [District Rule 1080 and 40 CFR 60.13] Federally Enforceable Through Title V Permit
43. Records of the following items shall be maintained: the occurrence and duration of any malfunction, performance testing, calibrations, checks, adjustments, and any period during which the CEM is inoperative, and the CEM emission measurements. [District Rule 1080] Federally Enforceable Through Title V Permit
44. Cylinder gas audits (CGAs) of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy testing is 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
45. The owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F (CGAs and RATAs) and if applicable 40 CFR Part 75, Appendix B (linearity and RATAs) at least once every four calendar quarters and annually within 30 days of the anniversary date of the initial test. 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
46. Any visible emission monitoring exceedance showing air contaminant 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 shall be reported by the operator to the APCO within 96 hours. [District Rule 1080] Federally Enforceable Through Title V Permit
47. Any violation of an emission standard, as shown by the stack CEMS, shall be reported to the APCO within 96 hours of detection. [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.

48. The operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEMS. The operator shall inform the APCO of the intent to shutdown a CEMS at least 24 hours prior to the event. [District Rule 1080] Federally Enforceable Through Title V Permit
49. 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 emissions (averaging period used for data reporting shall correspond to the averaging period for each respective emission standard); corrective actions taken and preventative measures adopted; applicable time and data for 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 or when the CEMS has not been inoperative, repaired, or adjusted. [District Rule 1080] Federally Enforceable Through Title V Permit
50. The permittee shall monitor and record the furnace temperature daily. [District Rule 4354] Federally Enforceable Through Title V Permit
51. The furnace temperature shall be maintained at or above the level for which compliance with the permitted VOC limit has been demonstrated. If the measured furnace temperature is less than the minimum furnace temperature limit, 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
52. The permittee shall keep records of the date and time of the furnace temperature readings and the furnace temperature during the source test that showed compliance with the VOC emission limit. [District Rule 4354] Federally Enforceable Through Title V Permit
53. The permittee shall install, operate, and maintain a continuous monitoring and recording system to accurately measure and record the electrostatic precipitator secondary current and secondary voltage. [District Rule 4354] Federally Enforceable Through Title V Permit
54. The average daily total power input into the electrostatic precipitator shall be calculated by multiplying the average daily secondary amperage by the average daily secondary voltage, both recorded by the continuous monitoring system. [District Rule 4354] Federally Enforceable Through Title V Permit
55. The average daily total power input of the electrostatic precipitator shall be maintained at or above the level for which compliance with the permitted PM10 limit has been demonstrated. If the minimum measured average daily total power input into the electrostatic precipitator is exceeded, the permittee shall conduct a certified PM10 source test within 60 days to re-establish the minimum average daily total power input limit. In lieu of conducting a certified PM10 source test, the permittee may stipulate that a violation has occurred, subject to enforcement action. The permittee must then correct the violation (return the average daily total power input to or above the minimum level), 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]
56. The permittee shall keep records of the date of the measure electrostatic precipitator average daily total power input and the minimum electrostatic precipitator daily total power input established during the source test that showed compliance with the PM10 emission limit of this permit. [District Rule 4354] Federally Enforceable Through Title V Permit
57. Replacement filters numbering at least 10% of the total number of filters in the largest bin vent filter using each type of filter shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
58. Each bin vent filter cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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59. Visible emissions from the exhaust of each bin vent filter shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
60. The throughput for each electrostatic precipitator dust silo shall not exceed 1.23 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
61. PM10 emissions from each electrostatic precipitator dust silo shall not exceed 0.00034 lb/ton. [District Rule 2201] Federally Enforceable Through Title V Permit
62. Each bin vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the filter. 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
63. The differential pressure gauge reading range for each bin vent filter shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
64. The differential operating pressure across each bin vent filter shall be monitored and recorded on each day that the unit operates. [District Rule 2201] Federally Enforceable Through Title V Permit
65. Records of all maintenance of the bin vent filters, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
66. A log of daily process weight, wt% cullet per batch, electric boosting, fuel usage and other relevant operating parameters shall be kept on the premises and shall be made available for District inspection upon request. [District Rule 2520, 9.3.2 and District NSR Rule] Federally Enforceable Through Title V Permit
67. During periods of electrostatic precipitator maintenance and furnace startup, the furnace visible emissions shall be recorded by CARB certified personnel during daylight hours using EPA Method 9 within 2 hours of electrostatic precipitator shutdown or bypass and at least three times a day. Each visible emissions evaluation shall be at least 4 hours apart. [District NSR Rule] Federally Enforceable Through Title V Permit
68. The applicant shall maintain accurate records of the time, date, cause (e.g. electrostatic precipitator maintenance, furnace startup, or furnace idle), and duration electrostatic precipitator is not in operation and result of any visible emissions testing during the period. Records shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
69. The permittee shall maintain daily records of the total hours of operation, type and quantity of fuel used, quantity of glass pulled, the NOx emission rate (in lb/ton of glass pulled), the CO emission rate (in lb/ton of glass pulled), and the SOx emission rate (in lb/ton of glass pulled). The permittee shall also maintain records of source tests, the acceptable range for each approved key system operating parameter as established by source testing, all instances of maintenance and repair, any malfunction, and records of all periods of idling, startup, or shutdown. All records shall be maintained on the premises for a period of five years and shall be made available for District inspection upon request. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
70. Permittee shall keep a record of the combined daily NOx emissions, in pounds, for furnaces N-593-10 (22-C), N-593-12 (22-A) and N-593-13 (22-C). [District Rule 2201] Federally Enforceable Through Title V Permit
71. Permittee shall keep a record of the combined rolling 12-month NOx and PM10 emissions for furnaces N-593-10 (22-C), N-593-12 (22-A), and N-593-13 (22-C). This record shall be updated on a monthly basis. [District Rule 2201] Federally Enforceable Through Title V Permit
72. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rules 4201 and 4202. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
73. The requirements of District Rule 4301 were determined to not apply to this unit. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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74. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4801 and San Joaquin County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
75. The requirements of 40 CFR 60, Subpart CC were determined to not apply to this unit because the unit was constructed prior to the effective date in the regulation and not been modified (according to the definition of "modified" in the regulation). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
76. The requirements of 40 CFR 61, Subpart N were determined to not apply to this unit. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-13-10

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

67 MMBTU/HR OXYGEN-ENRICHED AIR STAGING (OEAS) GLASS MELTING FURNACE #22-B WITH A CUSTOM GEA BISCHOFF INC. DRY SOX SCRUBBER, A GEA BISCHOFF MODEL BS 780 10 / 5.0 / 2 X 11 / 0.4 ELECTROSTATIC PRECIPITATOR, WITH A 153 CUBIC FOOT STORAGE SILO AND A 190 CUBIC FOOT STORAGE SILO, EACH WITH A MET-PRO CORP FLEX-KLEEN BIN VENT FILTER (OR EQUIVALENT)

PERMIT UNIT REQUIREMENTS

1. All equipment, facilities, or systems installed or used to achieve compliance with the terms and conditions of the Federal Major Stationary Source permit shall at all times be maintained in good working order and be operated as efficiently as possible to minimize air pollutant emissions. [40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201 and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E=3.59P^{0.62}$ ($P < 30$ tph) or $E=17.31P^{0.16}$ ($P > 30$ tph). [District Rule 4202 and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
4. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [San Joaquin County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit
5. 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]
6. The exhaust from the glass melting furnace shall be vented through an operational SOx scrubber and electrostatic precipitator, except during periods of furnace startup (when technologically infeasible), furnace idle (when technologically infeasible), and during add-on control system maintenance. Scheduled maintenance of add-on control system shall be accomplished during periods of furnace idling whenever possible. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
7. The emission limitations of District Rule 4354 shall not apply during periods of start-up, shutdown, and idling, as defined by District Rule 4354. The permittee shall notify the District at least 24 hours prior to initiating idling, shutdown, or start-up of the glass furnace and this notification shall include: The 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
8. Start-up is defined as the period of time, after initial construction of a furnace rebuild, during which a glass melting furnace is heated to operating temperature by the primary furnace combustion system and instrumentation are brought to stabilization. Shutdown is defined as the period of time during which a glass melting furnace is purposely allowed to cool from operating temperature and molten glass is removed from the tank for the purposes of a furnace rebuild. Idling is defined as the operation of the furnace at less than 25 percent 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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9. During startup, the permittee shall comply with the requirements of Section 5.2 of District Rule 4354. [District Rule 4354] Federally Enforceable Through Title V Permit
10. The duration of shutdown of the furnace, as measured from the time the furnace operations drop below the idle threshold (operation of the furnace at less than 25 percent of the permitted glass production capacity or fuel use capacity) to when all emissions from the furnace cease, shall not exceed 20 days. [District Rule 4354] Federally Enforceable Through Title V Permit
11. During periods when the furnace is in idle state, the glass throughput shall not exceed 50 tons per day. [District NSR Rule] Federally Enforceable Through Title V Permit
12. The emission control system shall be in operation whenever technologically feasible during furnace idling to minimize emissions. [District Rule 4354] Federally Enforceable Through Title V Permit
13. NO_x, CO, VOC, SO_x, and PM₁₀ emissions during idling shall not exceed the amount as calculated using the following equation: NO_x, CO, VOC, SO_x, or PM₁₀ (lb/day) = Applicable emission limit (lb/ton) x Furnace permitted production capacity (tons/day). [District Rule 4354] Federally Enforceable Through Title V Permit
14. The PM₁₀ and SO_x emission limits of this permit shall not apply during routine maintenance of the respective add-on control systems. The routine maintenance in each calendar year shall not exceed 144 hours total for all add-on controls and routine maintenance shall be conducted in a manner consistent with good air pollution control practices for minimizing emissions. [District Rule 4354]
15. The furnace shall be fired on PUC regulated natural gas or LPG/propane fuel only. [District NSR Rule] Federally Enforceable Through Title V Permit
16. The facility shall not use commercial arsenic as a raw material in the production process. [40 CFR 61 Subpart N] Federally Enforceable Through Title V Permit
17. The glass pull rate shall not exceed 340 tons during any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
18. The glass pull rate shall not exceed 124,100 tons during any 12 consecutive month period. [District NSR Rule] Federally Enforceable Through Title V Permit
19. The weight percent of cullet per batch shall not be less than 13.6%. Batch weight distribution data shall be available for District inspection during normal operating hours. [District NSR Rule] Federally Enforceable Through Title V Permit
20. NO_x emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 56.67 lb-NO_x/hr or 4.0 lb-NO_x/ton of glass pulled, based on a block 24-hour average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
21. SO_x emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 12.75 lb-SO_x/hr or 0.9 lb-SO_x/ton of glass pulled, based on a 30-day rolling average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
22. CO emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 300 ppmvd @ 8% O₂ or 1.0 lb-CO/ton of glass pulled, based on a 3-hour rolling average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
23. VOC emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed any of the following limits: 20 ppmvd @ 8% O₂ or 0.25 lb-VOC/ton of glass pulled, based on a 3-hour rolling average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
24. PM₁₀ emissions from the glass furnace, except during periods of start-up, shutdown, and idling, shall not exceed either of the following limits: 5.38 lb-PM₁₀/hr or 0.5 lb-PM₁₀/ton of glass pulled, based on a block 24-hour average. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
25. Daily combined emissions from furnaces N-593-10 (22-C), N-593-12 (22-A), and N-593-13 (22-B) shall not exceed any of the following limits: 3,392.2 lb-NO_x/day, 300.0 lb-PM₁₀/day, and 105.0 lb-filterable PM₁₀/day. [District NSR Rule and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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26. Combined emissions from furnaces N-593-10 (22-C), N-593-12 (22-A), and N-593-13 (22-B) computed over a 12 consecutive month period shall not exceed either of the following limits: 606.540 tons-NOx/year and 55 tons-PM10/year. [District NSR Rule] Federally Enforceable Through Title V Permit
27. All required source testing shall conform to the compliance testing procedures described in District Rule 1081. [District Rule 1081] Federally Enforceable Through Title V Permit
28. 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 NOx, CO, and O2 analyzer during District inspections. 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 Source Emission Monitoring and Testing. [District Rule 1081] Federally Enforceable Through Title V Permit
29. Annual performance testing shall be conducted for VOC (ppmv and lb/ton of glass pulled), CO (ppmv and lb/ton of glass pulled), PM10 (lb/ton of glass pulled and lb/hr), SOx (lb/ton of glass pulled and lb/hr), and NOx (lb/ton of glass pulled) emissions at least once every calendar year. To qualify as an annual performance test, the test date shall be at least 6 months after, and not more than 18 months after the initial and the previous annual performance test. [District NSR Rule, Rule 4354, and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
30. Furnace conditions during source testing shall be representative of normal operations, with a glass production rate equal to or greater than 60 percent of the permitted glass production capacity. The source test may be conducted at a glass production rate lower than 60 percent of the permitted glass production rate, provided that the permittee demonstrates that the proposed alternative glass production rate is representative of normal operations and the proposed alternative glass production rate is approved by the APCO in writing. [District Rule 4354] Federally Enforceable Through Title V Permit
31. Compliance demonstration (source testing) shall be District witnessed or authorized and samples shall be collected by a certified testing laboratory. Source testing shall be conducted using the methods and procedures specified in this permit. The District must be notified 45 days prior to any compliance source test, and a source test plan must be submitted for approval 30 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
32. Performance testing shall be conducted using following test methods: (1) Oxides of Nitrogen: EPA Method 7E, EPA Method 19, or ARB Method 100; (2) Carbon Monoxide: EPA Method 10, or ARB Method 100; (3) VOC (ppmv): EPA Method 25A expressed in terms of carbon, or ARB Method 100, EPA Method 18 or ARB method 422 to determine emissions of exempt compounds; (4) Stack Gas Oxygen, Carbon Dioxide, Excess Air, and Dry Molecular Weight: EPA Method 3 or 3A, or ARB Method 100; (5) Oxides of Sulfur: EPA Method 6C, EPA Method 8, or ARB Method 100; (6) Filterable PM10: EPA Method 5, EPA Method 201, or EPA Method 201A. An operator choosing EPA Method 5 shall count all PM collected as PM10; (7) Condensable PM10: EPA Method 202 with the following procedures, (7a) Purge the impinger with dry nitrogen for one hour. The one hour purge with dry nitrogen shall be performed as soon as possible after the final leak check of the system, (7b) Neutralize the inorganic portion to a pH of 7.0. Use the procedure, "Determination of NH4 Retained in Sample by Titration" described in Method 202 to neutralize sulfuric acid, (7c) Evaporate the last 1 ml of the inorganic fraction by air drying following evaporation of the bulk of the impinger water in a 105 degrees C oven as described in the first sentence of the Method 202 section titled "Inorganic Fraction Weight Determination". [District NSR Rule, Districts Rule 4354 and 2520, and 40 CFR 52.233(g)] Federally Enforceable Through Title V Permit
33. 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 measuring PM10 emissions limit. If this option is used, then all of the particulate emissions will be considered to be PM10. [District NSR Rule] Federally Enforceable Through Title V Permit
34. Source testing to measure emissions when firing on LPG fuel need not be performed if the LPG fuel usage for this furnace does not exceed 100 hours during any one calendar year. Once 100 hours of operation using LPG fuel is exceeded, a source test shall be performed within 90 days after the exceedance of 100 hours. [District Rule 1081] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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35. For source testing purposes, arithmetic average of three 30-consecutive-minute test runs shall be used to determine compliance with NO_x, CO, VOC, and SO_x emission limits. [District Rules 2201, 4354, 6.4.4] Federally Enforceable Through Title V Permit
36. For source testing purposes, arithmetic average of three 60-consecutive-minute test runs shall be used to determine compliance with PM₁₀ emission limits. [District Rule 4354, 6.4.5] Federally Enforceable Through Title V Permit
37. The applicant shall install, maintain, and operate a continuous emissions monitoring system (CEMS) to measure stack NO_x, SO_x, CO, O₂ concentration (if required for compliance determination), and stack gas volumetric flow rate and shall meet the performance specification requirements in 40 CFR, Part 60, Appendix B, Performance Specifications 2, 3, and 4, or shall meet equivalent specifications established by mutual agreement of the District, the California Air Resources Board, and EPA. The CEM systems shall also be operated, maintained, and calibrated pursuant to the requirements of 40 CFR 60.7(c) and 40 CFR 60.13. [District Rules 1080, 2201, and 4354] Federally Enforceable Through Title V Permit
38. The applicant shall install, maintain, and operate a continuous opacity monitor (COM) and shall meet the performance specification requirements in 40 CFR Part 60, Appendix B, or shall meet equivalent specifications established by mutual consent of the District, the California Air Resources Board, and EPA. [District Rules 1080, 2201, and 4101] Federally Enforceable Through Title V Permit
39. 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
40. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternate method. [District Rule 1080] Federally Enforceable Through Title V Permit
41. The owner or operator shall, upon written notice from the APCO, provide a summary of the data obtained from the CEM systems. This summary of data shall be in the form and the manner prescribed by the APCO. [District Rule 1080, 7.1] Federally Enforceable Through Title V Permit
42. Results of the CEM system shall be averaged over the appropriate averaging period, using consecutive 15-minute samples in accordance with all applicable requirements of 40 CFR 60.13, or by other methods deemed equivalent by mutual agreement with the District, California Air Resources Board, and EPA. [District Rule 1080 and 40 CFR 60.13] Federally Enforceable Through Title V Permit
43. Records of the following items shall be maintained: the occurrence and duration of any malfunction, performance testing, calibrations, checks, adjustments, and any period during which the CEM is inoperative, and the CEM emission measurements. [District Rule 1080] Federally Enforceable Through Title V Permit
44. Cylinder gas audits (CGAs) of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy testing is 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
45. The owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F (CGAs and RATAs) and if applicable 40 CFR Part 75, Appendix B (linearity and RATAs) at least once every four calendar quarters and annually within 30 days of the anniversary date of the initial test. 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
46. Any visible emission monitoring exceedance showing air contaminant 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 shall be reported by the operator to the APCO within 96 hours. [District Rule 1080] Federally Enforceable Through Title V Permit
47. Any violation of an emission standard, as shown by the stack CEMS, shall be reported to the APCO within 96 hours of detection. [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.

48. The operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEMS. The operator shall inform the APCO of the intent to shutdown a CEMS at least 24 hours prior to the event. [District Rule 1080] Federally Enforceable Through Title V Permit
49. 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 emissions (averaging period used for data reporting shall correspond to the averaging period for each respective emission standard); corrective actions taken and preventative measures adopted; applicable time and data for 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 or when the CEMS has not been inoperative, repaired, or adjusted. [District Rule 1080] Federally Enforceable Through Title V Permit
50. The permittee shall monitor and record the furnace temperature daily. [District Rule 4354] Federally Enforceable Through Title V Permit
51. The furnace temperature shall be maintained at or above the level for which compliance with the permitted VOC limit has been demonstrated. If the measured furnace temperature is less than the minimum furnace temperature limit, 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
52. The permittee shall keep records of the date and time of the furnace temperature readings and the furnace temperature during the source test that showed compliance with the VOC emission limit. [District Rule 4354] Federally Enforceable Through Title V Permit
53. The permittee shall install, operate, and maintain a continuous monitoring and recording system to accurately measure and record the electrostatic precipitator secondary current and secondary voltage. [District Rule 4354] Federally Enforceable Through Title V Permit
54. The average daily total power input into the electrostatic precipitator shall be calculated by multiplying the average daily secondary amperage by the average daily secondary voltage, both recorded by the continuous monitoring system. [District Rule 4354] Federally Enforceable Through Title V Permit
55. The average daily total power input of the electrostatic precipitator shall be maintained at or above the level for which compliance with the permitted PM10 limit has been demonstrated. If the minimum measured average daily total power input into the electrostatic precipitator is exceeded, the permittee shall conduct a certified PM10 source test within 60 days to re-establish the minimum average daily total power input limit. In lieu of conducting a certified PM10 source test, the permittee may stipulate that a violation has occurred, subject to enforcement action. The permittee must then correct the violation (return the average daily total power input to or above the minimum level), 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]
56. The permittee shall keep records of the date of the measure electrostatic precipitator average daily total power input and the minimum electrostatic precipitator daily total power input established during the source test that showed compliance with the PM10 emission limit of this permit. [District Rule 4354] Federally Enforceable Through Title V Permit
57. Replacement filters numbering at least 10% of the total number of filters in the largest bin vent filter using each type of filter shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
58. Each bin vent filter cleaning frequency and duration shall be adjusted to optimize the control efficiency. [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.

59. Visible emissions from the exhaust of each bin vent filter shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
60. The throughput for each electrostatic precipitator dust silo shall not exceed 1.64 tons in any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
61. PM10 emissions from each electrostatic precipitator dust silo shall not exceed 0.00034 lb/ton. [District Rule 2201] Federally Enforceable Through Title V Permit
62. Each bin vent filter shall be equipped with a pressure differential gauge to indicate the pressure drop across the filter. 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
63. The differential pressure gauge reading range for each bin vent filter shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
64. The differential operating pressure across each bin vent filter shall be monitored and recorded on each day that the unit operates. [District Rule 2201] Federally Enforceable Through Title V Permit
65. Records of all maintenance of each bin vent filter, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
66. A log of daily process weight, wt% cullet per batch, electric boosting, fuel usage and other relevant operating parameters shall be kept on the premises and shall be made available for District inspection upon request. [District Rule 2520, 9.3.2 and District NSR Rule] Federally Enforceable Through Title V Permit
67. During periods of electrostatic precipitator maintenance and furnace startup, the furnace visible emissions shall be recorded by CARB certified personnel during daylight hours using EPA Method 9 within 2 hours of electrostatic precipitator shutdown or bypass and at least three times a day. Each visible emissions evaluation shall be at least 4 hours apart. [District NSR Rule] Federally Enforceable Through Title V Permit
68. The applicant shall maintain accurate records of the time, date, cause (e.g. electrostatic precipitator maintenance, furnace startup, or furnace idle), and duration electrostatic precipitator is not in operation and result of any visible emissions testing during the period. Records shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
69. The permittee shall maintain daily records of the total hours of operation, type and quantity of fuel used, quantity of glass pulled, the NOx emission rate (in lb/ton of glass pulled), the CO emission rate (in lb/ton of glass pulled), and the SOx emission rate (in lb/ton of glass pulled). The permittee shall also maintain records of source tests, the acceptable range for each approved key system operating parameter as established by source testing, all instances of maintenance and repair, any malfunction, and records of all periods of idling, startup, or shutdown. All records shall be maintained on the premises for a period of five years and shall be made available for District inspection upon request. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
70. Permittee shall keep a record of the combined daily NOx emissions, in pounds, for furnaces N-593-10 (22-C), N-593-12 (22-A) and N-593-13 (22-C). [District Rule 2201] Federally Enforceable Through Title V Permit
71. Permittee shall keep a record of the combined rolling 12-month NOx and PM10 emissions for furnaces N-593-10 (22-C), N-593-12 (22-A), and N-593-13 (22-C). This record shall be updated on a monthly basis. [District Rule 2201] Federally Enforceable Through Title V Permit
72. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rules 4201 and 4202. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
73. The requirements of District Rule 4301 were determined to not apply to this unit. A permit shield is granted from these requirements. [District Rule 2520, 13.2] 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.

74. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4801 and San Joaquin County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
75. The requirements of 40 CFR 60, Subpart CC were determined to not apply to this unit because the unit was constructed prior to the effective date in the regulation and not been modified (according to the definition of "modified" in the regulation). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
76. The requirements of 40 CFR 61, Subpart N were determined to not apply to this unit. 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: N-593-20-3

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

4,770 GAL CRUSHED CULLET STORAGE SILO #1 SERVED BY A FLEX-KLEEN BAGHOUSE (SHARED WITH CULLET SILOS #2 AND #3)

PERMIT UNIT REQUIREMENTS

1. 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
2. The differential pressure across each compartment of the baghouse shall be maintained between 1" and 8" water column. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 4102]
5. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
6. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 and San Joaquin County Rule 404. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
7. Dust collector shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. 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
10. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The differential pressure across each compartment of the baghouse shall be checked and the results recorded weekly. If the differential pressure across each compartment of the baghouse is not between 1" and 8" water column, corrective action is required prior to further operation of the equipment. Corrective action means that the cause of the improper pressure differential is corrected before operation of the equipment is resumed. [District Rule 2520, 9.3.2 and 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: N-593-21-3

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

4,770 GAL CRUSHED CULLET STORAGE SILO #2 SERVED BY A FLEX-KLEEN BAGHOUSE (SHARED WITH CULLET SILOS #1 AND #3)

PERMIT UNIT REQUIREMENTS

1. 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
2. The differential pressure across each compartment of the baghouse shall be maintained between 1" and 8" water column. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 4102]
5. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
6. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 and San Joaquin County Rule 404. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
7. Dust collector shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. 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
10. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The differential pressure across each compartment of the baghouse shall be checked and the results recorded weekly. If the differential pressure across each compartment of the baghouse is not between 1" and 8" water column, corrective action is required prior to further operation of the equipment. Corrective action means that the cause of the improper pressure differential is corrected before operation of the equipment is resumed. [District Rule 2520, 9.3.2 and 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: N-593-22-3

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

4,770 GAL CRUSHED CULLET STORAGE SILO #3 SERVED BY A FLEX-KLEEN BAGHOUSE (SHARED WITH CULLET SILOS #1 AND #2)

PERMIT UNIT REQUIREMENTS

1. 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
2. The differential pressure across each compartment of the baghouse shall be maintained between 1" and 8" water column. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 4102]
5. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
6. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 and San Joaquin County Rule 404. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
7. Dust collector shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Dust collector filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. 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
10. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
11. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

12. The differential pressure across each compartment of the baghouse shall be checked and the results recorded weekly. If the differential pressure across each compartment of the baghouse is not between 1" and 8" water column, corrective action is required prior to further operation of the equipment. Corrective action means that the cause of the improper pressure differential is corrected before operation of the equipment is resumed. [District Rule 2520, 9.3.2 and 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: N-593-27-4

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

240 BHP CATERPILLAR MODEL #3306B DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 150 KW ELECTRICAL GENERATOR (A)

PERMIT UNIT REQUIREMENTS

1. The NO_x emission rate shall not exceed 10.0 grams/hp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] 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. 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. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. 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
7. 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
8. 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 20 hours per calendar year. [District Rule 4702 and 17 CCR 93115] 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 Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used 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

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 Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
12. 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
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 Rule 4702 and 17 CCR 93115] 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 4201, San Joaquin County Rule 404, District Rule 4801 and San Joaquin County Rule 407. 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: N-593-28-4

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

380 BHP CATERPILLAR MODEL #3406 DIT DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 260 KW GENERATOR (B)

PERMIT UNIT REQUIREMENTS

1. The NO_x emission rate shall not exceed 10.0 grams/hp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] 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. 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. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. 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
7. 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
8. 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 20 hours per calendar year. [District Rule 4702 and 17 CCR 93115] 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 Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used 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

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 Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
12. 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
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 Rule 4702 and 17 CCR 93115] 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 4201, San Joaquin County Rule 404, District Rule 4801 and San Joaquin County Rule 407. 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: N-593-29-4

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

534 BHP CATERPILLAR MODEL #3406 DITA DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 350 KW ELECTRICAL GENERATOR (C)

PERMIT UNIT REQUIREMENTS

1. The NOx emission rate shall not exceed 7.2 grams/hp-hr. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency. [District NSR Rule] 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. 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. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
6. 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
7. 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
8. 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 20 hours per calendar year. [District Rule 4702 and 17 CCR 93115] 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 Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used 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

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 Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
12. 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
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 Rule 4702 and 17 CCR 93115] 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 4201, San Joaquin County Rule 404, District Rule 4801 and San Joaquin County Rule 407. 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: N-593-31-4

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

136 BHP CUMMINS MODEL #V-378-F2 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP
(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. 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
3. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. This engine shall be operated only for maintenance and testing of the engine, 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. 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 Rule 4702] Federally Enforceable Through Title V Permit
6. 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. 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. [District Rule 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. 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
9. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201, District Rule 4801 and San Joaquin County Rule 407. 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: N-593-32-4

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

185 BHP CATERPILLAR MODEL #3208 DINA DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP (3)

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. 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
3. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702 and 17 CCR 93115]
4. This engine shall be operated only for maintenance and testing of the engine, 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit
5. 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 Rule 4702] Federally Enforceable Through Title V Permit
6. 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 and 17 CCR 93115] Federally Enforceable Through Title V Permit
7. 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. [District Rule 2520, 9.4.2 and 17 CCR 93115] Federally Enforceable Through Title V Permit
8. 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
9. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201, District Rule 4801 and San Joaquin County Rule 407. 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: N-593-36-2

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

IRON CHROMITE PRE-MIX SYSTEM FOR FURNACE #22-A INCLUDING AN IRON CHROMITE BULK BAG UNLOADER SERVED BY NOL-TEC MODEL #350 DUST COLLECTOR, HOPPER, MIXER, STAGING HOPPER, FLEXIBLE SCREW FEEDER, TRANSPORTER, AIR INJECTORS, AND RECEIVING HOPPER SERVED BY A NOL-TEC MODEL #84-NT-16 BAGHOUSE, SCALE, AND SUPPORTING VALVES

PERMIT UNIT REQUIREMENTS

1. There shall be no visible emissions from the baghouse. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Material removed from the dust collectors shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
3. The baghouses cleaning frequency and duration shall be adjusted to optimize the control efficiency per manufacturer's recommendations. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The NOL-TEC Model 84-NT-16 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
5. The differential pressure across each compartment of the baghouse shall be maintained between 1" and 8" water column. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
7. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
8. Emissions from the NOL-TEC Model 350 baghouse shall not exceed 0.00024 lb-PM10 per ton of Iron Chromite throughput. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emissions from the NOL-TEC Model 84-NT-16 baghouse shall not exceed 0.0049 lb-PM10 per ton of Iron Chromite throughput. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of Iron Chromite shall not exceed 2.10 ton per day (4,200 lb per day). [District Rule 2201] Federally Enforceable Through Title V Permit
11. The pre-mix amount of soda-ash and Iron Chromite shall not exceed 4.20 ton per day (8,400 lb/day). [District Rule 2201] Federally Enforceable Through Title V Permit
12. Daily records of the Iron Chromite and soda ash throughput for the pre-mix shall be maintained, retained for at least five years, and shall be made available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
13. There shall be no fugitive emissions from conveying and elevating systems. Compliance with this requirement shall be demonstrated by conducting weekly inspections of the equipment and maintaining records of the inspections. [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 thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Dust collection system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2201] Federally Enforceable Through Title V Permit
16. When operated visible emissions from the baghouse controlling the iron chromite pre-mix system shall be checked and the results recorded daily. If visible emissions are observed, corrective action is required prior to further operation of the equipment. Corrective action means that visible emissions are eliminated before operation of the equipment is resumed. If visible emissions cannot be corrected within 24 hours, a visible emissions test shall be conducted by a trained observer using EPA method 9 within 72 hours. A record of the results of these observations shall be maintained. Such records shall include the observer's name and affiliation, the date, time, sky condition, and the observer's location relative to the source. [40 CFR Part 64] Federally Enforceable Through Title V Permit
17. The permittee shall maintain daily records of the differential pressure across the baghouse filter. [40 CFR 64.9] Federally Enforceable Through Title V Permit
18. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR 64.9] Federally Enforceable Through Title V Permit
19. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR 64.8] Federally Enforceable Through Title V Permit
20. 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 2201] Federally Enforceable Through Title V Permit
21. The differential pressure across each compartment of the baghouse shall be checked and the results recorded weekly. If the differential pressure across each compartment of the baghouse is not between 1" and 8" water column, corrective action is required prior to further operation of the equipment. Corrective action means that the cause of the improper pressure differential is corrected before operation of the equipment is resumed. [District Rule 2520, 9.3.2 and 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: N-593-37-2

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

HOT END SURFACE TREATMENT HOOD A2 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-11, '-38, '-39, '-40, AND '-41)

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. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse serving the hot end surface treatment systems shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The material removed from the baghouse and transferred into the receiver shall be prevented from being re-entrained into the atmosphere. No material shall accumulate outside of the receiver. [District Rule 4102]
8. The receiver shall remain sealed at all times except during maintenance. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emission rates from this unit shall not exceed either of the following limits: 0.01107 lb-PM10/lb-Monobutyltin Trichloride (MBTT) or 0.050 lb-VOC/lb-MBTT. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of MBTT used in this hot end surface treatment system shall not exceed 1.66 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed 8.91 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Ammonia (NH₃) emissions combined for hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed either of the following limits: 1.8 lb/hr or 150 ppmvd. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The permittee shall monitor and record the stack concentration (in ppmv) of NH₃ at least once every week using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit. [District Rule 4102]
14. Source testing to determine the rate of VOC, expressed as lb-VOC/lb-MBTT, shall be conducted at least once every twelve (12) months. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
15. VOC source testing shall be conducted using EPA Methods 18, 25, 25A, 25B, or ARB Method 100. Results shall be converted to lb-VOC/lb-MBTT. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
16. The stack gas velocities shall be determined using EPA Method 2, the stack gas moisture content shall be determined using EPA Method 4, and the gas analysis for the determination of dry molecular weight shall be determined using EPA Method 3. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. 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
19. The baghouse shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Baghouse filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Pressure gauges shall be inspected weekly and the results shall be recorded and made available for District inspection upon request. Corrective actions shall be implemented on the control equipment if indicated by the inspections. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Records of baghouse 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, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of the hourly and daily amount of MBTT used in the line shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Records of the combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Records of the weekly NH₃ concentration from the glass treatment operations shall be maintained. [District Rule 4102]
27. Records of the daily amount of glass treated from lines 22A & 22B shall be maintained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. 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
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201. 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: N-593-38-2

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

HOT END SURFACE TREATMENT HOOD B1 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-11, '-37, '-39, '-40, AND '-41)

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. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse serving the hot end surface treatment systems shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The material removed from the baghouse and transferred into the receiver shall be prevented from being re-entrained into the atmosphere. No material shall accumulate outside of the receiver. [District Rule 4102]
8. The receiver shall remain sealed at all times except during maintenance. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emission rates from this unit shall not exceed either of the following limits: 0.01107 lb-PM10/lb-Monobutyltin Trichloride (MBTT) or 0.050 lb-VOC/lb-MBTT. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of MBTT used in this hot end surface treatment system shall not exceed 1.66 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed 8.91 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Ammonia (NH3) emissions combined for hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed either of the following limits: 1.8 lb/hr or 150 ppmvd. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The permittee shall monitor and record the stack concentration (in ppmv) of NH₃ at least once every week using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit. [District Rule 4102]
14. Source testing to determine the rate of VOC, expressed as lb-VOC/lb-MBTT, shall be conducted at least once every twelve (12) months. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
15. VOC source testing shall be conducted using EPA Methods 18, 25, 25A, 25B, or ARB Method 100. Results shall be converted to lb-VOC/lb-MBTT. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
16. The stack gas velocities shall be determined using EPA Method 2, the stack gas moisture content shall be determined using EPA Method 4, and the gas analysis for the determination of dry molecular weight shall be determined using EPA Method 3. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. 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
19. The baghouse shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Baghouse filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Pressure gauges shall be inspected weekly and the results shall be recorded and made available for District inspection upon request. Corrective actions shall be implemented on the control equipment if indicated by the inspections. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Records of baghouse 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, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of the hourly and daily amount of MBTT used in the line shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Records of the combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Records of the weekly NH₃ concentration from the glass treatment operations shall be maintained. [District Rule 4102]
27. Records of the daily amount of glass treated from lines 22A & 22B shall be maintained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. 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
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201. 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: N-593-39-2

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

HOT END SURFACE TREATMENT HOOD B2 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-11, '-37, '-38, '-40, AND '-41)

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. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse serving the hot end surface treatment systems shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The material removed from the baghouse and transferred into the receiver shall be prevented from being re-entrained into the atmosphere. No material shall accumulate outside of the receiver. [District Rule 4102]
8. The receiver shall remain sealed at all times except during maintenance. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emission rates from this unit shall not exceed either of the following limits: 0.01107 lb-PM10/lb-Monobutyltin Trichloride (MBTT) or 0.050 lb-VOC/lb-MBTT. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of MBTT used in this hot end surface treatment system shall not exceed 1.66 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed 8.91 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Ammonia (NH₃) emissions combined for hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed either of the following limits: 1.8 lb/hr or 150 ppmvd. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

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

13. The permittee shall monitor and record the stack concentration (in ppmv) of NH₃ at least once every week using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit. [District Rule 4102]
14. Source testing to determine the rate of VOC, expressed as lb-VOC/lb-MBTT, shall be conducted at least once every twelve (12) months. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
15. VOC source testing shall be conducted using EPA Methods 18, 25, 25A, 25B, or ARB Method 100. Results shall be converted to lb-VOC/lb-MBTT. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
16. The stack gas velocities shall be determined using EPA Method 2, the stack gas moisture content shall be determined using EPA Method 4, and the gas analysis for the determination of dry molecular weight shall be determined using EPA Method 3. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. 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
19. The baghouse shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Baghouse filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Pressure gauges shall be inspected weekly and the results shall be recorded and made available for District inspection upon request. Corrective actions shall be implemented on the control equipment if indicated by the inspections. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Records of baghouse 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, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of the hourly and daily amount of MBTT used in the line shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Records of the combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Records of the weekly NH₃ concentration from the glass treatment operations shall be maintained. [District Rule 4102]
27. Records of the daily amount of glass treated from lines 22A & 22B shall be maintained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. 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
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201. 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: N-593-40-2

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

HOT END SURFACE TREATMENT HOOD C2 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-11, '-37, '-38, '-39, AND '-41)

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. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse serving the hot end surface treatment systems shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The material removed from the baghouse and transferred into the receiver shall be prevented from being re-entrained into the atmosphere. No material shall accumulate outside of the receiver. [District Rule 4102]
8. The receiver shall remain sealed at all times except during maintenance. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emission rates from this unit shall not exceed either of the following limits: 0.01107 lb-PM10/lb-Monobutyltin Trichloride (MBTT) or 0.050 lb-VOC/lb-MBTT. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of MBTT used in this hot end surface treatment system shall not exceed 1.66 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed 8.91 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Ammonia (NH3) emissions combined for hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed either of the following limits: 1.8 lb/hr or 150 ppmvd. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The permittee shall monitor and record the stack concentration (in ppmv) of NH₃ at least once every week using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit. [District Rule 4102]
14. Source testing to determine the rate of VOC, expressed as lb-VOC/lb-MBTT, shall be conducted at least once every twelve (12) months. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
15. VOC source testing shall be conducted using EPA Methods 18, 25, 25A, 25B, or ARB Method 100. Results shall be converted to lb-VOC/lb-MBTT. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
16. The stack gas velocities shall be determined using EPA Method 2, the stack gas moisture content shall be determined using EPA Method 4, and the gas analysis for the determination of dry molecular weight shall be determined using EPA Method 3. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. 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
19. The baghouse shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Baghouse filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Pressure gauges shall be inspected weekly and the results shall be recorded and made available for District inspection upon request. Corrective actions shall be implemented on the control equipment if indicated by the inspections. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Records of baghouse 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, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of the hourly and daily amount of MBTT used in the line shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Records of the combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Records of the weekly NH₃ concentration from the glass treatment operations shall be maintained. [District Rule 4102]
27. Records of the daily amount of glass treated from line 22C shall be maintained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. 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
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201. 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: N-593-41-2

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

HOT END SURFACE TREATMENT HOOD C3 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-11, '-37, '-38, '-39, AND '-40)

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. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation $E = 3.59 \times P^{0.62}$ if P is less than or equal to 30 tons per hour, or $E = 17.31 \times P^{0.16}$ if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse serving the hot end surface treatment systems shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The material removed from the baghouse and transferred into the receiver shall be prevented from being re-entrained into the atmosphere. No material shall accumulate outside of the receiver. [District Rule 4102]
8. The receiver shall remain sealed at all times except during maintenance. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emission rates from this unit shall not exceed either of the following limits: 0.01107 lb-PM10/lb-Monobutyltin Trichloride (MBTT) or 0.050 lb-VOC/lb-MBTT. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of MBTT used in this hot end surface treatment system shall not exceed 1.66 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed 8.91 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Ammonia (NH3) emissions combined for hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed either of the following limits: 1.8 lb/hr or 150 ppmvd. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

13. The permittee shall monitor and record the stack concentration (in ppmv) of NH₃ at least once every week using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit. [District Rule 4102]
14. Source testing to determine the rate of VOC, expressed as lb-VOC/lb-MBTT, shall be conducted at least once every twelve (12) months. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
15. VOC source testing shall be conducted using EPA Methods 18, 25, 25A, 25B, or ARB Method 100. Results shall be converted to lb-VOC/lb-MBTT. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
16. The stack gas velocities shall be determined using EPA Method 2, the stack gas moisture content shall be determined using EPA Method 4, and the gas analysis for the determination of dry molecular weight shall be determined using EPA Method 3. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. 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
19. The baghouse shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Baghouse filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Pressure gauges shall be inspected weekly and the results shall be recorded and made available for District inspection upon request. Corrective actions shall be implemented on the control equipment if indicated by the inspections. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Records of baghouse 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, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of the hourly and daily amount of MBTT used in the line shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Records of the combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Records of the weekly NH₃ concentration from the glass treatment operations shall be maintained. [District Rule 4102]
27. Records of the daily amount of glass treated from line 22C shall be maintained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. 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
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201. 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: N-593-42-3

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

TRONA/DRY REAGENT RECEIVING AND STORAGE OPERATION WITH A 2500 CUBIC FOOT STORAGE SILO SERVED BY A MET-PRO CORP FLEX-KLEEN VENT FILTER (OR EQUIVALENT)

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. Visible emissions from the exhaust of the bin vent filter shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District Rule 2201] Federally Enforceable Through Title V Permit
3. All ducting and control equipment shall be in good working order to prevent fugitive particulate emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
4. All filters shall be properly maintained and must be in place during the receiving of trona/dry reagent. [District Rule 2201] Federally Enforceable Through Title V Permit
5. Replacement filters numbering at least 10% of the total number of filters in the largest bin vent filter using each type of filter shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The bin vent filter cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The quantity of Trona/dry reagent delivered to the silo shall not exceed 120 tons in any one day. [District Rule 2201]
8. PM10 emissions from the Trona/dry reagent receiving operation shall not exceed 0.00034 lb/ton. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Permittee shall keep a record of the daily quantity of Trona/dry reagent delivered to the silo, in tons. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The bin vent filter 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
11. The differential pressure gauge reading range for the bin vent filter shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The differential operating pressure across the bin vent filter 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 the bin vent filter, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
14. All records shall be retained for a period of at least 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: N-593-43-1

EXPIRATION DATE: 07/31/2012

EQUIPMENT DESCRIPTION:

FULLY ENCLOSED IRON CHROMITE MATERIAL HANDLING SYSTEM CONSISTING OF ONE 65 CU FT STORAGE BIN CONTROLLED BY A FLEX-KLEEN BAGHOUSE DUST COLLECTOR, ONE WEIGH SCREW FEEDER, ONE WEIGH HOPPER WITH LOAD CELLS, ONE COVERED METERING VIBRATORY FEEDER, AND AIR CONVEYANCE LINES

PERMIT UNIT REQUIREMENTS

1. Visible emissions 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 the 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. The dust collector 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 the dust collector 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 the dust collector shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
8. The dust collector shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District NSR Rule] Federally Enforceable Through Title V Permit
9. The differential pressure gauge reading range for the dust collector shall be established per manufacturer's recommendation at time of start up inspection. [District NSR Rule] Federally Enforceable Through Title V Permit
10. The PM10 emissions from the dust collector shall not exceed 0.02 gr/dscf. [District NSR Rule] Federally Enforceable Through Title V Permit
11. Differential operating pressure for the dust collector shall be monitored and recorded on each day that the dust collector operates. [District NSR Rule] Federally Enforceable Through Title V Permit
12. Records of all maintenance of the dust collector, including all change outs of filter media, shall be maintained. [District NSR Rule] Federally Enforceable Through Title V Permit
13. Records of inspections and repair for the 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 1070] Federally Enforceable Through Title V Permit
14. 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] 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=593

Sorted by Facility Name and Permit Number

OWENS-BROCKWAY GLASS CONTAINER 14700 W SCHULTE ROAD TRACY, CA 95376	FAC # STATUS: TELEPHONE:	N 593 A 2098355701	TYPE: TOXIC ID:	TitleV 20921	EXPIRE ON: AREA: INSP. DATE:	07/31/2012 4 / 07/13
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-593-1-0	326 HP (TOTAL)	3020-01 E	1	412.00	412.00	D	PAPER WASTE SYSTEM: HORZ. PAPER BALER 15 HP, 40" SHREDDER AND PINCH CONVEYOR 32 HP, #45 SHREDDER DISCHARGE BLOWER 30 HP, #50 CYCLONE SEPARATOR, PAPER SLITTER 3 HP, UNDERGROUND PAPER STACKER 2 HP, PARTITION SAW 144 HP, #70 INDUSTRIAL EXHAUSTER 100 HP.
N-593-2-8	5.5 HP	3020-01 A	1	87.00	87.00	A	HOT END SURFACE TREATMENT HOOD A1 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-11, '-37, '-38, '-39, '-40, AND '-41)
N-593-3-3	194.5 hp electric motors	3020-01 D	1	314.00	314.00	A	BATCH CONSTITUENTS HANDLING SYSTEM: RAW MATERIAL UNLOADING HOPPER, CONVEYING, WEIGHING AND MIXING SERVED BY A BAGHOUSE
N-593-4-3	4.5 hp electric motors	3020-01 A	1	87.00	87.00	A	BATCH CONSTITUENTS HANDLING SYSTEM: NEW MINOR INGREDIENTS SYSTEM SERVED BY A BAGHOUSE
N-593-5-3	52 hp electric motors	3020-01 C	1	197.00	197.00	A	BATCH CONSTITUENTS HANDLING SYSTEM: CULLET CRUSHING, ELEVATING, AND BLENDING
N-593-6-3	40.75 hp electric motors	3020-01 B	1	117.00	117.00	A	BATCH CONSTITUENTS HANDLING SYSTEM: BATCH DISTRIBUTION AND CONVEYING TO FURNACE #22-C SERVED BY A BAGHOUSE
N-593-7-3	21.5 hp electric motors	3020-01 A	1	87.00	87.00	A	BATCH CONSTITUENTS HANDLING SYSTEM: BATCH DISTRIBUTION AND CONVEYING TO FURNACE #22-A SERVED BY A BAGHOUSE
N-593-8-3	3.75 hp electric motors	3020-01 A	1	87.00	87.00	A	BATCH CONSTITUENTS HANDLING SYSTEM: BATCH DISTRIBUTION AND CONVEYING TO FURNACE #22-B SERVED BY A BAGHOUSE
N-593-9-2	56 HP	3020-01 C	1	197.00	197.00	D	BATCH CONSTITUENTS HANDLING SYSTEM: PNEUMATIC COLORANT DELIVERY SYSTEM SERVED BY A BAGHOUSE
N-593-10-14	60 MMBtu/hr	3020-02 H	1	1,030.00	1,030.00	A	60 MMBTU/HR GLASS MELTING FURNACE #22-C WITH A CUSTOM GEA BISCHOFF INC. DRY SOX SCRUBBER, A GEA BISCHOFF MODEL BS 780 10 / 5.0 / 2 X 11 / 0.4 ELECTROSTATIC PRECIPITATOR, WITH A 153 CUBIC FOOT STORAGE SILO AND A 190 CUBIC FOOT STORAGE SILO, EACH WITH A MET-PRO CORP FLEX-KLEEN BIN VENT FILTER (OR EQUIVALENT)
N-593-11-8	4 HP	3020-01 A	1	87.00	87.00	A	HOT END SURFACE TREATMENT HOOD C1 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-37, '-38, '-39, '-40, AND '-41)
N-593-12-12	29 MMBtu/hr	3020-02 H	1	1,030.00	1,030.00	A	29 MMBTU/HR OXYGEN-ENRICHED AIR-STAGING (OEAS) GLASS MELTING FURNACE #22-A WITH A CUSTOM GEA BISCHOFF INC. DRY SOX SCRUBBER, A GEA BISCHOFF MODEL BS 780 10 / 5.0 / 2 X 7 / 0.4 ELECTROSTATIC PRECIPITATOR, WITH A 153 CUBIC FOOT STORAGE SILO AND A 190 CUBIC FOOT STORAGE SILO, EACH WITH A MET-PRO CORP FLEX-KLEEN BIN VENT FILTER (OR EQUIVALENT)

Detailed Facility Report
For Facility=593
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-593-13-10	67 MMBtu/hr	3020-02 H	1	1,030.00	1,030.00	A	67 MMBTU/HR OXYGEN-ENRICHED AIR STAGING (OEAS) GLASS MELTING FURNACE #22-B WITH A CUSTOM GEA BISCHOFF INC. DRY SOX SCRUBBER, A GEA BISCHOFF MODEL BS 780 10 / 5.0 / 2 X 11 / 0.4 ELECTROSTATIC PRECIPITATOR, WITH A 153 CUBIC FOOT STORAGE SILO AND A 190 CUBIC FOOT STORAGE SILO, EACH WITH A MET-PRO CORP FLEX-KLEEN BIN VENT FILTER (OR EQUIVALENT)
N-593-14-1	36 HP	3020-01 B	1	117.00	117.00	D	CULLET PROCESSING SYSTEM: LOADING HOPPER, CONVEYING AND 3/4" MESH SCREENING SERVED BY WATER FOG NOZZLES
N-593-15-1	75 HP	3020-01 C	1	197.00	197.00	D	CULLET PROCESSING SYSTEM: IMPACT CULLET CRUSHER AND ASSOCIATED CONVEYOR SERVED BY A BAGHOUSE
N-593-16-2	6.4 HP	3020-01 A	1	87.00	87.00	D	IRON CHROMITE RECEIVING HOPPER AND CONVEYING TO FURNACE "B" SERVED BY A BAGHOUSE
N-593-17-2	6.4 HP	3020-01 A	1	87.00	87.00	D	IRON CHROMITE STORAGE AND WEIGHING (FURNACE "B") SERVED BY A BAGHOUSE
N-593-18-0	70 KVA	3020-03 B	1	117.00	117.00	D	WRAP SHRINK LABELER UNIT, LINE C-1
N-593-19-0	70 KVA	3020-03 B	1	117.00	117.00	D	WRAP SHRINK LABELER UNIT, LINE B-2
N-593-20-3	4,770 gal storage	3020-05 A	1	75.00	75.00	A	4,770 GAL CRUSHED CULLET STORAGE SILO #1 SERVED BY A FLEX-KLEEN BAGHOUSE (SHARED WITH CULLET SILOS #2 AND #3)
N-593-21-3	4,770 gal storage	3020-05 A	1	75.00	75.00	A	4,770 GAL CRUSHED CULLET STORAGE SILO #2 SERVED BY A FLEX-KLEEN BAGHOUSE (SHARED WITH CULLET SILOS #1 AND #3)
N-593-22-3	4,770 gal storage	3020-05 A	1	75.00	75.00	A	4,770 GAL CRUSHED CULLET STORAGE SILO #3 SERVED BY A FLEX-KLEEN BAGHOUSE (SHARED WITH CULLET SILOS #1 AND #2)
N-593-23-0	2 HP	3020-01 A	1	87.00	87.00	D	ONE (1) FLEX-KLEEN BAGHOUSE SERVING THE CRUSHED CULLET SILOS.
N-593-24-0	70 KVA	3020-03 B	1	117.00	117.00	D	ONE (1) OWENS-ILLINOIS WRAP SHRINK LABELING (WSL) MACHINE, (RATED AT 70 KVA) FOR OFF-LINE WRAP SHRINK LINE TO FURNACE "A". ONLY ELECTRIC HEAT SHALL BE USED. CONTROL WILL BE BY THERMAL DESTRUCTION TO FURNACE "A".
N-593-25-0	1 NOZZLE	3020-11 A	1	34.00	34.00	D	ONE (1) 500 GALLON ABOVEGROUND GASOLINE STORAGE TANK SERVED BY AN EMCO WHEATON COAXIAL PHASE I VAPOR RECOVERY SYSTEM AND ONE (1) NOZZLE.
N-593-27-4	240 bhp IC engine	3020-10 C	1	240.00	240.00	A	240 BHP CATERPILLAR MODEL #3306B DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 150 KW ELECTRICAL GENERATOR (A)
N-593-28-4	380 bhp IC engine	3020-10 C	1	240.00	240.00	A	380 BHP CATERPILLAR MODEL #3406 DIT DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 260 KW GENERATOR (B)
N-593-29-4	534 bhp IC engine	3020-10 D	1	479.00	479.00	A	534 BHP CATERPILLAR MODEL #3406 DITA DIESEL-FIRED EMERGENCY STANDBY IC ENGINE POWERING A 350 KW ELECTRICAL GENERATOR (C)

Detailed Facility Report
For Facility=593
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-593-30-2	145 HP	3020-10 B	1	117.00	117.00	D	ONE (1) 145 HP WAUKESHA GASOLINE FIRED IC ENGINE (MODEL # 145GZUF) POWERING FIRE PUMP "1"
N-593-31-4	136 bhp IC engine	3020-10 B	1	117.00	117.00	A	136 BHP CUMMINS MODEL #V-378-F2 DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP (2)
N-593-32-4	185 bhp IC engine	3020-10 B	1	117.00	117.00	A	185 BHP CATERPILLAR MODEL #3208 DINA DIESEL-FIRED EMERGENCY IC ENGINE POWERING A FIREWATER PUMP (3)
N-593-35-2	47 hp electric motors	3020-01 B	1	117.00	117.00	D	COLOR CONCENTRATE SYSTEM FOR FURNACE #22-A INCLUDING A COLORANT BAG UNLOADER SERVED BY NOL-TEC MODEL #350 CARTRIDGE DUST COLLECTOR, PNEUMATIC AIR CONVEYOR, FILTER RECEIVER SERVED BY NOL-TEC MODEL #36-FR-14 BAGHOUSE, VACUUM PUMP, HOPPER/SCALE ASSEMBLY, DELIVERY EQUIPMENT, AND SUPPORTING HARDWARE
N-593-36-2	11.5 hp electric motors	3020-01 A	1	87.00	87.00	A	IRON CHROMITE PRE-MIX SYSTEM FOR FURNACE #22-A INCLUDING AN IRON CHROMITE BULK BAG UNLOADER SERVED BY NOL-TEC MODEL #350 DUST COLLECTOR, HOPPER, MIXER, STAGING HOPPER, FLEXIBLE SCREW FEEDER, TRANSPORTER, AIR INJECTORS, AND RECEIVING HOPPER SERVED BY A NOL-TEC MODEL #84-NT-16 BAGHOUSE, SCALE, AND SUPPORTING VALVES
N-593-37-2	5.5 HP	3020-01 A	1	87.00	87.00	A	HOT END SURFACE TREATMENT HOOD A2 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-11, '-38, '-39, '-40, AND '-41)
N-593-38-2	5.5 HP	3020-01 A	1	87.00	87.00	A	HOT END SURFACE TREATMENT HOOD B1 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-11, '-37, '-39, '-40, AND '-41)
N-593-39-2	5.5 HP	3020-01 A	1	87.00	87.00	A	HOT END SURFACE TREATMENT HOOD B2 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-11, '-37, '-38, '-40, AND '-41)
N-593-40-2	4 HP	3020-01 A	1	87.00	87.00	A	HOT END SURFACE TREATMENT HOOD C2 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-11, '-37, '-38, '-39, AND '-41)
N-593-41-2	4 HP	3020-01 A	1	87.00	87.00	A	HOT END SURFACE TREATMENT HOOD C3 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-11, '-37, '-38, '-39, AND '-40)
N-593-42-3	< 25 Hp	3020-01 A	1	87.00	87.00	A	TRONA/DRY REAGENT RECEIVING AND STORAGE OPERATION WITH A 2500 CUBIC FOOT STORAGE SILO SERVED BY A MET-PRO CORP FLEX-KLEEN VENT FILTER (OR EQUIVALENT)

Detailed Facility Report

For Facility=593

Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-593-43-1	2.5 HP	3020-01 A	1	87.00	87.00	A	FULLY ENCLOSED IRON CHROMITE MATERIAL HANDLING SYSTEM CONSISTING OF ONE 65 CU FT STORAGE BIN CONTROLLED BY A FLEX-KLEEN BAGHOUSE DUST COLLECTOR, ONE WEIGH SCREW FEEDER, ONE WEIGH HOPPER WITH LOAD CELLS, ONE COVERED METERING VIBRATORY FEEDER, AND AIR CONVEYANCE LINES

Number of Facilities Reported: 1

ATTACHMENT D

Rule 4601 SIP Comparison

Stringency Comparison of District Rule 4601 Non-SIP Version (12/17/09) to Current SIP Version (10/31/01)

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
2.0 Applicability	This rule is applicable to any person who supplies, sells, offers for sale, applies, or solicits the application of any architectural coating, or who manufactures any architectural coating for use within the District.	This rule is applicable to any person who supplies, sells, offers for sale, applies, or solicits the application of any architectural coating, or who manufactures, blends or repackages any architectural coating for use within the District.	No change in the applicability, therefore, non-SIP version of rule is as stringent as SIP version.
4.0 Exemptions	<p>The provisions of this rule shall not apply to:</p> <p>4.1 Any architectural coating that is sold or manufactured for use outside of the District or for shipment to other manufacturers for reformulation or repackaging.</p> <p>4.2 Any architectural coating that is sold in a containers with a volume of one liter (1.057 quarts) or less.</p> <p>4.3 Any aerosol coating product.</p>	<p>4.1 The provisions of this rule shall not apply to:</p> <p>4.1.1 Any architectural coating that is supplied, sold, offered for sale, or manufactured for use outside of the District or for shipment to other manufacturers for reformulation or repackaging.</p> <p>4.1.2 Any aerosol coating product.</p> <p>4.2 With the exception of Section 6.2, the provisions of this rule shall not apply to any architectural coating that is sold in a container with a volume of one liter (1.057 quarts) or less.</p>	The only change is to require reporting requirements as discussed in Section 6.2 of the non-SIP approved version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.
5.0 Requirements	Note: Section 5.0 requirements refer to Table of Standards, Table of Standards 1, and Table of Standards 2. These tables are included as Attachment X.		
	<p>5.1 VOC Content Limits: Except as provided in Sections 5.2, 5.3, 5.8 and 8.0, no person shall:</p> <p>5.1.1 manufacture, blend, or repackage for sale within the District;</p> <p>5.1.2 supply, sell, or offer for sale within the district;</p> <p>5.1.3 solicit for application or apply within the District any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards, after the specified effective date in the Table of Standards.</p>	<p>5.1 VOC Content Limits: Except as provided in Sections 5.2 and 5.3, no person shall: manufacture, blend, or repackage for use within the District; or supply, sell, or offer for sale within the District; or solicit for application or apply within the District any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards 1 or the Table of Standards 2, after the specified effective date in the Table of Standards 1 or the Table of Standards 2. Limits are expressed as VOC Regulatory, thinned to the manufacturer's maximum thinning recommendation, excluding any colorant added to tint bases.</p>	Sections 5.8 and 8.0 of the SIP version are not included in the non-SIP version. As discussed in corresponding sections the non-SIP version is more stringent. The Table of Standards and Table of Standards 1 have the same VOC limits. Table of Standard 2 is more stringent as discussed below. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.
	<p>5.2 Most Restrictive VOC Limit: If anywhere on the container of any architectural coating, or any label or sticker affixed to the container, or in any sales, advertising, or technical literature supplied by a manufacturer or anyone acting on their behalf, any representation is made that indicates that the coating meets the definition of or is recommended for use for more than one of the coating categories listed in the Table of Standards, then the most restrictive VOC content limit shall apply. This provision does not apply to the following coating categories:</p> <p>5.2.1 Lacquer coatings (including lacquer sanding sealers)</p> <p>5.2.2 Metallic pigmented coatings</p> <p>5.2.3 Shellacs</p> <p>5.2.4 Fire-retardant coatings</p> <p>5.2.5 Pretreatment wash primers</p> <p>5.2.6 Industrial maintenance coatings</p> <p>5.2.7 Low-solids coatings</p>	<p>5.2 Most Restrictive VOC Limit: If a coating meets the definition in Section 3.0 for one or more specialty coating categories listed in the Table of Standards 1 or the Table of Standards 2, then that coating is not required to meet the VOC limits for Flat, Nonflat, or Nonflat – High Gloss coatings, but is required to meet the VOC limit for the applicable specialty coating listed in the Table of Standards 1 or the Table of Standards 2.</p> <p>5.2.1 Effective until December 31, 2010, with the exception of the specialty coating categories specified in Section 5.2.3.1 through 5.2.3.15, if a coating is recommended for use in more than one of the specialty coating categories listed in the Table of Standards 1, the most restrictive (or lowest) VOC content limit shall apply.</p> <p>5.2.2 Effective on and after January 1, 2011, with the exception of the</p>	The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>5.2.8 Wood preservatives</p> <p>5.2.9 High temperature coatings</p> <p>5.2.10 Temperature-Indicator safety coatings</p> <p>5.2.11 Antenna coatings</p> <p>5.2.12 Antifouling coatings</p> <p>5.2.13 Flow coatings</p> <p>5.2.14 Bituminous roof primers</p> <p>5.2.15 Specialty primers, sealers and undercoaters</p>	<p>specialty coating categories specified in Sections 5.2.3.2, 5.2.3.3, 5.2.3.5 through 5.2.3.9, and 5.2.3.14 through 5.2.3.18, if a coating is recommended for use in more than one of the specialty coating categories listed in the Table of Standards 2, the most restrictive (or lowest) VOC content limit shall apply.</p> <p>5.2.3 This requirement applies to: usage recommendations that appear anywhere on the coating container, anywhere on any label or sticker affixed to the container, or in any sales, advertising, or technical literature supplied by a manufacturer or anyone acting on their behalf.</p> <p>5.2.3.1 Lacquer coatings (including lacquer sanding sealers)</p> <p>5.2.3.2 Metallic pigmented coatings</p> <p>5.2.3.3 Shellacs</p> <p>5.2.3.4 Fire-retardant coatings</p> <p>5.2.3.5 Pretreatment wash primers</p> <p>5.2.3.6 Industrial maintenance coatings</p> <p>5.2.3.7 Low-solids coatings</p> <p>5.2.3.8 Wood preservatives</p> <p>5.2.3.9 High temperature coatings</p> <p>5.2.3.10 Temperature-indicator safety coatings</p> <p>5.2.3.11 Antenna coatings</p> <p>5.2.3.12 Antifouling coatings</p> <p>5.2.3.13 Flow coatings</p> <p>5.2.3.14 Bituminous roof primers</p> <p>5.2.3.15 Specialty primers, sealers and undercoaters</p> <p>5.2.3.16 Aluminum roof coatings</p> <p>5.2.3.17 Zinc-rich primers</p> <p>5.2.3.18 Wood Coatings</p>	
	<p>5.3 Sell-Through of Coatings:</p> <p>5.3.1 A coating manufactured prior to the January 1, 2003 or January 1, 2004 effective date specified for that coating in the Table of Standards may be sold, supplied, or offered for sale for up to three years after the specified effective date. In addition, a coating manufactured before the effective date specified for that coating in the Table of Standards may be applied at any time, both before and after the specified effective date, so long as the coating complied with the standards in effect at the time the coating was manufactured. This Section 5.3 does not apply to any coating that does not display the date or date-code required by Section 6.1.1.</p> <p>5.3.2 A coating included in an approved Averaging Program that does not comply with the specified limit in the</p>	<p>5.3 Sell-Through of Coatings:</p> <p>A coating manufactured prior to the effective date specified for that coating in the Table of Standards 1 or the Table of Standards 2, and that complied with the standards in effect at the time the coating was manufactured, may be sold, supplied, or offered for sale for up to three years after the specified effective date. In addition, a coating manufactured before the effective date specified for that coating in the Table of Standards 1 or the Table of Standards 2 may be applied at any time, both before and after the specified effective date, so long as the coating complied with the standards in effect at the time the coating was manufactured. This Section 5.3 does not apply to any coating that does not display the date or date-code required by Section 6.1.1.</p>	<p>The VOC limit of the non-SIP version is at least as stringent as the SIP version. Section 5.3.2 was removed it is no longer applicable in the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</p>

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>Table of Standards may be sold, supplied, or offered for sale for up to three years after the end of the compliance period specified in the approved Averaging Program. In addition, such a coating may be applied at any time, both during and after the compliance period. This Section 5.3.2 does not apply to any coating that does not display on the container either the statement: "This product is subject to architectural coatings averaging provisions in California" or a substitute symbol specified by the Executive Officer of the California Air Resources Board (ARB). This Section 5.3.2 shall remain in effect until January 1, 2008.</p>		
	<p>5.4 Painting Practices: All architectural coating containers used to apply the contents therein to a surface directly from the container by pouring, siphoning, brushing, rolling, padding, ragging or other means, shall be closed when not in use. These architectural coating containers include, but are not limited to, drums, buckets, cans, pails, trays or other application containers. Containers of any VOC containing materials used for thinning and cleanup shall also be closed when not in use.</p>	<p>5.4 Painting Practices: All architectural coating containers used to apply the contents therein to a surface directly from the container by pouring, siphoning, brushing, rolling, padding, ragging or other means, shall be closed when not in use. These architectural coating containers include, but are not limited to, drums, buckets, cans, pails, trays or other application containers. Containers of any VOC-containing materials used for thinning and cleanup shall also be closed when not in use.</p>	<p>No change in the requirements, therefore, non-SIP version of rule is as stringent as SIP version.</p>
	<p>5.5 Thinning: No person who applies or solicits the application of any architectural coating shall apply a coating that is thinned to exceed the applicable VOC limit specified in the Table of Standards.</p>	<p>5.5 Thinning: No person who applies or solicits the application of any architectural coating shall apply a coating that is thinned to exceed the applicable VOC limit specified in the Table of Standards 1 or the Table of Standards 2.</p>	<p>The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</p>
	<p>5.6 Rust Preventative Coatings: Effective January 1, 2004, no person shall apply or solicit the application of any rust preventative coating for industrial use, unless such a rust preventative coating complies with the industrial maintenance coating VOC limit specified in the Table of Standards.</p>	<p>5.6 Rust Preventative Coatings: Effective through December 31, 2010, no person shall apply or solicit the application of any rust preventative coating for industrial use, unless such a rust preventative coating complies with the industrial maintenance coating VOC limit specified in the Table of Standards 1.</p>	<p>The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</p>
	<p>5.7 Coatings Not Listed in the Table of Standards: For any coating that does not meet any of the definitions for the specialty coatings categories listed in the Table of Standards, the VOC content limit shall be determined by classifying the coating as a flat coating or a nonflat coating, based on its gloss, as defined in Sections 3.21, 3.36 and 3.37 and the corresponding flat or nonflat VOC limit shall apply.</p>	<p>5.7 Coatings Not Listed in the Table of Standards 1 or the Table of Standards 2: For any coating that does not meet any of the definitions for the specialty coatings categories listed in the Table of Standards 1 or the Table of Standards 2, the VOC content limit shall be determined by classifying the coating as a Flat, Nonflat, or Nonflat – High Gloss coating, based on its gloss, and the corresponding Flat, Nonflat, or Nonflat – High Gloss VOC limit in the Table of Standards 1 or the Table of Standards 2 shall apply.</p>	<p>The VOC limit of the non-SIP version is at least as stringent as the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</p>
	<p>5.8 Lacquers: Notwithstanding the provisions of Section 3.1, a person or facility may add up to 10 percent by volume of VOC to a lacquer to avoid blushing of the finish during days with relative humidity greater</p>	<p>—</p>	<p>This section has been removed. The operation is required to meet the lacquer VOC limit regardless of</p>

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	than 70 percent and temperature below 65°F, at the time of application, provided that the coating contains acetone and no more than 550 grams of VOC per liter of coating, less water and exempt compounds, prior to the addition of VOC.		temperature and humidity. Therefore, non-SIP version of rule is as stringent as SIP version
	5.9 Averaging Compliance Option: On or after January 1, 2003, in lieu of compliance with the specified limits in The Table of Standards for floor coatings; industrial maintenance coatings; primers, sealers, and undercoaters; quick-dry primers, sealers, and undercoaters; quick-dry enamels; roof coatings; bituminous roof coatings; rust preventative coatings; stains; waterproofing sealers, as well as flats and non-flats (excluding recycled coatings), manufacturers may average designated coatings such that their actual cumulative emissions from the averaged coatings are less than or equal to the cumulative emissions that would have been allowed under those limits over a compliance period not to exceed one year. Such manufacturers must also comply with the averaging provisions contained in Section 8.0, as well as maintain and make available for inspection records for at least three years after the end of the compliance period. This Section 5.9 and Section 8.0 shall cease to be effective on January 1, 2005, after which averaging will no longer be allowed.	---	This section is removed from the non-SIP version, it is no longer applicable. Therefore, non-SIP version of rule is as stringent as SIP version.
	---	5.8 Prior to January 1, 2011, any coating that meets a definition in Section 3.0 for a coating category listed in the Table of Standards 2 and complies with the applicable VOC limit in the Table of Standards 2 and with Sections 5.2 and 6.1 (including those provision of Section 6.1 otherwise effective on January 1, 2011) shall be considered in compliance with this rule.	Table of Standards 2 is more stringent than the VOC limits of Table of Standards in the SIP-Approved version. Therefore, non-SIP version of rule is as stringent as SIP version.
	Table of Standards (See Attachment X for Table)	Table of Standards 1 (Effective through 12/31/10) (See Attachment X for Table)	The non-SIP rule requirements are the same as the Table of Standards in the SIP approved rule, except Table of Standards 1 expires at which time Table of Standards 2 is in effect. As discussed below these standards are more stringent. Therefore, non-SIP version of rule is as stringent as SIP version.
		Table of Standards 2 (Effective on and after 1/1/11) (See Attachment X for Table)	The requirements of Table of Standards 2 are more stringent than the Table of Standards in the SIP rule. Therefore, non-SIP version of rule is as stringent as SIP version.
6.0 Administrative Requirements	6.1 Labeling Requirements: Each manufacturer of any architectural coating subject to this rule shall display the information listed in Sections	6.1 Labeling Requirements: Each manufacturer of any architectural coating subject to this rule shall display the	The non-SIP approved rule contain sections listed in the SIP rule plus

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>6.1.1 through 6.1.9 on the coating container (or label) in which the coating is sold or distributed.</p> <p>6.1.1 Date Code: The date the coating was manufactured, or a date code representing the date, shall be indicated on the label, lid or bottom of the container. If the manufacturer uses a date code for any coating, the manufacturer shall file an explanation of each code with the Executive Officer of the ARB.</p> <p>6.1.2 Thinning Recommendations: A statement of the manufacturer's recommendation regarding thinning of the coating shall be indicated on the label or lid of the container. This requirement does not apply to the thinning of architectural coatings with water. If thinning of the coating prior to use is not necessary, the recommendation must specify that the coating is to be applied without thinning.</p> <p>6.1.3 VOC Content: Each container of any coating subject to this rule shall display either the maximum or actual VOC content of the coating, as supplied, including the maximum thinning as recommended by the manufacturer. VOC content shall be displayed in grams of VOC per liter of coating. VOC content displayed shall be calculated using product formulation data, or shall be determined using the test methods in Section</p> <p>6.3.1. The equations in Sections 3.25 or 3.26, as appropriate, shall be used to calculate VOC content.</p> <p>6.1.4 Industrial Maintenance Coatings: In addition to the information specified in Sections 6.1.1, 6.1.2 and 6.1.3, each manufacturer of any industrial maintenance coating subject to this rule shall display on the label or lid of the container in which the coating is sold or distributed one or more of the following descriptions listed in Section 6.1.4.1 through 6.1.4.3.</p> <p>6.1.4.1 "For industrial use only"</p> <p>6.1.4.2 "For professional use only"</p> <p>6.1.4.3 "Not for residential use" or "Not Intended for residential use"</p> <p>6.1.5 Clear Brushing Lacquers: Effective January 1, 2003, the labels of all clear brushing lacquers shall prominently display the statements "For brush application only," and "This product must not be thinned or sprayed."</p> <p>6.1.6 Rust Preventative Coatings: Effective January 1, 2003, the labels of all rust preventative coatings shall prominently display the statement "For Metal Substrates Only"</p> <p>6.1.7 Specialty Primers, Sealers and Undercoaters: Effective January 1, 2003, the labels of all specialty primers, sealers and undercoaters shall prominently</p>	<p>information listed in Sections 6.1.1 through 6.1.14 on the coating container (or label) in which the coating is sold or distributed.</p> <p>6.1.1 Date Code: The date the coating was manufactured, or a date code representing the date, shall be indicated on the label, lid or bottom of the container. If the manufacturer uses a date code for any coating, the manufacturer shall file an explanation of each code with the Executive Officer of the ARB.</p> <p>6.1.2 Thinning Recommendations: A statement of the manufacturer's recommendation regarding thinning of the coating shall be indicated on the label or lid of the container. This requirement does not apply to the thinning of architectural coatings with water. If thinning of the coating prior to use is not necessary, the recommendation must specify that the coating is to be applied without thinning.</p> <p>6.1.3 VOC Content: Each container of any coating subject to this rule shall display one of the following values, in grams of VOC per liter of coating:</p> <p>6.1.3.1 Maximum VOC Content, as determined from all potential product formulations; or</p> <p>6.1.3.2 VOC Content, as determined from actual formulation data; or</p> <p>6.1.3.3 VOC Content, as determined using the test methods in Section 6.3.2.</p> <p>If the manufacturer does not recommend thinning, the container must display the VOC Content, as supplied. If the manufacturer recommends thinning, the container must display the VOC Content, including the maximum amount of thinning solvent recommended by the manufacturer. If the coating is a multicomponent product, the container must display the VOC content as mixed or catalyzed. If the coating contains silanes, siloxanes, or other ingredients that generate ethanol or other VOCs during the curing process, the VOC content must include the VOCs emitted during curing.</p> <p>6.1.4 Faux Finishing Coatings: Effective January 1, 2011, the labels of all clear topcoat Faux Finishing coatings shall prominently display the statement "This product can only be sold or used as part of a Faux Finishing coating system".</p> <p>6.1.5 Industrial Maintenance Coatings: Each manufacturer of any industrial maintenance coating subject to this rule shall display on the label or lid of</p>	<p>additional requirements not found in the SIP version. Therefore, non-SIP version of rule is as stringent as SIP version.</p>

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>display one or more of the descriptions listed in Section</p> <p>6.1.7.1 through 6.1.7.5.</p> <p>6.1.7.1 For blocking stains.</p> <p>6.1.7.2 For fire-damaged substrates.</p> <p>6.1.7.3 For smoke-damaged substrates.</p> <p>6.1.7.4 For water-damaged substrates.</p> <p>6.1.7.5 For excessively chalky substrates.</p> <p>6.1.8 Quick Dry Enamels: Effective January 1, 2003, the labels of all quick dry enamels shall prominently display the words "Quick Dry" and the dry hard time.</p> <p>6.1.9 Non-flat – High Gloss Coatings: Effective January 1, 2003, the labels of all non-flat – high gloss coatings shall prominently display the words "High Gloss".</p>	<p>the container in which the coating is sold or distributed one or more of the following descriptions listed in Section 6.1.5.1 through 6.1.5.3.</p> <p>6.1.5.1 "For industrial use only"</p> <p>6.1.5.2 "For professional use only"</p> <p>6.1.5.3 "Not for residential use" or "Not intended for residential use"</p> <p>6.1.6 Clear Brushing Lacquers: The labels of all clear brushing lacquers shall prominently display the statements "For brush application only," and "This product must not be thinned or sprayed." (Category deleted effective January 1, 2011.)</p> <p>6.1.7 Rust Preventative Coatings: The labels of all rust preventative coatings shall prominently display the statement "For Metal Substrates Only".</p> <p>6.1.8 Specialty Primers, Sealers and Undercoaters: Effective until December 31, 2010, the labels of all specialty primers, sealers and undercoaters shall prominently display one or more of the descriptions listed in Section 6.1.8.1 through 6.1.8.5. Effective on and after January 1, 2011, the labels of all specialty primers, sealers, and undercoaters shall prominently display one or more of the descriptions listed in Sections 6.1.8.1 through 6.1.8.3. On and after January 1, 2011, Sections 6.1.8.4 and 6.1.8.5 will be no longer effective.</p> <p>6.1.8.1 For fire-damaged substrates.</p> <p>6.1.8.2 For smoke-damaged substrates.</p> <p>6.1.8.3 For water-damaged substrates.</p> <p>6.1.8.4 For excessively chalky substrates.</p> <p>6.1.8.5 For blocking stains.</p> <p>6.1.9 Quick Dry Enamels: The labels of all quick dry enamels shall prominently display the words "Quick Dry" and the dry hard time. (Category deleted effective January 1, 2011.)</p> <p>6.1.10 Reactive Penetrating Sealers: Effective January 1, 2011, the labels of all Reactive Penetrating Sealers shall prominently display the statement "Reactive Penetrating Sealer."</p> <p>6.1.11 Stone Consolidants: Effective January 1, 2011, the labels of all Stone Consolidants shall prominently display the statement "Stone Consolidant - For Professional Use Only."</p> <p>6.1.12 Nonflat– High Gloss Coatings: The labels of all Nonflat – high gloss coatings shall prominently display the words "High Gloss."</p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
		<p>6.1.13 Wood Coatings: Effective January 1, 2011, the labels of all Wood Coatings shall prominently display the statement "For Wood Substrates Only."</p> <p>6.1.14 Zinc Rich Primers: Effective January 1, 2011, the labels of all Zinc Rich Primers shall prominently display one or more of the following descriptions listed in Section 6.1.14.1 through 6.1.14.3.</p> <p>6.1.14.1 "For industrial use only"</p> <p>6.1.14.2 "For professional use only"</p> <p>6.1.14.3 "Not for residential use" or "Not Intended for residential use"</p>	
	<p>6.2 Reporting Requirements</p> <p>6.2.1 Clear Brushing Lacquers: Each manufacturer of clear brushing lacquers shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of clear brushing lacquers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.2 Rust Preventative Coatings: Each manufacturer of rust preventative coatings shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of rust preventative coatings sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.3 Specialty Primers, Sealers and Undercoaters: Each manufacturer of specialty primers, sealers and undercoaters shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of specialty primers, sealers and undercoaters sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.4 Toxic Exempt Compounds: For each architectural coating that contains perchloroethylene or methylene chloride, the manufacturer shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB the following information for products sold in the State during the preceding year:</p> <p>6.2.4.1 the product brand name and a copy of the product label with legible usage instructions;</p>	<p>6.2 Reporting Requirements</p> <p>The reporting requirements specified in Sections 6.2.1 through 6.2.6 shall apply until December 31, 2010.</p> <p>6.2.1 Clear Brushing Lacquers: Each manufacturer of clear brushing lacquers shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of clear brushing lacquers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.2 Rust Preventative Coatings: Each manufacturer of rust preventative coatings shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of rust preventative coatings sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.3 Specialty Primers, Sealers and Undercoaters: Each manufacturer of specialty primers, sealers and undercoaters shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of specialty primers, sealers and undercoaters sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p> <p>6.2.4 Toxic Exempt Compounds: For each architectural coating that contains perchloroethylene or methylene chloride, the manufacturer shall, on or before April 1 of each calendar year beginning in the year 2004, submit an</p>	<p>Until December 31, 2010 both versions of the rule have the same reporting requirements. After that date the non-SIP approved rule includes very specific information to be kept and is required for all architectural coatings. Therefore, non-SIP version of rule is as stringent as SIP version.</p>

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>6.2.4.2 the product category listed in the Table of Standards to which the coating belongs;</p> <p>6.2.4.3 the total sales in California during the calendar year to the nearest gallon;</p> <p>6.2.4.4 the volume percent, to the nearest 0.10 percent, of perchloroethylene and methylene chloride in the coating.</p> <p>6.2.5 Recycled Coatings: Manufacturers of recycled coatings must submit a letter to the Executive Officer of the ARB certifying their status as a Recycled Paint Manufacturer. The manufacturer shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall include, for all recycled coatings, the total number of gallons distributed in the State during the preceding year, and shall describe the method used by the manufacturer to calculate State distribution.</p> <p>6.2.6 Bituminous Coatings: Each manufacturer of bituminous roof coatings or bituminous roof primers shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of ARB. The report shall specify the number of gallons of bituminous roof coatings or bituminous roof primers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.</p>	<p>annual report to the Executive Officer of the ARB the following information for products sold in the State during the preceding year:</p> <p>6.2.4.1 the product brand name and a copy of the product label with legible usage instructions;</p> <p>6.2.4.2 the product category listed in the Table of Standards 1 or the Table of Standards 2 to which the coating belongs;</p> <p>6.2.4.3 the total sales in California during the calendar year to the nearest gallon;</p> <p>6.2.4.4 the volume percent, to the nearest 0.10 percent, of perchloroethylene and methylene chloride in the coating.</p> <p>6.2.5 Recycled Coatings: Manufacturers of recycled coatings must submit a letter to the Executive Officer of the ARB certifying their status as a Recycled Paint Manufacturer. The manufacturer shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall include, for all recycled coatings, the total number of gallons distributed in the State during the preceding year, and shall describe the method used by the manufacturer to calculate State distribution.</p> <p>6.2.6 Bituminous Coatings: Each manufacturer of bituminous roof coatings or bituminous roof primers shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of ARB. The report shall specify the number of gallons of bituminous roof coatings or bituminous roof primers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate state sales.</p> <p>6.2.7 Effective on and after January 1, 2011, Sales Data: All sales data listed in Sections 6.2.7.1 to 6.2.7.14 shall be maintained on-site by the responsible official for a minimum of three years. A responsible official from each manufacturer shall upon request of the Executive Officer of the ARB, or his or her delegate, provide data concerning the distribution and sales of architectural coatings. Sales data submitted by the responsible official to the Executive Officer of the ARB may be claimed as confidential, and such information shall be handled in accordance with the procedures specified in Title 17,</p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
		<p>California Code of Regulations Sections 91000-91022. The responsible official shall within 180 days provide information, including, but not limited to the data listed in Sections 6.2.7.1 through 6.2.7.14:</p> <p>6.2.7.1 the name and mailing address of the manufacturer;</p> <p>6.2.7.2 the name, address and telephone number of a contact person;</p> <p>6.2.7.3 the name of the coating product as it appears on the label and the applicable coating category;</p> <p>6.2.7.4 whether the product is marketed for interior or exterior use or both;</p> <p>6.2.7.5 the number of gallons sold in California in containers greater than one liter (1.057 quart) and equal to or less than one liter (1.057 quart);</p> <p>6.2.7.6 the VOC Actual content and VOC Regulatory content in grams per liter. If thinning is recommended, list the VOC Actual content and VOC Regulatory content after maximum recommended thinning. If containers less than one liter have a different VOC content than containers greater than one liter, list separately. If the coating is a multi-component product, provide the VOC content as mixed or catalyzed;</p> <p>6.2.7.7 the names and CAS numbers of the VOC constituents in the product;</p> <p>6.2.7.8 the names and CAS numbers of any compounds in the product specifically exempted from the VOC definition;</p> <p>6.2.7.9 whether the product is marketed as solvent-borne, waterborne, or 100% solids;</p> <p>6.2.7.10 description of resin or binder in the product;</p> <p>6.2.7.11 whether the coating is a single-component or multi-component product;</p> <p>6.2.7.12 the density of the product in pounds per gallon;</p> <p>6.2.7.13 the percent by weight of: solids, all volatile materials, water, and any compounds in the product specifically exempted from the VOC definition; and</p> <p>6.2.7.14 the percent by volume of: solids, water, and any compounds in the product specifically exempted from the VOC definition.</p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>6.3 Test Methods</p> <p>6.3.1 VOC Content of Coatings: To determine the physical properties of a coating in order to perform the calculations in Section 3.26 and 3.27, the reference method for VOC content is U.S. EPA Method 24, except as provided in Sections 6.3.2 and 6.3.15. An alternative method to determine the VOC content of coatings is SCAQMD Method 304-91 (Revised February 1995), incorporated by reference in Section 6.3.14. The exempt compounds content shall be determined by SCAQMD Method 303-91 (Revised August 1996), incorporated by reference in Section 6.3.12. To determine the VOC content of a coating, the manufacturer may use U.S. EPA Method 24, or an alternative method as provided in Section 6.3.2, formulation data, or any other reasonable means for predicting that the coating has been formulated as intended (e.g., quality assurance checks, recordkeeping). However, if there are any inconsistencies between the results of a Method 24 test and any other means for determining VOC content, the Method 24 test results will govern, except when an alternative method is approved as specified in Section 6.3.2. The District Air Pollution Control Officer (APCO) may require the manufacturer to conduct a Method 24 analysis.</p> <p>6.3.2 Alternative Test Methods: Other test methods demonstrated to provide results that are acceptable for purposes of determining compliance with Section 6.3.1, after review and approved in writing by the staffs of the District, the ARB and the U.S. EPA, may also be used. 6.3.3 Methacrylate Traffic Marking Coatings: Analysis of methacrylate multicomponent coatings used as traffic marking coatings shall be conducted according to a modification of U.S. EPA Method 24 (40 CFR 59, subpart D, Appendix A), incorporated by reference in Section 6.3.15. This method has not been approved for methacrylate multicomponent coatings used for other purposes than as traffic marking coatings or for other classes of multicomponent coatings.</p> <p>6.3.4 Flame Spread Index: The flame spread index of a fire-retardant coating shall be determined by ASTM Designation E 84-99, "Standard Test Method for Surface Burning Characteristics of Building Materials"(see Section 3, Fire-Retardant Coating).</p> <p>6.3.5 Fire Resistance Rating: The fire</p>	<p>6.3 Test Methods</p> <p>The test methods listed below shall be used to demonstrate compliance with this rule. Alternate equivalent test methods may be used provided the test methods have been approved by the APCO and EPA.</p> <p>6.3.1 Calculation of VOC Content: For the purpose of determining compliance with the VOC content limits in the Table of Standards 1 or the Table of Standards 2, the VOC content of a coating shall be determined as defined in Section 3.77, 3.78, or 3.79 as appropriate. The VOC content of a tint base shall be determined without colorant that is added after the tint base is manufactured. If the manufacturer does not recommend thinning, the VOC Content must be calculated for the product as supplied. If the manufacturer recommends thinning, the VOC Content must be calculated including the maximum amount of thinning solvent recommended by the manufacturer. If the coating is a multi-component product, the VOC content must be calculated as mixed or catalyzed. If the coating contains silanes, siloxanes, or other ingredients that generate ethanol or other VOC during the curing process, the VOC content must include the VOCs emitted during curing.</p> <p>6.3.2 VOC Content of Coatings: To determine the physical properties of a coating in order to perform the calculations in Section 3.77 and 3.79, the reference method for VOC content is EPA Method 24, except as provided in Sections 6.3.3 and 6.3.16. An alternative method to determine the VOC content of coatings is SCAQMD Method 304-91 (Revised February 1996). The exempt compounds content shall be determined by SCAQMD Method 303-91 (Revised 1993), BAAQMD Method 43 (Revised 1996), or BAAQMD Method 41 (Revised 1995), as applicable. To determine the VOC content of a coating, the manufacturer may use EPA Method 24, or an alternative method as provided in Section 6.3.3, formulation data, or any other reasonable means for predicting that the coating has been formulated as intended (e.g., quality assurance checks, recordkeeping). However, if there are any inconsistencies between the results of EPA Method 24 test and any other means for determining VOC content, the EPA Method 24</p>	<p>The non-SIP version includes all the requirements of the SIP version. Therefore, the non-SIP version of the rule is more stringent than the SIP version of the rule.</p>

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>resistance rating of a fire-resistive coating shall be determined by ASTM Designation E 119-98, "Standard Test Methods for Fire Tests of Building Construction Materials"(see Section 3, Fire-Resistive Coating).</p> <p>6.3.6 Gloss Determination: The gloss of a coating shall be determined by ASTM Designation D 523-89 (1999), "Standard Test Method for Specular Gloss"(see Section 3, Flat Coating, Nonflat Coating, Nonflat-High Gloss Coating and Quick-Dry Enamel).</p> <p>6.3.7 Metal Content of Coatings: The metallic content of a coating shall be determined by SCAQMD Method 318-95, Determination of Weight Percent Elemental Metal in Coatings by X-Ray Diffraction, SCAQMD Laboratory Methods of Analysis for Enforcement Samples (see Section 3, Metallic Pigmented Coating).</p> <p>6.3.8 Acid Content of Coatings: The acid content of a coating shall be determined by ASTM Designation D 1613-96, "Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer and related products"(see Section 3, Pre-Treatment Wash Primer).</p> <p>6.3.9 Drying Times: The set-to-touch, dry-hard, dry-to-touch and dry-to-recoat times of a coating shall be determined by ASTM Designation D 1640-95, "Standard Test Methods for Drying, Curing, or Film Formation of Organic Coatings at Room Temperature" (see Section 3, Quick-Dry Enamel and Quick-Dry Primer, Sealer and Undercoater) The tack-free time of a quickdry enamel coating shall be determined by the Mechanical Test Method of ASTM Designation D 1640-95.</p> <p>6.3.10 Surface Chalkiness: The chalkiness of a surface shall be determined using ASTM Designation D4214-98, "Standard Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films"(see Section 3, Specialty Primer, Sealer and Undercoater).</p> <p>6.3.11 Exempt Compounds—Siloxanes: Exempt compounds that are cyclic, branched, or linear completely methylated siloxanes, shall be analyzed as exempt compounds for compliance with Section 6 by BAAQMD Method 43, "Determination of Volatile Methylsiloxanes in Solvent-Based Coatings, Inks, and Related Materials," BAAQMD Manual of Procedures, Volume III, adopted 11/5/96 (see Section 3, Volatile Organic Compound, and Section 6.3.1).</p> <p>6.3.12 Exempt Compounds—</p>	<p>test results will govern, except when an alternative method is approved as specified in Section 6.3.3. The District Air Pollution Control Officer (APCO) may require the manufacturer to conduct an EPA Method 24 analysis.</p> <p>6.3.3 Alternative Test Methods: Other test methods demonstrated to provide results that are acceptable for purposes of determining compliance with Section 6.3.2.4, after review and approved in writing by the staffs of the District, ARB and EPA, may also be used.</p> <p>6.3.4 Methacrylate Traffic Marking Coatings: Analysis of methacrylate multicomponent coatings used as traffic marking coatings shall be conducted according to a modification of EPA Method 24 (40 CFR 59, subpart D, Appendix A). This method has not been approved for methacrylate multicomponent coatings used for other purposes than as traffic marking coatings or for other classes of multicomponent coatings.</p> <p>6.3.5 Flame Spread Index: The flame spread index of a fire-retardant coating shall be determined by ASTM E84-07, "Standard Test Method for Surface Burning Characteristics of Building Materials" (see Section 3.0, Fire-Retardant Coating).</p> <p>6.3.6 Fire Resistance Rating: The fire resistance rating of a fire-resistive coating shall be determined by ASTM E119-07, "Standard Test Methods for Fire Tests of Building Construction Materials" (see Section 3.0, Fire-Resistive Coating).</p> <p>6.3.7 Gloss Determination: The gloss of a coating shall be determined by ASTM D523-89 (1999), "Standard Test Method for Specular Gloss" (see Section 3.0, Flat Coating, Nonflat Coating, Nonflat-High Gloss Coating and Quick-Dry Enamel).</p> <p>6.3.8 Metal Content of Coatings: The metallic content of a coating shall be determined by SCAQMD Method 318-95, Determination of Weight Percent Elemental Metal in Coatings by X-Ray Diffraction, SCAQMD Laboratory Methods of Analysis for Enforcement Samples (see Section 3.0, Metallic Pigmented Coating, Aluminum Roof Coating and Faux Finish).</p> <p>6.3.9 Acid Content of Coatings: The acid content of a coating shall be determined by ASTM D1613-06, "Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer and related products" (see Section 3.0, Pre-Treatment Wash Primer).</p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>Parachlorobenzotrifluoride (PCBTF): The exempt compound parachlorobenzotrifluoride, shall be analyzed as an exempt compound for compliance with Section 6 by BAAQMD Method 41, "Determination of Volatile Organic Compounds in Solvent Based Coatings and Related Materials Containing Parachlorobenzotrifluoride," <i>BAAQMD Manual of Procedures</i>, Volume III, adopted 12/20/95 (see Section 3, Volatile Organic Compound, and Section 6.3.1).</p> <p>6.3.13 Exempt Compounds: The content of compounds under U.S. EPA Method 24 shall be analyzed by SCAQMD Method 303-91 (Revised 1996), "Determination of Exempt Compounds," <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i> (see Section 3, Volatile Organic Compound, and Section 6.3.1).</p> <p>6.3.14 VOC Content of Coatings: The VOC content of a coating shall be determined by U.S. EPA Method 24 as it exists in appendix A of 40 <i>Code of Federal Regulations</i> (CFR) part 60, "Determination of Volatile Matter Content, Water Content, Density, Volume Solids and Weight Solids of Surface Coatings" (see Section 6.3.1).</p> <p>6.3.15 Alternative VOC Content of Coatings: The VOC content of coatings may be analyzed either by U.S. EPA Method 24 or SCAQMD Method 304-91 (Revised 1996), "Determination of Volatile Organic Compounds (VOC) in Various Materials," <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i> (see Section 6.3.1).</p> <p>6.3.16 Methacrylate Traffic Marking Coatings: The VOC content of methacrylate multicomponent coatings used as traffic marking coatings shall be analyzed by the procedures in 40 CFR part 59, subpart D, appendix A, "Determination of Volatile Matter Content of Methacrylate Multicomponent Coatings Used as Traffic Marking Coatings" (September 11, 1998) (see Section 6.3.3).</p>	<p>6.3.10 Drying Times: The set-to-touch, dry-hard, dry-to-touch and dry-to-recoat times of a coating shall be determined by ASTM D1640-95, "Standard Test Methods for Drying, Curing, or Film Formation of Organic Coatings at Room Temperature" (see Section 3.0, Quick-Dry Enamel and Quick-Dry Primer, Sealer and Undercoater) The tack-free time of a quick-dry enamel coating shall be determined by the Mechanical Test Method of ASTM D1640-95. (Category deleted effective January 1, 2011.)</p> <p>6.3.11 Surface Chalkiness: The chalkiness of a surface shall be determined using ASTM D4214-98, "Standard Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films" (see Section 3, Specialty Primer, Sealer and Undercoater). (Category deleted effective January 1, 2011.)</p> <p>6.3.12 Exempt Compounds—Siloxanes: Exempt compounds that are cyclic, branched, or linear completely methylated siloxanes, shall be analyzed as exempt compounds for compliance with Section 6 by BAAQMD Method 43, "Determination of Volatile Methylsiloxanes in Solvent-Based Coatings, Inks, and Related Materials," <i>BAAQMD Manual of Procedures</i>, Volume III, adopted 11/6/96 (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</p> <p>6.3.13 Exempt Compounds—Parachlorobenzotrifluoride (PCBTF): The exempt compound parachlorobenzotrifluoride, shall be analyzed as an exempt compound for compliance with Section 6 by BAAQMD Method 41, "Determination of Volatile Organic Compounds in Solvent Based Coatings and Related Materials Containing Parachlorobenzotrifluoride," <i>BAAQMD Manual of Procedures</i>, Volume III, adopted 12/20/95 (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</p> <p>6.3.14 Exempt Compounds: The content of compounds under U.S. EPA Method 24 shall be analyzed by SCAQMD Method 303-91 (Revised 1993), "Determination of Exempt Compounds," <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i> (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).</p> <p>6.3.15 VOC Content of Coatings: The VOC content of a coating shall be determined by EPA Method 24 as it exists in appendix A of 40 <i>Code of</i></p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
		<p><i>Federal Regulations</i> (CFR) part 60, "Determination of Volatile Matter Content, Water Content, Density, Volume Solids and Weight Solids of Surface Coatings" (see Section 6.3.2).</p> <p>6.3.16 Alternative VOC Content of Coatings: The VOC content of coatings may be analyzed either by U.S. EPA Method 24 or SCAQMD Method 304-91 (Revised 1996), "Determination of Volatile Organic Compounds (VOC) in Various Materials," <i>SCAQMD Laboratory Methods of Analysis for Enforcement Samples</i>.</p> <p>6.3.17 Methacrylate Traffic Marking Coatings: The VOC content of methacrylate multicomponent coatings used as traffic marking coatings shall be analyzed by the procedures in 40 CFR part 59, subpart D, appendix A, "Determination of Volatile Matter Content of Methacrylate Multicomponent Coatings Used as Traffic Marking Coatings" (September 11, 1998).</p> <p>6.3.18 Hydrostatic Pressure for Basement Specialty Coatings: The hydrostatic pressure resistance for basement specialty coatings shall be analyzed using ASTM D7088-04, "Standard Practice for Resistance to Hydrostatic Pressure for Coatings Used in Below Grade Applications Applied to Masonry".</p> <p>6.3.19 Tub and Tile Refinish Coating Adhesion: The adhesion of tub and tile coating shall be determined by ASTM D4585-99, "Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation" and ASTM D3359-02, "Standard Test Methods for Measuring Adhesion by Tape Test".</p> <p>6.3.20 Tub and Tile Refinish Coating Hardness: The hardness of tub and tile refinish coating shall be determined by ASTM D3363-05, "Standard Test Method for Film Hardness by Pencil Test".</p> <p>6.3.21 Tub and Tile Refinish Coating Abrasion Resistance: Abrasion resistance of tub and tile refinish coating shall be analyzed by ASTM D4060-07, "Standard Test Methods for Abrasion Resistance of Organic Coatings by the Taber Abraser".</p> <p>6.3.22 Tub and Tile Refinish Coating Water Resistance: Water resistance of tub and tile refinish coatings shall be determined by ASTM D4585-99, "Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation" and ASTM D714-02e1, "Standard Test Method</p>	

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
		<p>for Evaluating Degree of Blistering of Paints".</p> <p>6.3.23 Waterproofing Membrane: Waterproofing membrane shall be tested by ASTM C835-06, "Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course".</p> <p>6.3.24 Mold and Mildew Growth for Basement Specialty Coatings: Mold and mildew growth resistance for basement specialty coatings shall be determined by ASTM D3273-00, "Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber" and ASTM D3274-95, "Standard Test Method for Evaluating Degree of Surface Disfigurement of Paint Films by Microbial (Fungal or Algal) Growth or Soil and Dirt Accumulation".</p> <p>6.3.25 Reactive Penetrating Sealer Water Repellency: Reactive penetrating sealer water repellency shall be analyzed by ASTM C67-07, "Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile"; or ASTM C97-02, "Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone"; or ASTM C140-06, "Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units".</p> <p>6.3.26 Reactive Penetrating Sealer Water Vapor Transmission: Reactive penetrating sealer water vapor transmission shall be analyzed ASTM E96/E96M-05, "Standard Test Method for Water Vapor Transmission of Materials".</p> <p>6.3.27 Reactive Penetrating Sealer - Chloride Screening Applications: Reactive penetrating sealers shall be analyzed by National Cooperative Highway Research Report 244 (1981), "Concrete Sealers for the Protection of Bridge Structures".</p> <p>6.3.28 Stone Consolidants: Stone consolidants shall be tested using ASTM E2167-01, "Standard Guide for Selection and Use of Stone Consolidants".</p>	
7.0 Compliance Schedule	Persons subject to this rule shall be in compliance with this rule by October 31, 2001.	Persons subject to this rule shall be in compliance with this rule by the dates specified within the rule.	No change in the requirements, therefore, non-SIP version of rule is as stringent as SIP version.
8.0 Averaging Compliance Option	8.1 On or after January 1, 2003, in lieu of compliance with the specified limits in the Table of Standards for floor coatings; industrial maintenance coatings; primers, sealers, and undercoaters; quick-dry primers, sealers, and undercoaters; quick-dry enamels; roof coatings; rust		No change in the requirements, therefore, non-SIP version of rule is as stringent as SIP version.

Requirement Category	SIP Version of Rule 4601 (10/31/01)	Non-SIP Version of Rule 4601 (12/17/09)	Conclusion
	<p>preventative coatings; stains; waterproofing sealers, as well as flats and non-flats (excluding recycled coatings), manufacturers may average designated coatings such that their actual cumulative emissions from the averaged coatings are less than or equal to the cumulative emissions that would have been allowed under those limits over a compliance period not to exceed one year. Such manufacturers must also comply with the averaging provisions contained in this Section, as well as maintain and make available for inspection records for at least three years after the end of the compliance period. This Section shall cease to be effective on January 1, 2005, after which averaging will no longer be allowed.</p> <p>Per Section 8.1, averaging is no longer applicable. Therefore, Section 8.2 through 8.14 are not listed.</p>		

District Rule 4601 was amended (12/17/2009). As analyzed, each amended section of the non-SIP version of the rule is at least as stringent as, or more stringent than the corresponding section of the SIP version of the rule. Therefore, it is concluded that overall the non-SIP version of the rule is more stringent than the SIP version of the rule.