



**OCT 19 2011**

Julia Bonardi  
Gallo Glass Company  
PO Box 1230  
Modesto, CA 95353

**Re: Notice of Preliminary Decision - Title V Permit Renewal  
District Facility # N-1662  
Project # N-1070166**

Dear Ms. Bonardi.

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Gallo Glass Company for its glass manufacturing operation at 605 South Santa Cruz in Modesto, California

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 30-day comment period which begins on the date of publication of the public notice.

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

Sincerely,

David Warner  
Director of Permit Services

**Attachments**

C: Mark Schonhoff, Permit Services Engineer

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

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**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



**OCT 19 2011**

Gerardo C. Rios, Chief  
Permits Office (AIR-3)  
U.S. EPA - Region IX  
75 Hawthorne St.  
San Francisco, CA 94105

**Re: Notice of Preliminary Decision – Title V Permit Renewal  
District Facility # N-1662  
Project # N-1070166**

Dear Mr. Rios:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Gallo Glass Company for its glass manufacturing operation at 605 South Santa Cruz in Modesto, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 45-day comment period which begins on the date of publication of the public notice.

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

Sincerely,

David Warner  
Director of Permit Services

**Attachments**

C: Mark Schonhoff, Permit Services Engineer

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Executive Director/Air Pollution Control Officer

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**OCT 19 2011**

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

**Re: Notice of Preliminary Decision - Title V Permit Renewal  
District Facility # N-1662  
Project # N-1070166**

Dear Mr. Tollstrup:

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Gallo Glass Company for its glass manufacturing operation at 605 South Santa Cruz in Modesto, California.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. Please submit your written comments on this project within the 30-day comment period which begins on the date of publication of the public notice.

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

Sincerely,

David Warner  
Director of Permit Services

**Attachments**

C: Mark Schonhoff, Permit Services Engineer

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

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Tel 661 392 5500 FAX 661 392 5585

Modesto Bee

**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 Gallo Glass Company for its glass manufacturing operation at 605 South Santa Cruz in Modesto, California.

The District's analysis of the legal and factual basis for this proposed action, project #N-1070166, is available for public inspection at [http://www.valleyair.org/notices/public\\_notices\\_idx.htm](http://www.valleyair.org/notices/public_notices_idx.htm) and the District office at the address below. 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 by the public, the District will hold a public hearing regarding issuance of this renewed permit. For additional information, please contact Mr. Rupi Gill, Permit Services Manager, at (209) 557-6400. Written comments on the proposed renewed permit must be submitted within 30 days of the publication date of this notice to DAVID WARNER, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 4800 Enterprise Way, MODESTO, CALIFORNIA 95356.

# **San Joaquin Valley Air Pollution Control District**

## **Proposed Title V Permit Renewal Evaluation Gallo Glass Company N-1662**

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**TITLE V PERMIT RENEWAL EVALUATION  
GLASS MANUFACTURING FACILITY**

Engineer: Mark Schonhoff  
Date: October 18, 2011

Facility Number: N-1662

Facility Name: Gallo Glass Company

Mailing Address: PO Box 1230  
Modesto, CA 95353

Contact Name: Julia Bonardi  
Telephone: (209) 341-4298  
(209) 262-7800

Contact Name: John Neufeld  
Telephone: (209) 341-4532

Responsible Official: Joseph Majewski

Project Number: N-1070166  
Deemed Complete: March 26, 2007

**I. PROPOSAL**

The Title V permit for Gallo Glass Company was last renewed on July 30, 2003. As required by District Rule 2520, the applicant has applied to renew the permit. The existing Title V permit shall be reviewed and modified to reflect all applicable District and federal rules updated, removed, or added since the most recent renewal.

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

The natural gas fired glass melting furnaces are currently operating under Permits to Operate (PTO's) N-1662-1-12, N-1662-2-13, N-1662-3-13 and N-1662-4-13. However, the District has placed draft Authorities to Construct (ATCs) N-1662-1-13, N-1662-2-14, N-1662-3-14 and N-1662-4-14 into public notice. The purpose of these ATC's is to modify the furnace permits to reflect compliance with the most current version of District Rule 4354 (Glass Melting Furnaces). These ATC's will be implemented prior to the finalization of this permit renewal project, therefore, the ATC's will be referred to as the previous

permits in this document. PTO's N-1662-1-12, N-1662-2-13, N-1662-3-13 and N-1662-4-13, as well as the remainder of the previous PTO's, are in Appendix B of this document. Draft ATC's N-1662-1-13, N-1662-2-14, N-1662-3-14 and N-1662-4-14 are in Appendix C of this document.

## **II. FACILITY LOCATION**

605 S. Santa Cruz  
Modesto, CA

## **III. POSTMODIFICATION EQUIPMENT LISTING**

### **N-1662-1-10**

FURNACE #1 WITH 10 MAXON GAS/OXYGEN BURNERS AND ASSOCIATED EQUIPMENT (75 MMBTU/HR MAX HEAT CAPACITY). THIS FURNACE IS DUCTED THROUGH A STACK COMMON TO PERMIT UNITS N-1662-1, N-1662-2, N-1662-3 AND N-1662-4. THE FURNACES ARE SERVED BY A SHARED ELECTROSTATIC PRECIPITATOR AND SOX SCRUBBER.

### **N-1662-2-11**

GLASS FURNACE #2 WITH 10 MAXON GAS/OXYGEN BURNERS AND ASSOCIATED FORMING EQUIPMENT (75 MMBTU/HR MAX HEAT CAPACITY). THIS FURNACE IS DUCTED THROUGH A STACK COMMON TO PERMIT UNITS N-1662-1, N-1662-2, N-1662-3 AND N-1662-4. THE FURNACES ARE SERVED BY A SHARED ELECTROSTATIC PRECIPITATOR AND SOX SCRUBBER.

### **N-1662-3-11**

GLASS FURNACE #3 WITH 10 MAXON GAS/OXYGEN BURNERS AND ASSOCIATED FORMING EQUIPMENT (75 MMBTU/HR MAX HEAT CAPACITY). THIS FURNACE IS DUCTED THROUGH A STACK COMMON TO PERMIT UNITS N-1662-1, N-1662-2, N-1662-3 AND N-1662-4. THE FURNACES ARE SERVED BY A SHARED ELECTROSTATIC PRECIPITATOR AND SOX SCRUBBER.

### **N-1662-4-12**

GLASS FURNACE #4 WITH 12 MAXON GAS/OXYGEN BURNERS AND ASSOCIATED FORMING EQUIPMENT (90 MMBTU/HR MAX HEAT CAPACITY). THIS FURNACE IS DUCTED THROUGH A STACK COMMON TO PERMIT UNITS N-1662-1, N-1662-2, N-1662-3 AND N-1662-4. THE FURNACES ARE SERVED BY A SHARED ELECTROSTATIC PRECIPITATOR AND SOX SCRUBBER.

**N-1662-5-3**

BATCH PLANT #1 AND MANUFACTURING EQUIPMENT

**N-1662-6-6**

CULLET PROCESSING OPERATION SERVED BY 1 HAMMER KING MODEL 1500 CRUSHER, 1 REMCO GLASS MAX CRUSHER, 4 MOGENSEN MODEL 205X SIZING SCREENS, 9 CONVEYORS, 1 ELEVATOR, 1 CULLET STOCKPILE, 2 HOMAN & LAWRENCE STORAGE SILOS, 1 CYCLONE AND 3 BAGHOUSES

**N-1662-7-3**

GLASS MOLD PLANT AND MANUFACTURING EQUIPMENT

**N-1662-8-7**

ELECTRIC GLASS MELTING FURNACE (FURNACE #5) AND A RAW MATERIAL HANDLING AND MIXING SYSTEM. THE RAW MATERIAL HANDLING AND MIXING SYSTEM CONSISTS OF WEIGHED BATCH CONVEYORS 1, 2 AND 3 SERVED BY A FLEX-KLEEN 100BVTS-25111BAGHOUSE (DC-50), A WEIGHED BATCH ELEVATOR SERVED BY A FLEX-KLEEN 100BVTS-25111BAGHOUSE (DC-50) AND A FLEXKLEEN 58BVBS-1611G BAGHOUSE (DC-51), A CHECK SCALE SERVED BY A FLEXKLEEN 58BVBS-1611G BAGHOUSE (DC-51), A 3 CUBIC YARD MIXER, A BAD BATCH SURGE HOPPER, A BAD BATCH STORAGE BIN AND A MIXED BATCH SURGE HOPPER ALL SERVED BY A FLEX-KLEEN 58BVBS-1611G BAGHOUSE (DC- 52), A MIXED BATCH ELEVATOR AND A MIXED BATCH TRANSFER CONVEYOR SERVED BY A FLEX-KLEEN 58BVBS09111G BAGHOUSE (DC-53), FURNACE STORAGE BIN 8-E SERVED BY A FLEX-KLEEN 58BVBS-9111G BAGHOUSE (DC-8E), FURNACE STORAGE BIN 8-W SERVED BY A FLEX-KLEEN 58BVBS-9111G BAGHOUSE (DC-8W), ELEVATOR AND A CULLET STORAGE BIN SERVED BY A M1KROPUL 581-8-20 BAGHOUSE (DC-9), AN ENCLOSED SURGE BIN, A BATCH CHARGER, AND A FURNACE CHARGE CONVEYOR. THE FURNACE ALSO INCLUDES SIXTEEN 2.85 MMBTU/HR NATURAL GAS FIRED EMERGENCY BURNERS.

**N-1662-10-3**

971.1 BHP CATERPILLAR MODEL D349TTA-SCA SERIAL #61P485 TURBOCHARGED AND AFTERCOOLED DIESEL FIRED EMERGENCY IC ENGINE POWERING A 724 KW ELECTRICAL GENERATOR

**N-1662-11-3**

971.1 BHP CATERPILLAR MODEL D349TTA-SCA SERIAL #61P486  
TURBOCHARGED AND AFTERCOOLED DIESEL FIRED EMERGENCY IC  
ENGINE POWERING A 724 KW ELECTRICAL GENERATOR

**N-1662-12-3**

971.1 BHP CATERPILLAR MODEL D349TTA-SCA SERIAL #61P549  
TURBOCHARGED AND AFTERCOOLED DIESEL FIRED EMERGENCY IC  
ENGINE POWERING A 724 KW ELECTRICAL GENERATOR

**N-1662-14-4**

BATCH PLANT #2 SERVING GLASS MELTING FURNACES 4 AND 5  
(PERMITS N- 1662-4 AND N-1662-8 RESPECTIVELY) AND THE CULLET  
PROCESSING OPERATION (N-1662-6). THE PLANT CONSISTS OF 7  
RAW MATERIAL RECEIVING PITS, 7 UNDERGROUND RAW MATERIAL  
STORAGE SILOS AND VARIOUS CONVEYORS AND ELEVATORS.  
EXCEPT FOR THE RECEIVING PITS, THE OPERATION IS SERVED BY A  
MIKROPUL 64S820 DUST COLLECTOR (DC-1), A M1KROPUL 130-8-20  
DUST COLLECTOR (DC-3), A MIKROPUL 144S-820C DUST COLLECTOR  
(DC-6), A MIKROPUL SQ100-101 DUST COLLECTOR (DC-10) AND A  
MIKROPUL 144S-820C (DC-39) DUST COLLECTOR. THE RECEIVING  
PITS UTILIZE CHOKE FEEDING

**N-1662-15-2**

17.2 MMBTU/HR HEX MODEL VFTU-342-41860 DRIOX VAPORIZER  
HEATER WITH TWO (2) COEN MODEL SDAF-10 LOW-NOX BURNERS  
(RATED AT 8.6 MMBTU/HR EACH)

#### **IV. GENERAL PERMIT TEMPLATE USAGE**

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

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

The applicant has requested to utilize template Number SJV-UM-0-3, Facility Wide Umbrella. Based on the information submitted in the Template Qualification Form, the applicant qualifies for the use of this template.

#### **V. SCOPE OF EPA AND PUBLIC REVIEW**

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

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

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

Conditions 1 through 40 of the requirements for permit N-1662-0-3.

## VI. FEDERALLY ENFORCEABLE REQUIREMENTS

### A. RULES UPDATED

District Rule 2020, Exemptions

(amended March 21, 2002 ⇒ amended August 18, 2011)

District Rule 2201, New and Modified Stationary Source Review Rule

(amended December 19, 2002 ⇒ amended April 21, 2011)

District Rule 4101, Visible Emissions (amended February 17, 2005)

(amended November 15, 2001 ⇒ amended February 17, 2005)

District Rule 4354, Glass Melting Furnaces

(amended February 21, 2002 ⇒ amended May 19, 2011)

District Rule 4601, Architectural Coatings

(amended October 31, 2001 ⇒ amended December 17, 2009)

District Rule 4701, Internal Combustion Engines – Phase I

(amended September 19, 2002 ⇒ amended August 21, 2003)

District Rule 8011, General Requirements

(adopted November 15, 2001 ⇒ amended August 19, 2004)

District Rule 8021, Construction, Demolition, Excavation, Extraction and

other Earth Moving 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 Track-out

(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 15, 2004)

40 CFR Part 61 Subpart M, National Emission Standard for Asbestos  
(last amended June 20, 2004)

40 CFR Part 82 Subparts B and F, Stratospheric Ozone  
(subpart B last amended August 11, 2011, subpart F last amended April  
13, 2005)

## **B. RULES REMOVED**

40 CFR Part 60 Subpart JJJJ, Standards of Performance for Stationary  
Spark Ignition Internal Combustion Engines

Note: The only permitted spark ignition unit was removed and its permit  
cancelled. This rule no longer applies to the facility.

## **C. RULES ADDED**

District Rule 4305, Boilers, Steam Generators and Process Heaters –  
Phase 2 (amended August 21, 2003)

District Rule 4306, Boilers, Steam Generators and Process Heaters –  
Phase 3 (amended October 16, 2008)

District Rule 4320, Advanced Emission Reduction Options for Boilers,  
Steam Generators and process heaters greater than 5.0 MMBtu/hr  
(adopted October 16, 2008)

District Rule 4702, Internal Combustion Engines – Phase 2  
(amended January 18, 2007) – SIP Approved Version

40 CFR Part 60 Subpart IIII, Standards of Performance for Stationary  
Compression Ignition Internal Combustion Engines (last amended June  
28, 2011)

40 CFR Part 63 Subpart ZZZZ, National Emission Standards for  
Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion  
Engines (last amended May 9, 2011)

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

#### **D. RULES NOT UPDATED**

District 1080, Stack Monitoring (amended December 17, 1992)

District 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 4201, Particulate Matter Concentration  
(amended December 17, 1992)

District Rule 4202, Particulate Matter Emission Rate  
(amended December 17, 1992)

District Rule 4801, Sulfur Compounds (amended November 18, 1992)

40 CFR Part 64, Compliance Assurance Monitoring (CAM)  
(last amended October 22, 1997)

40 CFR Part 82 Subparts B and F, Stratospheric Ozone  
(last amended May 10, 2010)

40 CFR Part 61 Subpart M, National Emission Standard for Asbestos  
(last amended February 12, 2011)

#### **VII. RULES NOT FEDERALLY ENFORCEABLE**

##### **A. RULES UPDATED**

None

## **B. RULES REMOVED**

None

## **C. RULES ADDED**

District Rule 4702, Internal Combustion Engines – Phase 2  
(amended August 18, 2011) – Not SIP Approved

40 CFR part 60 Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (last amended January 28, 2009)

17 CCR Section 93115, Airborne Toxic Control Measure for Stationary Compression Ignition Engines (amended May 19, 2011)

## **D. RULES NOT UPDATED**

District Rule 1070, Inspections (amended December 17, 1992)

District Rule 1160, Emission Statements (amended November 18, 1992)

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

## **VIII. Permit Requirements**

In this section, the Federally enforceable and non-Federally enforceable requirements for the rules that were updated or added will be discussed. Clarification of equipment descriptions and the correction of typographical errors that do not change the meaning of an equipment description or condition will be made but not discussed.

**District Rule 2020, Exemptions**  
**(amended March 21, 2002 ⇒ amended August 18, 2011)**

The changes to this rule do not affect any of the facility permits.

**District Rule 2201, New and Modified Stationary Source Review Rule**  
**(amended December 9, 2001 ⇒ April 12, 2011)**

Although this rule has changed since the initial Title V permit was issued, it does not apply to a permit unit until such time as it is modified as defined in the rule. Therefore, any new Rule 2201 requirements to which the facility may have been subject were applied at the time of the applicable permitting action.

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

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 (40 CFR Part 98) is not included in the definition of an applicable requirement within Title V (per 40 CFR 71.2). Therefore, there will be no further discussion of GHG in this evaluation.

**District Rule 4305, Boilers, Steam Generators and Process Heaters – Phase 2** (amended August 21, 2003)

**District Rule 4306, Boilers, Steam Generators and Process Heaters – Phase 3** (amended October 16, 2008)

**District Rule 4351, Boilers, Steam Generators and Process Heaters – Phase 1** (amended August 21, 2003)

Since these rules apply to the vaporizer (N-1662-15), they will be addressed together. A stringency comparison of these rules was conducted and is presented on the table below. In addition to the table items, the following changes will be made.

Conditions 14 and 15 of Title V permit N-1662-15-0 state that facilities N-1662 and N-2360 are the same stationary source. This vaporizer is the only unit that was permitted under facility ID N-2360 and it has been transferred to this facility (N-1662). Therefore, the conditions are no longer necessary and they will be removed at this time.

On June 23, 2004, the operator applied for an Authority to Construct permit to limit the fuel usage to less than 9 billion Btu/yr for Rule 4306 compliance (Project Number N-1041017, FID 2360). However, the ATC, as it was issued, included a condition limiting the fuel usage to 9 billion Btu or less. That error will be corrected at this time. To correct that error, condition 7 of the current Title V permit, which is as follows:

Maximum annual heat input of the unit shall not exceed 9 billion Btu per calendar year. [District Rules 2201, 4305, and 4306] Y

Will be replaced with the following condition (condition #6 of new Title V permit N-1662-15-2):

The annual fuel usage of this unit shall be less than 9 billion Btu per calendar year. [District Rules 2201, 4305, 4306 and 4351] Y

CITATION:	District Rule 4305	District Rule 4306	District Rule 4351
EMISSION LIMITS	None for units with fuel use limits of less than 30 billion Btu/yr	None for units with fuel use limits of less than 9 billion Btu/yr	None for units with fuel use limits of less than 9 billion Btu/yr
TUNING	Tune once per year [4305, 5.2 1]	<i>Tune unit twice per year</i> [4306, 5.2 1]	Tune once per year [4351, 5.3 1]
MONITORING	Monitor Operational Characteristics (no frequency requirement) [4305, 5.4 3]  Install and maintain a fuel usage meter [4305, 5.4 4]	<i>Monitor Operational characteristics on a monthly basis</i> [4306, 5.4 3]  Install and maintain a fuel usage meter [4306, 5.4 4]	Monitor and record the hhv and cumulative annual use of each fuel [4351, 6.1 1]
RECORDKEEPING	Monthly Fuel Usage Records [4305, 6.1.3]  Tune-up records [4305, 6.1 4]  Maintain records for five calendar years [4305, 6.1]	Monitor monthly fuel usage [4306, 6.1 2]  Tune-up records [4305, 6.1 3]  Maintain records for five calendar years [4306, 6.1]	<i>Record the hhv and cumulative annual use of each fuel for each unit.</i> [4351, 6.1 1]  Maintain records for five calendar years. [4351, 6.1]
REPORTING	None	None	None
SOURCE TESTING.	None for units not subject to an emission limit [4305, 6.3 1]	None for units not subject to an emission limit [4306, 6.3 1]	For units subject to section 5.3 (fuel usage less than 9 billion Btu/yr) no testing is required [4351, 6.3 1]
TEST METHODS	Fuel hhv shall be certified by third party fuel supplier or determined by ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels [4305, 6.2, 6.4 2]	Fuel hhv shall be certified by third party fuel supplier or determined by ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels [4306, 6.2, 6.4 1]	Fuel hhv shall be certified by third party fuel supplier or determined by: ASTM D 1826-88 or D 1945-81 in conjunction with ASTM D 3588-89 for gaseous fuels; [4351, 6.2]

The following table summarizes the changes that will be made as a result of the examination of Rules 4305, 4306 and 4351.

New Title V Permit #	Description	Title V Permit Condition Number		Change	Basis
		Current	New		
N-1662-15-2	Vaporizer	8	7	Remove reference to Rules 4305, 4306 and 4351	As shown on the above comparison table, none of these rules limits emissions from this unit.
		9	8	Add reference to Rules 4305 and 4351	Rules 4305, 4306 and 4351 all require tune-ups Rule 4306 has the most stringent frequency.
		6	5	Add reference to Rule 4351	Rule 4351 also requires fuel usage records
		N/A	12	Require monitoring and recording of the hhv value of the fuel	Rule 4351, 6.1.1
		N/A	12	Include the test required methods for hhv testing	Rule 4351, 6.2

**District Rule 4320, Advanced Emission Reduction Options for Boilers, Steam Generators and process heaters greater than 5.0 MMBtu/hr (adopted October 16, 2008)**

The unit was installed prior to January 1, 2009 and its fuel usage is limited to less than 9 billion Btu/yr. Per Table 1 (Category E) of section 5.2, such units do not become subject to this rule until January 1, 2014.

**40 CFR part 60 Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (last amended January 28, 2009)**

New Title V Permit #	Description	Title V Permit Condition Number		Change	Basis
		Current	New		
N-1662-15-2	Vaporizer	13	13	Add 40 CFR Part 60.48(g)(2) to the condition reference	40 CFR Part 60.48(g)(2) requires monthly fuel usage records

**District Rule 4354, Glass Melting Furnaces**  
**(amended February 21, 2002 ⇒ amended May 19, 2011)**

This rule applies to the gas fired furnaces operating under permits N-1662-1, N-1662-2, N-1662-3 and N-1662-4. Authorities to Construct N-1662-1-13, N-1662-2-14, N-1662-3-14 and N-1662-14, which will require compliance with this rule are pending issuance and will be issued after successful completion of the required 45 day EPA notice. No further updates are required to ensure compliance with the current version of this rule.

**17 CCR Section 93115, Airborne Toxic Control Measure for Stationary Compression ignition Engines** (amended May 19, 2011)

**District Rule 4701, Internal Combustion Engines – Phase I**  
**(amended September 19, 2002 ⇒ amended August 21, 2003)**

**District Rule 4702, Internal Combustion Engines – Phase 2**  
**(amended January 18, 2007) – SIP Approved**

**District Rule 4702, Internal Combustion Engines – Phase 2**  
**(amended August 18, 2011) – Not SIP Approved**

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

**40 CFR Part 63 Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**

Since all of these rules apply to the emergency stand-by compression engines (N1-662-10, N-1662-11 and N-1662-12), they will be addressed together.

**General Statement Regarding Permit Changes for CCR Section 93115**

Material received with the original In-house Permits to Operate application states that the PM emissions will be 0.081 lb/hr @ 971.1 bhp. That equates to an emission factor of 0.038 g/bhp-hr. To comply with the operating hour limitations of Title 17 CCR section 93115.6(b)(3), non-emergency operation must be limited to 30 hours per year.

The current Permit to Operate limits the fuel sulfur content to 0.05% by weight. Per section 17 CCR 93115.5(b), the fuel sulfur content limit is now 15 ppmw (0.0015% by weight).

## **General Statement Regarding Permit Changes for Rules 4701 and 4702**

The January 18, 2007 version of Rule 4702 exempted subject units from Rule 4701, however, the current version of the rule (August 18, 2011) does not include the Rule 4701 exemption. As they apply to the emergency standby engines currently under consideration, both versions of Rule 4702 are otherwise identical.

The January 18, 2007 version of Rule 4702 is SIP approved, but the August 18, 2011 version is not. Therefore, any conditions necessary solely for Rule 4701 compliance will not be identified as federally enforceable because the SIP approved version of Rule 4702 exempts such units from Rule 4701.

However, in the event that a condition is attributable to both Rule 4701 and the SIP approved version of Rule 4702, the condition will be labeled Federally Enforceable.

Section 4.2 of Rule 4701 states that only the administrative requirements of Sections 6.1, 6.2.2 and 6.2.3 apply to Standby Engines. Section 6.1 states that an Emission Control Plan (ECP) that specifies all actions to be taken to satisfy the requirements of section 5.1 shall be submitted in accordance with the compliance schedule of section 7.0. The units currently under consideration are Standby Engines and are not subject to section 5.1. Additionally, section 7.0 does not include an ECP submission deadline for Standby Engines. Therefore, the ECP requirements of this rule do not apply.

## **General Statement Regarding Permit Changes for 40 CFR Part 60 Subpart IIII**

These units are Emergency Stationary Internal Combustion Engines as defined in section 60.4219. Per section 60.4205(a), the units must comply with the emission requirements of Table 1 of this subpart. The following table lists the emission limits, the engine emissions (from the In-house Permit to Operate application material) and whether or not the units comply. The engines and their emissions are identical, therefore, the following table applies to all 3 units. The other requirements will be specified in the permit change table below.

Pollutant	Emission Factors (g/bhp-hr)		Compliant
	Table 1 Limits	Engine Emissions	
NOx	6.9	5.03	Yes
CO	11.4	1.85	Yes
VOC	1.0	0.11	Yes
PM	0.4	0.038	Yes

**General Statement Regarding 40 CFR Part 63 Subpart ZZZZ**

The units are rated at more than 500 bhp and were installed in 1972. Therefore, per sections 63.6590(a)(1)(i) and 63.6590(a)(1)(iii) the engines are Existing Stationary Reciprocating Internal Combustion Engines (RICE) regardless of whether they are located at a major or area source of HAPs. The units are also Emergency Stationary RICE as defined in section 63.6675. Per section 63.6590(b)(3), such units are not subject to this subpart.

**Permit Changes**

The current Title V permit conditions are identical and the new Title V permit conditions will be identical also. All conditions will be replaced as summarized on the following table.

New Title V Permit #	Description	Title V Permit Condition Number		Change	Basis
		Current	New		
N-1662-10-3 N-1662-11-3 N-1662-12-3	971.1 BHP diesel fired emergency generator	N/A	3	Require a non-resettable elapsed time meter	Subpart IIII, Section 60.4209(a) 4701, Section 6.2.1.1 4702, Section 4.2
		6	4	Require CARB certified with a sulfur content of no more than 0.0015% by weight	93115.5(b) Subpart IIII, Section 60 4207(b)
		N/A	6	Require units to be properly operated and maintained as recommended by the engine manufacturer or control system supplier	4702, Section 5.9.2
		N/A	7	Require monitoring of operational characteristics as recommended by the engine manufacturer or emission control system supplier	4702, Section 5.9.3
		3	8	Limit non-emergency operation to 30 hours per year	93115.6(b)(3) (PM = 0.038 g/bhp-hr) 4701, Section 4.2.1 4702, Section 4.2
		N/A	9,10	Define emergency situation and restrict generating scenarios	4701, Section 3.22 4702, Section 3 15 93115.4(a)(29)
		4	11, 12, 13	Update record keeping requirements	4701, 4 2, 6.2 2, 6.2.3 4702, 4.2, 6.2 3

**40 CFR Part 63 Subpart SSSSSS, National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources (last amended December 26, 2007)**

This subpart applies only to area sources of HAP emissions. It is not known at this time whether the facility is a major or area source of HAP emissions, therefore, the subject permits will be modified as shown on the following table.

New Title V Permit #	Description	Title V Permit Condition Number		Change	Basis
		Current	New		
N-1662-1-10	Glass Melting Furnace #1	N/A	34	Require compliance with 40 CFR Part 63 Subpart SSSSSS if it is applicable	40 CFR Part 63 Section 63.11448
N-1662-2-11	Glass Melting Furnace #2	N/A	34	Require compliance with 40 CFR Part 63 Subpart SSSSSS if it is applicable	40 CFR Part 63 Section 63 11448
N-1662-3-11	Glass Melting furnace #3	N/A	34	Require compliance with 40 CFR Part 63 Subpart SSSSSS if it is applicable	40 CFR Part 63 Section 63 11448
N-1662-4-12	Glass melting Furnace #4	N/A	35	Require compliance with 40 CFR Part 63 Subpart SSSSSS if it is applicable	40 CFR Part 63 Section 63.11448
N-1662-8-7	Glass Melting Furnace #5	N/A	10	Require compliance with 40 CFR Part 63 Subpart SSSSSS if it is applicable	40 CFR Part 63 Section 63.11448

**40 CFR Part 64, Compliance Assurance Monitoring (CAM)**

**General CAM Applicability:**

For a unit to be subject to CAM, all of the following must be true:

1. The facility must be a Major Source
2. The unit must have an emission limit for a Major Source Pollutant that is complied with utilizing a control device
3. The uncontrolled emissions of a Major Source pollutant from the unit must be in excess of the Major Source threshold.

**Units N-1662-1, N-1662-2, N-1662-3 and N-1662-4:**

**CAM Requirements:**

During the processing of the applications for Authorities to Construct N-1662-1-13, N-1662-2-14, N-1662-3-14 and N-1662-4-14 (Project Number N-1103820), it was determined that the furnaces are subject to CAM for PM10. The CAM requirements are summarized on the following table.

New Title V Permit Number	Current Title V Permit Condition Number	New Title V Permit Condition Number	Actions
N-1662-1-10	12, 52, 53, 54, 55, 56, 61	12, 53, 54, 55, 56, 57, 62	Retain Existing CAM Conditions for PM10
N-1662-2-11	12, 52, 53, 54, 55, 56, 61	12, 53, 54, 55, 56, 57, 62	
N-1662-3-11	12, 52, 53, 54, 55, 56, 61	12, 53, 54, 55, 56, 57, 62	
N-1662-4-12	13, 53, 54, 55, 56, 57, 62	13, 54, 55, 56, 57, 58, 63	

**N-1662-5:**

The permit does not include an emission limit. Therefore, CAM is not required.

**N-1662-6:**

The permit does not include an emission limit. Therefore, CAM is not required.

**N-1662-7:**

The permit does not include an emission limit. Therefore, CAM is not required.

**N-1662-8:**

This permit includes PM10 emission limits that are complied with utilizing baghouses. Therefore CAM may be required.

Emission Limit: 0.047 lb/ton of throughput (for the units served by baghouses)  
Throughput Limit: 459 tons/day  
Op. Schedule: 365 days/yr

**Quantity of Emission Units Served by the Baghouses:**

Description	Quantity
Weigh Batch Conveyors	3
Weighed Batch Elevator	1
Check Scale	1
3 Cubic Yard Mixer	1
Bad Batch Surge Hopper	1
Mixed Batch Surge Hopper	1
Mixed Batch Elevator	1
Mixed Batch Transfer Conveyor	1
Furnace Storage Bin 8-E	1
Furnace Storage bin 8-W	1
Elevator	1
Cullet Storage Bin	1
Total	14

$$PE_{PM10} \text{ (Controlled)} = (459 \text{ tons/day})(0.047 \text{ lb/ton}) \\ \times (365 \text{ days/yr}) / 14 \text{ units} = 562 \text{ lb/yr/unit}$$

$$PE_{PM10} \text{ (Uncontrolled)} = (562 \text{ lb/yr/unit}) / (1-0.99) = 56,200 \text{ lb/yr}$$

The uncontrolled emissions from each unit served by a baghouse are less than the Major Source threshold for PM10 (140,000 lb/yr). Therefore, CAM is not required for these units.

The permit unit also includes a furnace charge conveyor, a surge bin and a batch charger that are not equipped with emission control equipment. Therefore, CAM is not required for these units either.

**N-1662-10, N-1662-11 and N-1662-12:**

**NOx, CO, VOC and PM10:**

The permits do not include emission limits for these pollutants. Therefore CAM is not required.

**SOx:**

The permit includes a fuel sulfur content limit, which has the effect of limiting SOx emissions. Low-polluting fuels are specifically excluded from the Part 64.1 definition of Control Device. Therefore, CAM is not required for SOx.

**N-1662-14:**

This permit unit consists of material receiving, transfer and storage equipment, with all of the equipment except for the receiving pits being served by baghouses. Therefore, CAM must only be considered for the transfer equipment. The permitted emission factors are as follows:

Receiving and Storage: 0.1 lb/ton (per the application review document for project N-1074121, the portion of this emission factor attributable to the material transfer equipment is 0.066 lb/ton)

Material Transfer  
From storage: 0.066 lb/ton

Throughput Limit (Receiving and Storage): 2,275 tons/day  
Throughput Limit (Transfer From Storage): 1,224 tons/day

Operating Schedule: 365 days/yr

Quantity of Units Served by the Baghouses: 75

The permitted potential to emit from the equipment served by baghouses is:

$$PE_{PM10} \text{ (Controlled)} = (0.066 \text{ lb/ton})(2,275 \text{ tons/day} + 1,224 \text{ tons/day}) \\ \times (365 \text{ days/yr}) / 75 \text{ units} = 1,124 \text{ lb/yr/unit}$$

$$PE_{PM10} \text{ (Uncontrolled)} = (1,124 \text{ lb/yr/unit}) / (1-0.99) = 112,400 \text{ lb/yr/unit}$$

The uncontrolled emissions from each unit served by a baghouse is less than the Major Source threshold for PM10 (140,000 lb/yr). Therefore, CAM is not required for these units.

**N-1662-15:**

The emission limits are not complied with utilizing a control device as defined in section 64.1, therefore, CAM is not required.

## IX. Permit Shields

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 Permit to Operate is considered compliance with all applicable requirements upon which those conditions are based.

### A. Requirements addressed by Model General Permit Templates

#### 1. Model General Permit Template SJV-UM-03

The facility submitted a Title V General Permit Template Qualification form for the use of Facility-Wide Umbrella General Permit Template SJV-UM-0-3. Therefore, the permit shields granted in General Permit Template SJV-UM-03 are included as conditions 39 and 40 of permit N-1662-0-3.

### B. Requirements Not Addressed by Model General Permit Templates

- Permit units N-1662-5, N-1662-6 and N-1662-7 include permit shields for Stanislaus County Rules 404 and 405 and San Joaquin Valley Air Pollution Control District Rules 4201 and 4202. Those permit shields will remain. To properly enforce these shields, the permits will be modified as summarized on the following table:

New Title V Permit #	Description	Title V Permit Condition Number		Change	Basis
		Current	New		
N-1662-5-3	Batch Plant #1	5	5	None – retain current Rule 4201 limiting condition	Rule 4201, 3.0
		N/A	6	Include a condition limiting the PM10 emissions to the Rule 4202 limit	Rule 4202, 4.0
N-1662-6-6	Cullet Processing Operation	13	13	None – retain current Rule 4201 limiting condition	Rule 4201, 3.0
		15	15	None, retain current Rule 4202 limiting condition	Rule 4202, 4.0
N-1662-7-3	Glass Mold Plant	5	5	None – retain current Rules 4201 limiting condition	Rule 4201, 3.0
		N/A	6	Include a condition limiting the PM10 emissions to the Rule 4202 limit	Rule 4202, 4.0

2. Permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4 include permit shields for Stanislaus County rules 404, 405, 407 & 408, San Joaquin Valley Air Pollution Control District Rules 4201, 4202, 4301 and 4801, 40 CFR Part 60 Subpart CC and 40 CFR Part 61 Subpart N. Those permit shields will remain. To properly enforce these shields, the permits will be modified as summarized on the following table:

New Title V Permit #	Description	Title V Permit Condition Number		Change	Basis
		Current	New		
N-1662-1-10 N-1662-2-11 N-1662-3-11	Furnace #1	1	1	None – retain current Rule 4201 limiting condition	Rule 4201, 3.0
		14	14	None, retain current Rule 4202 limiting condition	Rule 4202, 4.0
		N/A	N/A	No conditions required to ensure the unit is not indirect fired	Rule 4301
		15	15	None – Retain current Rule 4801 limiting Condition	Rule 4801, 3.1
		N/A	N/A	No conditions required to ensure the units were installed and not modified after the applicability date of this rule	40 CFR Part 60, Subpart CC
		51	52	Retain condition prohibiting the addition of arsenic	40 CFR Part 61, Subpart N
N-1662-4-12	Furnace #4	1	1	None – retain current Rule 4201 limiting condition	Rule 4201, 3.0
		15	15	None, retain current Rule 4202 limiting condition	Rule 4202, 4.0
		N/A	N/A	No conditions required to ensure the unit is not indirect fired	Rule 4301
		16	16	None – Retain current Rule 4801 limiting Condition	Rule 4801, 3.1
		N/A	N/A	No conditions required to ensure the unit was installed and not modified after the applicability date of this rule	40 CFR Part 60, Subpart CC
		52	53	Retain condition prohibiting the addition of arsenic	40 CFR Part 61, Subpart N

3. Permit unit N-1662-10, N-1662-11 and N-1662-12 include permit shields for Stanislaus County Rules 404 and 407 and San Joaquin Valley Air Pollution Control District Rules 4201 and 4801. Those permit shields will remain.

New Title V Permit #	Description	Title V Permit Condition Number		Change	Basis
		Current	New		
N-1662-10-3 N-1662-11-3 N-1662-12-3	971 BHP Diesel Fired Emergency Engine	2	2	None – retain current Rule 4201 limiting condition	Rule 4201, 3.0
		5	5	None – retain current Rule 4801 limiting condition	Rule 4801, 3 1

**X. Permit Conditions**

See Appendix A – Draft Renewed Title V Operating Permit.

**XI. Appendices**

Appendix A: Draft Renewed Title V Operating Permit

Appendix B: Previous Title V Operating Permit

Appendix C: Draft ATC's N-1662-1-13, N-1662-2-14, N-1662-3-14 and N-1662-4-14

Appendix D: Detailed Facility List

**Appendix A**  
**Draft Renewed Title V Operating Permit**

# San Joaquin Valley Air Pollution Control District

FACILITY: N-1662-0-3

EXPIRATION DATE: 06/30/2007

## 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. {4365} Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. {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

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: GALLO GLASS COMPANY  
Location: 805 S SANTA CRUZ AVE, MODESTO, CA 95354  
N-1662-0-3 Oct 18 2011 2:41 PM - BCHOH004

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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
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

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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. On May 1, 1998, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, 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. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

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-1662-1-10

EXPIRATION DATE: 06/30/2007

## EQUIPMENT DESCRIPTION:

FURNACE #1 WITH 10 MAXON GAS/OXYGEN BURNERS AND ASSOCIATED EQUIPMENT (75 MMBTU/HR MAX HEAT CAPACITY). THIS FURNACE IS DUCTED THROUGH A STACK COMMON TO PERMIT UNITS N-1662-1, N-1662-2, N-1662-3 AND N-1662-4. THE FURNACES ARE SERVED BY A SHARED ELECTROSTATIC PRECIPITATOR AND SOX SCRUBBER.

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201 and Stanislaus County Rule 404] Federally Enforceable Through Title V Permit
2. The furnace shall be fired on natural gas and LPG only. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The furnace shall have continuous monitoring systems for NOx and SOx. The monitoring devices shall have continuous recording devices, and all records shall be kept on site. [District Rules 1080 and 4354, §5.9] Federally Enforceable Through Title V Permit
4. One continuous emissions monitoring (CEM) system may be used for monitoring oxy-fuel fired furnaces #1, #2, #3, and #4 provided all of the exhaust gases of each of these furnaces are ducted to a common stack, and monitored down stream of the common stack. The CEMS shall comply with the requirements of 40 Code of Federal Regulations (CFR) Part 51, 40 CFR Parts 60.7 and 60.13, 40 CFR Part 60 Appendix B (Performance Specifications) and Appendix F (Quality Assurance Procedures) and the applicable sections of Rule 1080 (Stack Monitoring). [District Rule 4354, 5.9 and 6.6.1] Federally Enforceable Through Title V Permit
5. 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
6. 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
7. During startups, the permittee shall comply with the requirements of section 5.5 of District Rule 4354. [District Rule 4354, §5.5] Federally Enforceable Through Title V Permit
8. The NOx control system shall be in operation as soon as technologically feasible during the startup period to minimize emissions. [District Rule 4354, §5.5.6] Federally Enforceable Through Title V Permit
9. The NOx control system shall be in operation whenever technologically feasible during shutdown to minimize emissions. [District Rule 4354, §5.6.2] Federally Enforceable Through Title V Permit
10. The NOx control system shall be in operation whenever technologically feasible during furnace idling to minimize emissions. [District Rule 4354, §5.7.1] 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 duration of shutdown, as measured from the time the furnace operations drop below the idle threshold specified in section 3.17 of District Rule 4354 to when all emissions from the furnace cease, shall not exceed 20 days. [District Rule 4354, §5.6.1] Federally Enforceable Through Title V Permit
12. The specific power of the electrostatic precipitator shall be at least 70 milliwatts/acfm except during the bypass episodes allowed by this permit. [District Rule 2520, §9.3.2] Federally Enforceable Through Title V Permit
13. The oxygen to fuel ratio shall be maintained within the range shown by the most recent source test to result in compliance with the CO and VOC limits of this permit. The acceptable range of the oxygen to fuel ratio shall be established during the initial source test and during each subsequent annual source test. [District Rule 4354] Federally Enforceable Through Title V Permit
14. 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] Federally Enforceable Through Title V Permit
15. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Stanislaus County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit
16. Source testing to demonstrate compliance with permit conditions and all rules and regulations for both natural gas and LPG shall be conducted at least once every calendar year. NOx and CO testing shall be performed using CARB Method 100. VOC testing shall be performed using EPA method 25A. PM10 testing shall be performed using EPA methods 201 and 202, EPA methods 201a and 202, or CARB methods 501 and 5. SOx testing shall be performed using EPA Method 8 and CARB Method 1-100. [District Rules 1081; 2520, §9.3.2; and 4354, 6.4 and 6.5] Federally Enforceable Through Title V Permit
17. Source testing 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. A source test shall be performed within 90 days after this furnace exceeds 100 hours of operation, on LPG, on an annual basis. [District Rule 1081] Federally Enforceable Through Title V Permit
18. Source testing shall be conducted by a CARB-certified source testing contractor. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to source testing. The results of each source test shall be submitted to the District within 60 days after the source test date. [District Rule 1081] Federally Enforceable Through Title V Permit
19. Source test conditions shall be representative of operations equal to or greater than 60 percent of the fuel use capacity for each furnace as stated in the Permit to Operate. [District Rule 4354, §6.4.2] Federally Enforceable Through Title V Permit
20. PM and PM10 source testing shall be conducted down stream of the electrostatic precipitator in the common stack. Furnaces #1, #2, #3, and #4 must operate simultaneously during source testing unless prior approval is obtained from the District. [District Rule 1081] Federally Enforceable Through Title V Permit
21. An annual Relative Accuracy Test Audit (RATA) shall be performed on the continuous monitoring system as outlined in 40 CFR Part 60 Appendix B. [District Rule 1080] Federally Enforceable Through Title V Permit
22. The owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F (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.

23. An exceedance of a NOx or SOx emission limit as indicated by the CEMS shall be reported by the operator to the APCO within 24 hours. The notification shall include 1) name and location of the facility, 2) identification of furnace(s) causing the exceedances, 3) calculation of actual NOx, CO and VOC emissions, and 4) corrective actions and schedules to complete the work. [District Rule 1080 and Stanislaus County Rule 108] Federally Enforceable Through Title V Permit
24. The operator shall notify the APCO no later than one hour after the detection of a breakdown of the CEMS. The operator shall inform the APCO of the intent to shut down the CEMS at least 24 hours prior to the event. [District Rule 1100] Federally Enforceable Through Title V Permit
25. The permittee shall submit a written report including copies of any Equipment Breakdown reports and/or pertinent variance decisions 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 (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and a negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
26. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
27. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
28. Cylinder gas audits (GGAs) of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy and total 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
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201, Stanislaus County Rule 404, District Rule 4202 and Stanislaus County Rule 405. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
30. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4801 and Stanislaus County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
31. The requirements of District Rule 4301 and Stanislaus County Rule 408 were determined to not apply to this unit because the unit does not utilize indirect heat transfer. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
32. The requirements of 40 CFR Part 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 has 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
33. The requirements of 40 CFR Part 61, Subpart N were determined to not apply to this unit because the unit does not use commercial arsenic. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
34. Any glass melting furnace located at an Area Source of hazardous air pollutants shall comply with 40 CFR Part 63 Subpart SSSSSS (National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources). [40 CFR Part 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
35. The amount of glass produced shall not exceed 520.1 tons during any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit

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

36. NOx emissions shall not exceed 1.5 pounds per ton of glass produced. This performance based limit is to enforce the NOx emission reductions granted by certificate number N-106-2. [District NSR Rule] Federally Enforceable Through Title V Permit
37. Except during furnace idling, shutdown, and startup, the aggregated NOx emissions shall not exceed 3.6 lb-NOx per ton of glass produced (based on a block 24-hour average). Aggregated NOx emissions are the NOx emissions as measured at the common stack divided by the sum of the daily amount of glass produced by permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4. [District Rule 4354, 9.0 and 9.6] Federally Enforceable Through Title V Permit
38. CO emissions shall not exceed 0.04 pounds per ton of glass produced. This performance based limit is to enforce the CO emission reductions granted by certificate number N-106-3. [District NSR Rule] Federally Enforceable Through Title V Permit
39. The VOC emissions shall not exceed 0.25 pounds per ton of glass produced. [District Rule 2201] Federally Enforceable Through Title V Permit
40. The combined SOx emissions from permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4, while producing glass with equal to or greater than 25% by weight color cullet, shall not exceed 0.99 lb/ton of glass produced (over a rolling 30 day average). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
41. The combined SOx emissions from permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4, while producing glass with less than 25% by weight mixed color cullet, shall not exceed 0.81 lb/ton of glass produced (over a rolling 30 day average). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
42. PM10 emissions, except during electrostatic precipitator bypass episodes, shall not exceed 0.49 pound per ton of glass produced. [District NSR Rules 2201 and 4354] Federally Enforceable Through Title V Permit
43. The PM10 emissions, during electrostatic precipitator bypass episodes, shall not exceed 0.71 pound per ton of glass produced. [District Rule 2201] Federally Enforceable Through Title V Permit
44. The electrostatic precipitator may be bypassed only for maintenance and repair. The duration of electrostatic precipitator bypass episodes shall not exceed 144 hours per calendar year. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
45. The PM10 emissions shall not exceed 22,936 pounds during the first calendar quarter, 23,190 pounds during the second calendar quarter, 23,445 pounds during the third calendar quarter and 23,445 pounds during the fourth calendar quarter. These limits are to enforce the PM10 emission reductions granted by certificate number N-161-4. [District Rule 2201] Federally Enforceable Through Title V Permit
46. During furnace idling, NOx emissions shall not exceed 2,080.4 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
47. During furnace idling, CO emissions shall not exceed 520.1 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
48. During furnace idling, VOC emissions shall not exceed 130.0 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
49. During furnace idling, SOx emissions shall not exceed 572.1 pounds in any one day when producing glass with equal to or greater than 25% by weight color cullet. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
50. During furnace idling, SOx emissions shall not exceed 468.1 pounds in any one day when producing glass with less than 25% by weight color cullet. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
51. During furnace idling, PM10 emissions shall not exceed 260.1 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
52. The facility shall not use commercial arsenic as a raw material in the production process. [40 CFR Part 61 Subpart N] 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.

53. Devices used to measure primary and secondary voltage and current shall be maintained in accordance with the manufacturer's specifications. [40 CFR Part 64] Federally Enforceable Through Title V Permit
54. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
55. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR Part 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
56. The permittee shall comply with the record keeping and reporting requirements of 40 CFR Part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
57. The specific power of the electrostatic precipitator shall be continuously monitored and recorded. [District Rules 2201 and 4354 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
58. A daily record of the hours of operation, the amount of glass pulled from the furnace (in tons), the NOx emissions (in lb/ton of glass pulled), the SOx emissions (in lb/ton of glass pulled), the weight of mixed color mix cullet used, the total amount of cullet used (by weight) and the ratio of the mixed color cullet weight to the total cullet weight (in percent). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
59. The oxygen to fuel ratio shall be continuously monitored and recorded. [District Rule 4354] Federally Enforceable Through Title V Permit
60. The permittee shall maintain daily records of the aggregated NOx emissions and the specific power (in milliwatts/acfm) of the electrostatic precipitator. [District Rules 2520, 9.3.2 and 4354, 9.6.1 and 9.7] Federally Enforceable Through Title V Permit
61. The permittee shall maintain the burner oxygen to fuel ratio records required by this permit. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
62. The permittee shall maintain the specific power records required by this permit. [District Rules 2201, 4354 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
63. A record of the PM10 emissions from this unit, in pounds per calendar quarter, shall be kept. [District Rule 2201] Federally Enforceable Through Title V Permit
64. A record of the cumulative annual electrostatic precipitator bypass duration, in hours, shall be kept. The record shall be updated at least weekly. [District Rule 1070] Federally Enforceable Through Title V Permit
65. 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.

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1662-2-11

EXPIRATION DATE: 06/30/2007

## EQUIPMENT DESCRIPTION:

GLASS FURNACE #2 WITH 10 MAXON GAS/OXYGEN BURNERS AND ASSOCIATED FORMING EQUIPMENT (75 MMBTU/HR MAX HEAT CAPACITY). THIS FURNACE IS DUCTED THROUGH A STACK COMMON TO PERMIT UNITS N-1662-1, N-1662-2, N-1662-3 AND N-1662-4. THE FURNACES ARE SERVED BY A SHARED ELECTROSTATIC PRECIPITATOR AND SOX SCRUBBER.

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201 and Stanislaus County Rule 404] Federally Enforceable Through Title V Permit
2. The furnace shall be fired on natural gas and LPG only. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The furnace shall have continuous monitoring systems for NOx and SOx. The monitoring devices shall have continuous recording devices, and all records shall be kept on site. [District Rules 1080 and 4354, §5.9] Federally Enforceable Through Title V Permit
4. One continuous emissions monitoring (CEM) system may be used for monitoring oxy-fuel fired furnaces #1, #2, #3, and #4 provided all of the exhaust gases of each of these furnaces are ducted to a common stack, and monitored down stream of the common stack. The CEMS shall comply with the requirements of 40 Code of Federal Regulations (CFR) Part 51, 40 CFR Parts 60.7 and 60.13, 40 CFR Part 60 Appendix B (Performance Specifications) and Appendix F (Quality Assurance Procedures) and the applicable sections of Rule 1080 (Stack Monitoring). [District Rule 4354, 5.9 and 6.6.1] Federally Enforceable Through Title V Permit
5. 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
6. 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
7. During startups, the permittee shall comply with the requirements of section 5.5 of District Rule 4354. [District Rule 4354, §5.5] Federally Enforceable Through Title V Permit
8. The NOx control system shall be in operation as soon as technologically feasible during the startup period to minimize emissions. [District Rule 4354, §5.5.6] Federally Enforceable Through Title V Permit
9. The NOx control system shall be in operation whenever technologically feasible during shutdown to minimize emissions. [District Rule 4354, §5.6.2] Federally Enforceable Through Title V Permit
10. The NOx control system shall be in operation whenever technologically feasible during furnace idling to minimize emissions. [District Rule 4354, §5.7.1] 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 duration of shutdown, as measured from the time the furnace operations drop below the idle threshold specified in section 3.17 of District Rule 4354 to when all emissions from the furnace cease, shall not exceed 20 days. [District Rule 4354, §5.6.1] Federally Enforceable Through Title V Permit
12. The specific power of the electrostatic precipitator shall be at least 70 milliwatts/acfm except during the bypass episodes allowed by this permit. [District Rule 2520, §9.3.2] Federally Enforceable Through Title V Permit
13. The oxygen to fuel ratio shall be maintained within the range shown by the most recent source test to result in compliance with the CO and VOC limits of this permit. The acceptable range of the oxygen to fuel ratio shall be established during the initial source test and during each subsequent annual source test. [District Rule 4354] Federally Enforceable Through Title V Permit
14. 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] Federally Enforceable Through Title V Permit
15. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Stanislaus County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit
16. Source testing to demonstrate compliance with permit conditions and all rules and regulations for both natural gas and LPG shall be conducted at least once every calendar year. NOx and CO testing shall be performed using CARB Method 100. VOC testing shall be performed using EPA method 25A. PM10 testing shall be performed using EPA methods 201 and 202, EPA methods 201a and 202, or CARB methods 501 and 5. SOx testing shall be performed using EPA Method 8 and CARB Method 1-100. [District Rules 1081; 2520, §9.3.2; and 4354, 6.4 and 6.5] Federally Enforceable Through Title V Permit
17. Source testing 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. A source test shall be performed within 90 days after this furnace exceeds 100 hours of operation, on LPG, on an annual basis. [District Rule 1081] Federally Enforceable Through Title V Permit
18. Source testing shall be conducted by a CARB-certified source testing contractor. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to source testing. The results of each source test shall be submitted to the District within 60 days after the source test date. [District Rule 1081] Federally Enforceable Through Title V Permit
19. Source test conditions shall be representative of operations equal to or greater than 60 percent of the fuel use capacity for each furnace as stated in the Permit to Operate. [District Rule 4354, §6.4.2] Federally Enforceable Through Title V Permit
20. PM and PM10 source testing shall be conducted down stream of the electrostatic precipitator in the common stack. Furnaces #1, #2, #3, and #4 must operate simultaneously during source testing unless prior approval is obtained from the District. [District Rule 1081] Federally Enforceable Through Title V Permit
21. An annual Relative Accuracy Test Audit (RATA) shall be performed on the continuous monitoring system as outlined in 40 CFR Part 60 Appendix B. [District Rule 1080] Federally Enforceable Through Title V Permit
22. The owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F (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

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

23. An exceedance of a NOx or SOx emission limit as indicated by the CEMS shall be reported by the operator to the APCO within 24 hours. The notification shall include 1) name and location of the facility, 2) identification of furnace(s) causing the exceedances, 3) calculation of actual NOx, CO and VOC emissions, and 4) corrective actions and schedules to complete the work. [District Rule 1080 and Stanislaus County Rule 108] Federally Enforceable Through Title V Permit
24. The operator shall notify the APCO no later than one hour after the detection of a breakdown of the CEMS. The operator shall inform the APCO of the intent to shut down the CEMS at least 24 hours prior to the event. [District Rule 1100] Federally Enforceable Through Title V Permit
25. The permittee shall submit a written report including copies of any Equipment Breakdown reports and/or pertinent variance decisions 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 (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and a negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
26. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
27. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
28. Cylinder gas audits (GGAs) of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy and total 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
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201, Stanislaus County Rule 404, District Rule 4202 and Stanislaus County Rule 405. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
30. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4801 and Stanislaus County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
31. The requirements of District Rule 4301 and Stanislaus County Rule 408 were determined to not apply to this unit because the unit does not utilize indirect heat transfer. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
32. The requirements of 40 CFR Part 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 has 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
33. The requirements of 40 CFR Part 61, Subpart N were determined to not apply to this unit because the unit does not use commercial arsenic. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
34. Any glass melting furnace located at an Area Source of hazardous air pollutants shall comply with 40 CFR Part 63 Subpart SSSSSS (National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources). [40 CFR Part 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
35. The amount of glass produced shall not exceed 352.1 tons during any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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

36. NOx emissions shall not exceed 2.77 pounds per ton of glass produced. This performance based limit is to enforce the NOx emission reductions granted by certificate number N-54-2. [District NSR Rule] Federally Enforceable Through Title V Permit
37. Except during furnace idling, shutdown, and startup, the aggregated NOx emissions shall not exceed 3.6 lb-NOx per ton of glass produced (based on a block 24-hour average). Aggregated NOx emission are the NOx emissions as measured at the common stack divided by the sum of the daily amount of glass produced by permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4. [District Rule 4354, 9.0 and 9.6] Federally Enforceable Through Title V Permit
38. CO emissions shall not exceed 1.0 pounds per ton of glass produced. [District NSR Rule] Federally Enforceable Through Title V Permit
39. The VOC emissions shall not exceed 0.25 pounds per ton of glass produced. [District Rule 2201] Federally Enforceable Through Title V Permit
40. The combined SOx emissions from permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4, while producing glass with equal to or greater than 25% by weight color cullet, shall not exceed 0.99 lb/ton of glass produced (over a rolling 30 day average). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
41. The combined SOx emissions from permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4, while producing glass with less than 25% by weight mixed color cullet, shall not exceed 0.81 lb/ton of glass produced (over a rolling 30 day average). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
42. PM10 emissions, except during electrostatic precipitator bypass episodes, shall not exceed 0.49 pound per ton of glass produced. [District NSR Rules 2201 and 4354] Federally Enforceable Through Title V Permit
43. The PM10 emissions, during electrostatic precipitator bypass episodes, shall not exceed 0.71 pound per ton of glass produced. [District Rule 2201] Federally Enforceable Through Title V Permit
44. The electrostatic precipitator may be bypassed only for maintenance and repair. The duration of electrostatic precipitator bypass episodes shall not exceed 144 hours per calendar year. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
45. The PM10 emissions shall not exceed 15,527 pounds during the first calendar quarter, 15,699 pounds during the second calendar quarter, 15,872 pounds during the third calendar quarter and 15,872 pounds during the fourth calendar quarter. These limits are to enforce the PM10 emission reductions granted by certificate number N-161-4. [District NSR Rule] Federally Enforceable Through Title V Permit
46. During furnace idling, NOx emissions shall not exceed 1,408.4 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
47. During furnace idling, CO emissions shall not exceed 352.1 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
48. During furnace idling, VOC emissions shall not exceed 88.0 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
49. During furnace idling, SOx emissions shall not exceed 387.3 pounds in any one day when producing glass with equal to or greater than 25% by weight color cullet. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
50. During furnace idling, SOx emissions shall not exceed 316.9 pounds in any one day when producing glass with less than 25% by weight color cullet. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
51. During furnace idling, PM10 emissions shall not exceed 176.1 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
52. The facility shall not use commercial arsenic as a raw material in the production process. [40 CFR Part 61 Subpart N] Federally Enforceable Through Title V Permit
53. Devices used to measure primary and secondary voltage and current shall be maintained in accordance with the manufacturer's specifications. [40 CFR Part 64] Federally Enforceable Through Title V Permit

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

54. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
55. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR Part 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
56. The permittee shall comply with the record keeping and reporting requirements of 40 CFR Part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
57. The specific power of the electrostatic precipitator shall be continuously monitored and recorded. [District Rules 2201 and 4354 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
58. A daily record of the hours of operation, the amount of glass pulled from the furnace (in tons), the NOx emissions (in lb/ton of glass pulled), the SOx emissions (in lb/ton of glass pulled), the weight of mixed color mix cullet used, the total amount of cullet used (by weight) and the ratio of the mixed color cullet weight to the total cullet weight (in percent). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
59. The oxygen to fuel ratio shall be continuously monitored and recorded. [District Rule 4354] Federally Enforceable Through Title V Permit
60. The permittee shall maintain daily records of the aggregated NOx emissions and the specific power (in milliwatts/acfm) of the electrostatic precipitator. [District Rules 2520, 9.3.2 and 4354, 9.6.1 and 9.7] Federally Enforceable Through Title V Permit
61. The permittee shall maintain the burner oxygen to fuel ratio records required by this permit. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
62. The permittee shall maintain the specific power records required by this permit. [District Rules 2201, 4354 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
63. A record of the PM10 emissions from this unit, in pounds per calendar quarter, shall be kept. [District Rule 2201] Federally Enforceable Through Title V Permit
64. A record of the cumulative annual electrostatic precipitator bypass duration, in hours, shall be kept. The record shall be updated at least weekly. [District Rule 1070] Federally Enforceable Through Title V Permit
65. 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.

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1662-3-11

EXPIRATION DATE: 06/30/2007

## EQUIPMENT DESCRIPTION:

GLASS FURNACE #3 WITH 10 MAXON GAS/OXYGEN BURNERS AND ASSOCIATED FORMING EQUIPMENT (75 MMBTU/HR MAX HEAT CAPACITY). THIS FURNACE IS DUCTED THROUGH A STACK COMMON TO PERMIT UNITS N-1662-1, N-1662-2, N-1662-3 AND N-1662-4. THE FURNACES ARE SERVED BY A SHARED ELECTROSTATIC PRECIPITATOR AND SOX SCRUBBER.

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201 and Stanislaus County Rule 404] Federally Enforceable Through Title V Permit
2. The furnace shall be fired on natural gas and LPG only. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The furnace shall have continuous monitoring systems for NO<sub>x</sub> and SO<sub>x</sub>. The monitoring devices shall have continuous recording devices, and all records shall be kept on site. [District Rules 1080 and 4354, §5.9] Federally Enforceable Through Title V Permit
4. One continuous emissions monitoring (CEM) system may be used for monitoring oxy-fuel fired furnaces #1, #2, #3, and #4 provided all of the exhaust gases of each of these furnaces are ducted to a common stack, and monitored down stream of the common stack. The CEMS shall comply with the requirements of 40 Code of Federal Regulations (CFR) Part 51, 40 CFR Parts 60.7 and 60.13, 40 CFR Part 60 Appendix B (Performance Specifications) and Appendix F (Quality Assurance Procedures) and the applicable sections of Rule 1080 (Stack Monitoring). [District Rule 4354, 5.9 and 6.6.1] Federally Enforceable Through Title V Permit
5. 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
6. 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<sub>x</sub>, CO, and O<sub>2</sub> 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
7. During startups, the permittee shall comply with the requirements of section 5.5 of District Rule 4354. [District Rule 4354, §5.5] Federally Enforceable Through Title V Permit
8. The NO<sub>x</sub> control system shall be in operation as soon as technologically feasible during the startup period to minimize emissions. [District Rule 4354, §5.5.6] Federally Enforceable Through Title V Permit
9. The NO<sub>x</sub> control system shall be in operation whenever technologically feasible during shutdown to minimize emissions. [District Rule 4354, §5.6.2] Federally Enforceable Through Title V Permit
10. The NO<sub>x</sub> control system shall be in operation whenever technologically feasible during furnace idling to minimize emissions. [District Rule 4354, §5.7.1] 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 duration of shutdown, as measured from the time the furnace operations drop below the idle threshold specified in section 3.17 of District Rule 4354 to when all emissions from the furnace cease, shall not exceed 20 days. [District Rule 4354, §5.6.1] Federally Enforceable Through Title V Permit
12. The specific power of the electrostatic precipitator shall be at least 70 milliwatts/acfm except during the bypass episodes allowed by this permit. [District Rule 2520, §9.3.2] Federally Enforceable Through Title V Permit
13. The oxygen to fuel ratio shall be maintained within the range shown by the most recent source test to result in compliance with the CO and VOC limits of this permit. The acceptable range of the oxygen to fuel ratio shall be established during the initial source test and during each subsequent annual source test. [District Rule 4354] Federally Enforceable Through Title V Permit
14. 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] Federally Enforceable Through Title V Permit
15. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Stanislaus County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit
16. Source testing to demonstrate compliance with permit conditions and all rules and regulations for both natural gas and LPG shall be conducted at least once every calendar year. NO<sub>x</sub> and CO testing shall be performed using CARB Method 100. VOC testing shall be performed using EPA method 25A. PM<sub>10</sub> testing shall be performed using EPA methods 201 and 202, EPA methods 201a and 202, or CARB methods 501 and 5. SO<sub>x</sub> testing shall be performed using EPA Method 8 and CARB Method 1-100. [District Rules 1081; 2520, §9.3.2; and 4354, 6.4 and 6.5] Federally Enforceable Through Title V Permit
17. Source testing 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. A source test shall be performed within 90 days after this furnace exceeds 100 hours of operation, on LPG, on an annual basis. [District Rule 1081] Federally Enforceable Through Title V Permit
18. Source testing shall be conducted by a CARB-certified source testing contractor. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to source testing. The results of each source test shall be submitted to the District within 60 days after the source test date. [District Rule 1081] Federally Enforceable Through Title V Permit
19. Source test conditions shall be representative of operations equal to or greater than 60 percent of the fuel use capacity for each furnace as stated in the Permit to Operate. [District Rule 4354, §6.4.2] Federally Enforceable Through Title V Permit
20. PM and PM<sub>10</sub> source testing shall be conducted down stream of the electrostatic precipitator in the common stack. Furnaces #1, #2, #3, and #4 must operate simultaneously during source testing unless prior approval is obtained from the District. [District Rule 1081] Federally Enforceable Through Title V Permit
21. An annual Relative Accuracy Test Audit (RATA) shall be performed on the continuous monitoring system as outlined in 40 CFR Part 60 Appendix B. [District Rule 1080] Federally Enforceable Through Title V Permit
22. The owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F (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.

23. An exceedance of a NO<sub>x</sub> or SO<sub>x</sub> emission limit as indicated by the CEMS shall be reported by the operator to the APCO within 24 hours. The notification shall include 1) name and location of the facility, 2) identification of furnace(s) causing the exceedances, 3) calculation of actual NO<sub>x</sub>, CO and VOC emissions, and 4) corrective actions and schedules to complete the work. [District Rule 1080 and Stanislaus County Rule 108] Federally Enforceable Through Title V Permit
24. The operator shall notify the APCO no later than one hour after the detection of a breakdown of the CEMS. The operator shall inform the APCO of the intent to shut down the CEMS at least 24 hours prior to the event. [District Rule 1100] Federally Enforceable Through Title V Permit
25. The permittee shall submit a written report including copies of any Equipment Breakdown reports and/or pertinent variance decisions 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 (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and a negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
26. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
27. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
28. Cylinder gas audits (GGAs) of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy and total 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
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201, Stanislaus County Rule 404, District Rule 4202 and Stanislaus County Rule 405. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
30. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4801 and Stanislaus County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
31. The requirements of District Rule 4301 and Stanislaus County Rule 408 were determined to not apply to this unit because the unit does not utilize indirect heat transfer. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
32. The requirements of 40 CFR Part 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 has 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
33. The requirements of 40 CFR Part 61, Subpart N were determined to not apply to this unit because the unit does not use commercial arsenic. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
34. Any glass melting furnace located at an Area Source of hazardous air pollutants shall comply with 40 CFR Part 63 Subpart SSSSSS (National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources). [40 CFR Part 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
35. The amount of glass produced shall not exceed 352.1 tons during any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit

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

36. NOx emissions shall not exceed 2.48 pounds per ton of glass produced. This performance based limit is to enforce the NOx emission reductions granted by certificate number N-56-2. [District NSR Rule] Federally Enforceable Through Title V Permit
37. Except during furnace idling, shutdown, and startup, the aggregated NOx emissions shall not exceed 3.6 lb-NOx per ton of glass produced (based on a block 24-hour average). Aggregated NOx emissions are the NOx emissions as measured at the common stack divided by the sum of the daily amount of glass produced by permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4. [District Rule 4354, 9.0 and 9.6] Federally Enforceable Through Title V Permit
38. CO emissions shall not exceed 0.01 pounds per ton of glass produced. This performance based limit is to enforce the CO emission reductions granted by certificate number N-106-3. [District NSR Rule] Federally Enforceable Through Title V Permit
39. The VOC emissions shall not exceed 0.25 pounds per ton of glass produced. [District Rule 2201] Federally Enforceable Through Title V Permit
40. The combined SOx emissions from permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4, while producing glass with equal to or greater than 25% by weight color cullet, shall not exceed 0.99 lb/ton of glass produced (over a rolling 30 day average). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
41. The combined SOx emissions from permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4, while producing glass with less than 25% by weight mixed color cullet, shall not exceed 0.81 lb/ton of glass produced (over a rolling 30 day average). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
42. PM10 emissions, except during electrostatic precipitator bypass episodes, shall not exceed 0.49 pound per ton of glass produced. [District NSR Rules 2201 and 4354] Federally Enforceable Through Title V Permit
43. The PM10 emissions, during electrostatic precipitator bypass episodes, shall not exceed 0.71 pound per ton of glass produced. [District Rule 2201] Federally Enforceable Through Title V Permit
44. The electrostatic precipitator may be bypassed only for maintenance and repair. The duration of electrostatic precipitator bypass episodes shall not exceed 144 hours per calendar year. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
45. The PM10 emissions shall not exceed 15,527 pounds during the first calendar quarter, 15,699 pounds during the second calendar quarter, 15,872 pounds during the third calendar quarter and 15,872 pounds during the fourth calendar quarter. These limits are to enforce the PM10 emission reductions granted by certificate number N-161-4. [District NSR Rule] Federally Enforceable Through Title V Permit
46. During furnace idling, NOx emissions shall not exceed 1,408.4 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
47. During furnace idling, CO emissions shall not exceed 352.1 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
48. During furnace idling, VOC emissions shall not exceed 88.0 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
49. During furnace idling, SOx emissions shall not exceed 387.3 pounds in any one day when producing glass with equal to or greater than 25% by weight color cullet. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
50. During furnace idling, SOx emissions shall not exceed 316.9 pounds in any one day when producing glass with less than 25% by weight color cullet. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
51. During furnace idling, PM10 emissions shall not exceed 176.1 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
52. The facility shall not use commercial arsenic as a raw material in the production process. [40 CFR Part 61 Subpart N] 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.

53. Devices used to measure primary and secondary voltage and current shall be maintained in accordance with the manufacturer's specifications. [40 CFR Part 64] Federally Enforceable Through Title V Permit
54. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
55. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR Part 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
56. The permittee shall comply with the record keeping and reporting requirements of 40 CFR Part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
57. The specific power of the electrostatic precipitator shall be continuously monitored and recorded. [District Rules 2201 and 4354 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
58. A daily record of the hours of operation, the amount of glass pulled from the furnace (in tons), the NOx emissions (in lb/ton of glass pulled), the SOx emissions (in lb/ton of glass pulled), the weight of mixed color mix cullet used, the total amount of cullet used (by weight) and the ratio of the mixed color cullet weight to the total cullet weight (in percent). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
59. The oxygen to fuel ratio shall be continuously monitored and recorded. [District Rule 4354] Federally Enforceable Through Title V Permit
60. The permittee shall maintain daily records of the aggregated NOx emissions and the specific power (in milliwatts/acfm) of the electrostatic precipitator. [District Rules 2520, 9.3.2 and 4354, 9.6.1 and 9.7] Federally Enforceable Through Title V Permit
61. The permittee shall maintain the burner oxygen to fuel ratio records required by this permit. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
62. The permittee shall maintain the specific power records required by this permit. [District Rules 2201, 4354 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
63. A record of the PM10 emissions from this unit, in pounds per calendar quarter, shall be kept. [District Rule 2201] Federally Enforceable Through Title V Permit
64. A record of the cumulative annual electrostatic precipitator bypass duration, in hours, shall be kept. The record shall be updated at least weekly. [District Rule 1070] Federally Enforceable Through Title V Permit
65. 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.

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1662-4-12

EXPIRATION DATE: 06/30/2007

## EQUIPMENT DESCRIPTION:

GLASS FURNACE #4 WITH 12 MAXON GAS/OXYGEN BURNERS AND ASSOCIATED FORMING EQUIPMENT (90 MMBTU/HR MAX HEAT CAPACITY). THIS FURNACE IS DUCTED THROUGH A STACK COMMON TO PERMIT UNITS N-1662-1, N-1662-2, N-1662-3 AND N-1662-4. THE FURNACES ARE SERVED BY A SHARED ELECTROSTATIC PRECIPITATOR AND SOX SCRUBBER.

## PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201 and Stanislaus County Rule 404] Federally Enforceable Through Title V Permit
2. The furnace shall be fired on natural gas and LPG only. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The furnace shall have continuous monitoring systems for NO<sub>x</sub> and SO<sub>x</sub>. The monitoring devices shall have continuous recording devices, and all records shall be kept on site. [District Rules 1080 and 4354, §5.9] Federally Enforceable Through Title V Permit
4. One continuous emissions monitoring (CEM) system may be used for monitoring oxy-fuel fired furnaces #1, #2, #3, and #4 provided all of the exhaust gases of each of these furnaces are ducted to a common stack, and monitored down stream of the common stack. The CEMS shall comply with the requirements of 40 Code of Federal Regulations (CFR) Part 51, 40 CFR Parts 60.7 and 60.13, 40 CFR Part 60 Appendix B (Performance Specifications) and Appendix F (Quality Assurance Procedures) and the applicable sections of Rule 1080 (Stack Monitoring). [District Rule 4354, 5.9 and 6.6.1] Federally Enforceable Through Title V Permit
5. 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
6. 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<sub>x</sub>, CO, and O<sub>2</sub> 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
7. During startups, the permittee shall comply with the requirements of section 5.5 of District Rule 4354. [District Rule 4354, §5.5] Federally Enforceable Through Title V Permit
8. The NO<sub>x</sub> control system shall be in operation as soon as technologically feasible during the startup period to minimize emissions. [District Rule 4354, §5.5.6] Federally Enforceable Through Title V Permit
9. The NO<sub>x</sub> control system shall be in operation whenever technologically feasible during shutdown to minimize emissions. [District Rule 4354, §5.6.2] Federally Enforceable Through Title V Permit
10. The NO<sub>x</sub> control system shall be in operation whenever technologically feasible during furnace idling to minimize emissions. [District Rule 4354, §5.7.1] 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 duration of shutdown, as measured from the time the furnace operations drop below the idle threshold specified in section 3.17 of District Rule 4354 to when all emissions from the furnace cease, shall not exceed 20 days. [District Rule 4354, §5.6.1] Federally Enforceable Through Title V Permit
12. The total startup time, as defined in section 3.22 of District Rule 4354 (Glass Melting Furnaces), shall not exceed 18 days. [District Rule 4354, §5.2.1] Federally Enforceable Through Title V Permit
13. The specific power of the electrostatic precipitator shall be at least 70 milliwatts/acfm except during the bypass episodes allowed by this permit. [District Rule 2520, §9.3.2] Federally Enforceable Through Title V Permit
14. The oxygen to fuel ratio shall be maintained within the range shown by the most recent source test to result in compliance with the CO and VOC limits of this permit. The acceptable range of the oxygen to fuel ratio shall be established during the initial source test and during each subsequent annual source test. [District Rule 4354]
15. 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] Federally Enforceable Through Title V Permit
16. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Stanislaus County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit
17. Source testing to demonstrate compliance with permit conditions and all rules and regulations for both natural gas and LPG shall be conducted at least once every calendar year. NOx and CO testing shall be performed using CARB Method 100. VOC testing shall be performed using EPA method 25A. PM10 testing shall be performed using EPA methods 201 and 202, EPA methods 201a and 202, or CARB methods 501 and 5. SOx testing shall be performed using EPA Method 8 and CARB Method 1-100. [District Rules 1081; 2520, §9.3.2; and 4354, 6.4 and 6.5] Federally Enforceable Through Title V Permit
18. Source testing 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. A source test shall be performed within 90 days after this furnace exceeds 100 hours of operation, on LPG, on an annual basis. [District Rule 1081] Federally Enforceable Through Title V Permit
19. Source testing shall be conducted by a CARB-certified source testing contractor. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to source testing. The results of each source test shall be submitted to the District within 60 days after the source test date. [District Rule 1081] Federally Enforceable Through Title V Permit
20. Source test conditions shall be representative of operations equal to or greater than 60 percent of the fuel use capacity for each furnace as stated in the Permit to Operate. [District Rule 4354, §6.4.2] Federally Enforceable Through Title V Permit
21. PM and PM10 source testing shall be conducted down stream of the electrostatic precipitator in the common stack. Furnaces #1, #2, #3, and #4 must operate simultaneously during source testing unless prior approval is obtained from the District. [District Rule 1081] Federally Enforceable Through Title V Permit
22. An annual Relative Accuracy Test Audit (RATA) shall be performed on the continuous monitoring system as outlined in 40 CFR Part 60 Appendix B. [District Rule 1080] Federally Enforceable Through Title V Permit
23. 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

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

24. An exceedance of a NO<sub>x</sub> or SO<sub>x</sub> emission limit as indicated by the CEMS shall be reported by the operator to the APCO within 24 hours. The notification shall include 1) name and location of the facility, 2) identification of furnace(s) causing the exceedances, 3) calculation of actual NO<sub>x</sub>, CO and VOC emissions, and 4) corrective actions and schedules to complete the work. [District Rule 1080 and Stanislaus County Rule 108] Federally Enforceable Through Title V Permit
25. The operator shall notify the APCO no later than one hour after the detection of a breakdown of the CEMS. The operator shall inform the APCO of the intent to shut down the CEMS at least 24 hours prior to the event. [District Rule 1100] Federally Enforceable Through Title V Permit
26. The permittee shall submit a written report including copies of any Equipment Breakdown reports and/or pertinent variance decisions 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 (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and a negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
27. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
28. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
29. Cylinder gas audits (GGAs) of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy and total 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
30. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201, Stanislaus County Rule 404, District Rule 4202 and Stanislaus County Rule 405. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
31. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4801 and Stanislaus County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
32. The requirements of District Rule 4301 and Stanislaus County Rule 408 were determined to not apply to this unit because the unit does not utilize indirect heat transfer. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
33. The requirements of 40 CFR Part 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 has 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
34. The requirements of 40 CFR Part 61, Subpart N were determined to not apply to this unit because the unit does not use commercial arsenic. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
35. Any glass melting furnace located at an Area Source of hazardous air pollutants shall comply with 40 CFR Part 63 Subpart SSSSSS (National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources). [40 CFR Part 63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
36. The amount of glass produced shall not exceed 637.9 tons during any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit

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

37. NOx emissions shall not exceed 2.95 pounds per ton of glass produced. This performance based limit is to enforce the NOx emission reductions granted by certificate number N-107-2. [District NSR Rule] Federally Enforceable Through Title V Permit
38. Except during furnace idling, shutdown, and startup, the aggregated NOx emissions shall not exceed 3.6 lb-NOx per ton of glass produced (based on a block 24-hour average). Aggregated NOx emissions are the NOx emissions as measured at the common stack divided by the sum of the daily amount of glass produced by permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4. [District Rule 4354, 9.0 and 9.6] Federally Enforceable Through Title V Permit
39. CO emissions shall not exceed 1.0 pounds per ton of glass produced. [District NSR Rule] Federally Enforceable Through Title V Permit
40. The VOC emissions shall not exceed 0.25 pounds per ton of glass produced. [District Rule 2201] Federally Enforceable Through Title V Permit
41. The combined SOx emissions from permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4, while producing glass with equal to or greater than 25% by weight color cullet, shall not exceed 0.99 lb/ton of glass produced (over a rolling 30 day average). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
42. The combined SOx emissions from permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4, while producing glass with less than 25% by weight mixed color cullet, shall not exceed 0.81 lb/ton of glass produced (over a rolling 30 day average). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
43. PM10 emissions, except during electrostatic precipitator bypass episodes, shall not exceed 0.49 pound per ton of glass produced. [District NSR Rules 2201 and 4354] Federally Enforceable Through Title V Permit
44. The PM10 emissions, during electrostatic precipitator bypass episodes, shall not exceed 0.71 pound per ton of glass produced. [District Rule 2201] Federally Enforceable Through Title V Permit
45. The electrostatic precipitator may be bypassed only for maintenance and repair. The duration of electrostatic precipitator bypass episodes shall not exceed 144 hours per calendar year. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
46. The PM10 emissions shall not exceed 28,132 pounds during the first calendar quarter, 28,445 pounds during the second calendar quarter, 28,757 pounds during the third calendar quarter and 28,758 pounds during the fourth calendar quarter. These limits are to enforce the PM10 emission reductions granted by certificate number N-161-4. [District NSR Rule] Federally Enforceable Through Title V Permit
47. During furnace idling, NOx emissions shall not exceed 1,888.0 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
48. During furnace idling, CO emissions shall not exceed 637.9 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
49. During furnace idling, VOC emissions shall not exceed 159.5 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
50. During furnace idling, SOx emissions shall not exceed 701.7 pounds in any one day when producing glass with equal to or greater than 25% by weight color cullet. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
51. During furnace idling, SOx emissions shall not exceed 574.1 pounds in any one day when producing glass with less than 25% by weight color cullet. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
52. During furnace idling, PM10 emissions shall not exceed 319.0 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
53. The facility shall not use commercial arsenic as a raw material in the production process. [40 CFR Part 61 Subpart N] Federally Enforceable Through Title V Permit
54. Devices used to measure primary and secondary voltage and current shall be maintained in accordance with the manufacturer's specifications. [40 CFR Part 64] Federally Enforceable Through Title V Permit

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

55. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
56. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR Part 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
57. The permittee shall comply with the record keeping and reporting requirements of 40 CFR Part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
58. The specific power of the electrostatic precipitator shall be continuously monitored and recorded. [District Rules 2201 and 4354 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
59. A daily record of the hours of operation, the amount of glass pulled from the furnace (in tons), the NOx emissions (in lb/ton of glass pulled), the SOx emissions (in lb/ton of glass pulled), the weight of mixed color mix cullet used, the total amount of cullet used (by weight) and the ratio of the mixed color cullet weight to the total cullet weight (in percent). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
60. The oxygen to fuel ratio shall be continuously monitored and recorded. [District Rule 4354] Federally Enforceable Through Title V Permit
61. The permittee shall maintain daily records of the aggregated NOx emissions and the specific power (in milliwatts/acfm) of the electrostatic precipitator. [District Rules 2520, 9.3.2 and 4354, 9.6.1 and 9.7] Federally Enforceable Through Title V Permit
62. The permittee shall maintain the burner oxygen to fuel ratio records required by this permit. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
63. The permittee shall maintain the specific power records required by this permit. [District Rules 2201, 4354 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
64. A record of the PM10 emissions from this unit, in pounds per calendar quarter, shall be kept. [District Rule 2201] Federally Enforceable Through Title V Permit
65. A record of the cumulative annual electrostatic precipitator bypass duration, in hours, shall be kept. The record shall be updated at least weekly. [District Rule 1070] Federally Enforceable Through Title V Permit
66. 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.

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# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1662-5-3

EXPIRATION DATE: 06/30/2007  
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EQUIPMENT DESCRIPTION:  
BATCH PLANT #1 AND MANUFACTURING EQUIPMENT

## PERMIT UNIT REQUIREMENTS

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1. All equipment shall be constructed, maintained and operated according to the specifications and plans contained in the permit application except as otherwise specified herein. [District Rule 4102]
2. Dust collector filters shall be inspected weekly while in operation for evidence of particulate matter breakthrough and replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. Dust collector filters shall be inspected monthly while not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. 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
5. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201 and Stanislaus County Rule 404] Federally Enforceable Through Title V Permit
6. 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] 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, Stanislaus County Rule 404, District Rule 4202 and Stanislaus County Rule 405. 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-1662-6-6

EXPIRATION DATE: 06/30/2007

## EQUIPMENT DESCRIPTION:

CULLET PROCESSING OPERATION SERVED BY 1 HAMMER KING MODEL 1500 CRUSHER, 1 REMCO GLASS MAX CRUSHER, 4 MOGENSEN MODEL 205X SIZING SCREENS, 9 CONVEYORS, 1 ELEVATOR, 1 CULLET STOCKPILE, 2 HOMAN & LAWRENCE STORAGE SILOS, 1 CYCLONE AND 3 BAGHOUSES

## PERMIT UNIT REQUIREMENTS

1. The Hammer King Model 1500 crusher, the Remco Glass Max crusher and the four Mogenson sizing screens shall be served by a Torit model TD6120-155 baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
2. The transfer from the Remco Glass Max crusher and the four Mogenson screens shall be served by the 41.5 inch diameter cyclone. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The two Homan & Lawrence storage silos are shared with the equipment operating under District permit N-1662-14 and shall be served by a Mikro-Pulsaire model 130-S-820-B baghouse and a Mikro-Pul model SQ-144-101 baghouse. [District NSR Rule] Federally Enforceable Through Title V Permit
4. All equipment shall be constructed, maintained and operated according to the specifications and plans contained in the permit application except as otherwise specified herein. [District Rule 4102]
5. Visible emissions from the baghouses serving the cullet processing and storage operations shall not exceed 5% opacity for a period or periods aggregating more than three minutes in any one hour. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Visible emissions from the baghouses shall be inspected weekly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. Dust collector filters shall be inspected weekly while in operation for evidence of particulate matter breakthrough and replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Dust collector filters shall be inspected monthly while not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
9. Replacement bags numbering at least 10% of the total number of bags in the largest dust collector using each type of bag shall be maintained on the premises. [District NSR Rule] Federally Enforceable Through Title V Permit
10. Material removed from the dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
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

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

12. The cyclone unit shall be inspected quarterly for visible emissions during operation. If any visible emissions are observed, corrective action shall be taken. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA method 9 shall be conducted. The results of inspection shall be kept in a record and shall be made available to the District upon request. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201 and Stanislaus County Rule 404] Federally Enforceable Through Title V Permit
14. Visible emissions from conveyor drop points shall be inspected annually under material and environmental conditions, such as dry and windy, where high emissions are expected. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
15. 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
16. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201, Stanislaus County Rule 404, District Rule 4202 and Stanislaus County Rule 405. 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-1662-7-3

EXPIRATION DATE: 06/30/2007

EQUIPMENT DESCRIPTION:  
GLASS MOLD PLANT AND MANUFACTURING EQUIPMENT

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## PERMIT UNIT REQUIREMENTS

1. All equipment shall be constructed, maintained and operated according to the specifications and plans contained in the permit application except as otherwise specified herein. [District Rule 4102]
2. Dust collector filters shall be inspected weekly while in operation for evidence of particulate matter breakthrough and replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. Dust collector filters shall be inspected monthly while not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. 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
5. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201 and Stanislaus County Rule 404] Federally Enforceable Through Title V Permit
6. 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] 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, Stanislaus County Rule 404, District Rule 4202 and Stanislaus County Rule 405. 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-1662-8-7

EXPIRATION DATE: 06/30/2007

## EQUIPMENT DESCRIPTION:

ELECTRIC GLASS MELTING FURNACE (FURNACE #5) AND A RAW MATERIAL HANDLING AND MIXING SYSTEM. THE RAW MATERIAL HANDLING AND MIXING SYSTEM CONSISTS OF WEIGHED BATCH CONVEYORS 1, 2 AND 3 SERVED BY A FLEX-KLEEN 100BVTS-25111BAGHOUSE (DC-50), A WEIGHED BATCH ELEVATOR SERVED BY A FLEX-KLEEN 100BVTS-25111BAGHOUSE (DC-50) AND A FLEXKLEEN 58BVBS-1611G BAGHOUSE (DC-51), A CHECK SCALE SERVED BY A FLEXKLEEN 58BVBS-1611G BAGHOUSE (DC-51), A 3 CUBIC YARD MIXER, A BAD BATCH SURGE HOPPER, A BAD BATCH STORAGE BIN AND A MIXED BATCH SURGE HOPPER ALL SERVED BY A FLEX-KLEEN 58BVBS-1611G BAGHOUSE (DC- 52), A MIXED BATCH ELEVATOR AND A MIXED BATCH TRANSFER CONVEYOR SERVED BY A FLEX-KLEEN 58BVBS09111G BAGHOUSE (DC-53), FURNACE STORAGE BIN 8-E SERVED BY A FLEX-KLEEN 58BVBS-911G BAGHOUSE (DC-8E), FURNACE STORAGE BIN 8-W SERVED BY A FLEX-KLEEN 58BVBS-9111G BAGHOUSE (DC-8W), ELEVATOR AND A CULLET STORAGE BIN SERVED BY A M1KROPUL 581-8-20 BAGHOUSE (DC-9), AN ENCLOSED SURGE BIN, A BATCH CHARGER, AND A FURNACE CHARGE CONVEYOR. THE FURNACE ALSO INCLUDES SIXTEEN 2.85 MMBTU/HR NATURAL GAS FIRED EMERGENCY BURNERS.

## PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained and operated according to the specifications and plans contained in the permit application except as otherwise specified herein. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Dust collector filters shall be inspected weekly while in operation for evidence of particulate matter breakthrough and replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
3. Dust collector filters shall be inspected monthly while not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. 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, 9.3.2] Federally Enforceable Through Title V Permit
5. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4354. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
6. The requirements of District Rule 4301 and Stanislaus County Rule 408 were determined to not apply to this unit because the unit does not utilize indirect heat transfer. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
7. 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
8. The requirements of 40 CFR 61, Subpart N were determined to not apply to this unit because the unit does not use commercial arsenic. 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.

9. 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
10. Any glass melting furnace located at an Area Source of hazardous air pollutants shall comply with 40 CFR Part 63 Subpart SSSSSS (National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources). [40 CFR Part.63 Subpart SSSSSS] Federally Enforceable Through Title V Permit
11. The permittee shall maintain operating records and/or support documentation necessary to claim exemption from District Rule 4354 based on section 4.1. Records shall be maintained for five years, made available on site during normal business hours from Monday through Friday, and submitted to the APCO upon request. [District Rule 4354, 6.7] Federally Enforceable Through Title V Permit
12. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102] Federally Enforceable Through Title V Permit
13. 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 County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
14. The visible emissions from the baghouses 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
15. The throughput of the raw material transfer and mixing system shall not exceed 459 tons during any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
16. The PM10 emissions from the raw material transfer and mixing system shall not exceed 0.047 lb/ton of throughput. [District Rule 2201] Federally Enforceable Through Title V Permit
17. The glass pull rate shall not exceed 230 tons during any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
18. The SOx emissions from the glass melting operation shall not exceed 0.018 lb/ton of glass pulled. [District Rule 2201] Federally Enforceable Through Title V Permit
19. The PM10 emissions from the glass melting operation shall not exceed 0.024 lb/ton of glass pulled. [District Rule 2201] Federally Enforceable Through Title V Permit
20. No single emergency burner shall operate for more than 200 hours during any one calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
21. The NOx emissions from the emergency burners shall not exceed 0.11 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
22. The CO emissions from the emergency burners shall not exceed 0.084 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
23. The VOC emissions from the emergency burners shall not exceed 0.0055 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
24. The SOx emissions from the emergency burners shall not exceed 0.00285 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
25. The PM10 emissions from the emergency burners shall not exceed 0.0076 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
26. The throughput of the Emergency-Batch Screw Conveyor shall not exceed 35 tons during any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
27. The PM10 emissions due to addition of raw materials with the Emergency-Batch Screw Conveyor shall not exceed 0.12 lb/ton. [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.

28. 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
29. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
30. Source testing to measure PM10 emissions shall be conducted using EPA method 201 and 202, or EPA method 201A and 202, or CARB method 501 and 5. [District Rule 1081] Federally Enforceable Through Title V Permit
31. In lieu of performing a source test for PM10, the results of the total particulate test may be used for compliance with the PM10 emission limit provided the results include both the filterable and condensable (back half) particulates, and that all particulate matter is assumed to be PM10. If this option is exercised, source testing shall be conducted using CARB Method 5 or EPA Method 5 (including condensable (back half) particulates). [District Rule 1081] Federally Enforceable Through Title V Permit
32. Material removed from the baghouses shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
33. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
34. The baghouses shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
35. A daily record of the raw material transfer and mixing system throughput, in tons, shall be kept. [District Rule 2201] Federally Enforceable Through Title V Permit
36. A daily record of the glass pull rate, in tons, shall be kept. [District Rule 2201] Federally Enforceable Through Title V Permit
37. An annual record of the number of hours of emergency burner operation shall be kept. [District Rule 2201] Federally Enforceable Through Title V Permit
38. A daily record of the amount of material added to the furnace by the Emergency-Batch Screw Conveyor, in tons, shall be kept. [District Rule 2201] Federally Enforceable Through Title V Permit
39. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4354] 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-1662-10-3

EXPIRATION DATE: 06/30/2007

## EQUIPMENT DESCRIPTION:

971.1 BHP CATERPILLAR MODEL D349TTA-SCA SERIAL #61P485 TURBOCHARGED AND AFTERCOOLED DIESEL FIRED EMERGENCY IC ENGINE POWERING A 724 KW ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

1. {15} No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
2. {14} Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
3. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115.6(b)(3), and 40 CFR 60 Subpart III] 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, 17 CCR 93115.5(b), 40 CFR Part 60 Subpart III] Federally Enforceable Through Title V Permit
5. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Stanislaus County Rule 407 and District Rule 4801] 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 30 hours per calendar year. [District Rules 4701, 4702, 17 CCR 93115.6(b)(3)] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rules 4701 and 4702, 93115.4(a)(29)] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District 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 and of the type of fuel used. 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. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. {3475} 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]
14. Compliance with the conditions in the permit unit requirements for this unit shall be deemed compliance with the requirements of Stanislaus County Rules 404 and 407 . A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
15. Compliance with the conditions in the permit unit requirements for this unit shall be deemed compliance with the requirements of District Rules 4201 and 4801. 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-1662-11-3

EXPIRATION DATE: 06/30/2007

## EQUIPMENT DESCRIPTION:

971.1 BHP CATERPILLAR MODEL D349TTA-SCA SERIAL #61P486 TURBOCHARGED AND AFTERCOOLED DIESEL FIRED EMERGENCY IC ENGINE POWERING A 724 KW ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

1. {15} No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
2. {14} Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
3. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115.6(b)(3), and 40 CFR 60 Subpart III] 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, 17 CCR 93115.5(b), 40 CFR Part 60 Subpart III] Federally Enforceable Through Title V Permit
5. 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
6. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Stanislaus County Rule 407 and District Rule 4801] 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 30 hours per calendar year. [District Rules 4701, 4702, 17 CCR 93115.6(b)(3)] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rules 4701 and 4702, 93115.4(a)(29)] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District 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 and of the type of fuel used. 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. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
14. Compliance with the conditions in the permit unit requirements for this unit shall be deemed compliance with the requirements of Stanislaus County Rules 404 and 407. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
15. Compliance with the conditions in the permit unit requirements for this unit shall be deemed compliance with the requirements of District Rules 4201 and 4801. 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-1662-12-3

EXPIRATION DATE: 06/30/2007

## EQUIPMENT DESCRIPTION:

971.1 BHP CATERPILLAR MODEL D349TTA-SCA SERIAL #61P549 TURBOCHARGED AND AFTERCOOLED DIESEL FIRED EMERGENCY IC ENGINE POWERING A 724 KW ELECTRICAL GENERATOR

## PERMIT UNIT REQUIREMENTS

1. {15} No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1. or 20% opacity. [District Rule 4101]
2. {14} Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
3. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative. [District Rule 4702, 17 CCR 93115.6(b)(3), and 40 CFR 60 Subpart III] 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, 17 CCR 93115.5(b), 40 CFR Part 60 Subpart III] Federally Enforceable Through Title V Permit
5. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Stanislaus County Rule 407 and District Rule 4801] 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 30 hours per calendar year. [District Rules 4701, 4702, 17 CCR 93115.6(b)(3)] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee. [District Rules 4701 and 4702, 93115.4(a)(29)] Federally Enforceable Through Title V Permit
10. This engine shall not be used to produce power for the electrical distribution system, as part of a voluntary utility demand reduction program, or for an interruptible power contract. [District 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 and of the type of fuel used. 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. [District Rule 4702 and 17 CCR 93115] Federally Enforceable Through Title V Permit
13. {3475} 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]
14. Compliance with the conditions in the permit unit requirements for this unit shall be deemed compliance with the requirements of Stanislaus County Rules 404 and 407 . A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
15. Compliance with the conditions in the permit unit requirements for this unit shall be deemed compliance with the requirements of District Rules 4201 and 4801. 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-1662-14-4

EXPIRATION DATE: 06/30/2007

## EQUIPMENT DESCRIPTION:

BATCH PLANT #2 SERVING GLASS MELTING FURNACES 4 AND 5 (PERMITS N- 1662-4 AND N-1662-8 RESPECTIVELY) AND THE CULLET PROCESSING OPERATION (N-1662-6). THE PLANT CONSISTS OF 7 RAW MATERIAL RECEIVING PITS, 7 UNDERGROUND RAW MATERIAL STORAGE SILOS AND VARIOUS CONVEYORS AND ELEVATORS. EXCEPT FOR THE RECEIVING PITS, THE OPERATION IS SERVED BY A MIKROPUL 64S820 DUST COLLECTOR (DC-1), A MIKROPUL 130-8-20 DUST COLLECTOR (DC-3), A MIKROPUL 144S-820C DUST COLLECTOR (DC-6), A MIKROPUL SQ100-101 DUST COLLECTOR (DC-10) AND A MIKROPUL 144S-820C (DC-39) DUST COLLECTOR. THE RECEIVING PITS UTILIZE CHOKE FEEDING

## PERMIT UNIT REQUIREMENTS

1. The two Homan & Lawrence storage silos are shared with the equipment operating under District permit N-1662-6. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201 and Stanislaus County Rule 404] Federally Enforceable Through Title V Permit
3. Visible emissions from the receiving and storage bins shall be inspected annually under material and environmental conditions, such as dry and windy, where high emissions are expected. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. 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
5. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
6. 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 County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit
7. The visible emissions from the baghouses 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
8. The quantity of material received and transferred to storage shall not exceed 2,275 tons during any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
9. The PM10 emissions from the receiving and storage operation shall not exceed 0.1 lb/ton. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The quantity of material transferred from the storage silos shall not exceed 1,224 tons during any one day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The PM10 emissions due to the transfer of material from the storage silos shall not exceed 0.066 lb/ton. [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.

12. Material removed from the baghouses shall be disposed of in a manner preventing entrainment into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
13. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency. [District NSR Rule] Federally Enforceable Through Title V Permit
14. The baghouses shall be maintained and operated according to manufacturer's specifications. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Records of all baghouse maintenance, including all change outs of filter media, shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
16. A daily record of the quantity of material received and transferred to storage, in tons, shall be kept. [District Rule 2201] Federally Enforceable Through Title V Permit
17. A daily record of the quantity of material transferred from the storage silos, in tons, shall be kept. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 2201 and 4354] 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-1662-15-2

EXPIRATION DATE: 06/30/2007

## EQUIPMENT DESCRIPTION:

17.2 MMBTU/HR HEX MODEL VFTU-342-41860 DRIOX VAPORIZER HEATER WITH TWO (2) COEN MODEL SDAF-10 LOW-NOX BURNERS (RATED AT 8.6 MMBTU/HR EACH)

## PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 2201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101] Federally Enforceable Through Title V Permit
4. The unit shall only be fired on PUC-regulated natural gas. [District Rule 2201] Federally Enforceable Through Title V Permit
5. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in the unit shall be installed, utilized and maintained. [District Rules 2201, 4305, 4306 and 4351] Federally Enforceable Through Title V Permit
6. The annual heat input into this unit shall be less than 9 billion Btu per calendar year. [District Rules 2201, 4305, and 4306] Federally Enforceable Through Title V Permit
7. Emissions rates from the natural gas-fired unit shall not exceed any of the following limits: 30 ppmv NO<sub>x</sub> @ 3% O<sub>2</sub> or 0.036 lb-NO<sub>x</sub>/MMBtu, 0.00285 lb-SO<sub>x</sub>/MMBtu, 0.012 lb-PM<sub>10</sub>/MMBtu, 200 ppmv CO @ 3% O<sub>2</sub> or 0.15 lb-CO/MMBtu, or 0.003 lb-VOC/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
8. Owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4305, 4306 and 4351] Federally Enforceable Through Title V Permit
9. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rule 4306] Federally Enforceable Through Title V Permit
10. The permittee shall monitor, at least on a monthly basis, the amount of water use, the amount of unit blow down, and the exhaust stack temperature or other operational characteristics recommended by the unit manufacturer. 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 unless monitoring has been performed within the last month. [District Rules 4305 and 4306] Federally Enforceable Through Title V Permit
11. Records of tune-up and monitoring of the operational characteristics of the unit shall be maintained. [District Rules 4305 and 4306] 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. Operator shall provide that fuel hhv be certified by third party fuel supplier or determined annually by: ASTM D1826 or D1945 in conjunction with ASTM D3588 for gaseous fuels. A record of the test results shall be kept. [District Rule 4351, 6.1.1, 6.2] Federally Enforceable Through Title V Permit
13. Records of monthly and annual heat input of the unit shall be maintained. [District Rules 2201, 4305, 4306 and 4351, 40 CFR Part 60.48(g)(2)] Federally Enforceable Through Title V Permit
14. All records shall be maintained and retained on-site for a minimum of five years, and shall be made available for District inspection upon request. [District Rules 1070, 4305, and 4306] Federally Enforceable Through Title V Permit

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

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**Appendix B**  
**Previous Title V Operating Permit**

# San Joaquin Valley Air Pollution Control District

FACILITY: N-1662-0-2

EXPIRATION DATE: 06/30/2007

## FACILITY-WIDE REQUIREMENTS

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1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (3/21/02). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.8.1 and 9.12.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

Facility Name: GALLO GLASS COMPANY  
Location: 805 S SANTA CRUZ AVE, MODESTO, CA 95364  
N-1662-0-2 Oct 18 2011 2:51PM - BCHOHNCM

10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (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 County Rules-401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE.

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

23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in 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
24. 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
25. 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
26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR 82, Subpart B. [40 CFR 82, Subpart B] Federally Enforceable Through Title V Permit
29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
34. 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
35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

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

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), and Rule 111 (Kern, Tulare, Kings). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (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
41. On May 1, 1998, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, 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. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

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

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1662-1-12

EXPIRATION DATE: 06/30/2007

## EQUIPMENT DESCRIPTION:

GLASS FURNACE #1 WITH 10 MAXON GAS/OXYGEN BURNERS AND ASSOCIATED FORMING EQUIPMENT (75 MMBTU/HR MAX HEAT CAPACITY). THIS FURNACE IS DUCTED THROUGH A STACK COMMON TO PERMIT UNITS N-1662-1, N-1662-2, N-1662-3 AND N-1662-4. THE FURNACES ARE SERVED BY A SHARED ELECTROSTATIC PRECIPITATOR AND SOX SCRUBBER.

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201 and Stanislaus County Rule 404] Federally Enforceable Through Title V Permit
2. The furnace shall be fired on natural gas and LPG only. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The furnace shall have a continuous monitoring system for NOx. The monitoring device shall have a continuous recording device, and all records shall be kept on site. [District Rules 1080 and 4354, §5.8] Federally Enforceable Through Title V Permit
4. ~~One continuous emissions monitoring (CEM) system may be used for monitoring oxy-fuel fired furnaces #1, #2, #3, and #4~~ provided all of the exhaust gases of each of these furnaces are ducted to a common stack, and monitored down stream of the common stack. The CEMS shall comply with the requirements of 40 Code of Federal Regulations (CFR) Part 51, 40 CFR Parts 60.7 and 60.13, 40 CFR Part 60 Appendix B (Performance Specifications) and Appendix F (Quality Assurance Procedures) and the applicable sections of Rule 1080 (Stack Monitoring). [District Rule 4354, 5.8 and 6.6.1] Federally Enforceable Through Title V Permit
5. 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
6. 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
7. During startups, the permittee shall comply with the requirements of section 5.2 of District Rule 4354. [District Rule 4354, §5.2] Federally Enforceable Through Title V Permit
8. The NOx control system shall be in operation as soon as technologically feasible during the startup period to minimize emissions. [District Rule 4354, §5.2.3] Federally Enforceable Through Title V Permit
9. The NOx control system shall be in operation whenever technologically feasible during shutdown to minimize emissions. [District Rule 4354, §5.3.2] Federally Enforceable Through Title V Permit
10. The NOx control system shall be in operation whenever technologically feasible during furnace idling to minimize emissions. [District Rule 4354, §5.4.1] 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 duration of shutdown, as measured from the time the furnace operations drop below the idle threshold specified in section 3.9 of District Rule 4354 to when all emissions from the furnace cease, shall not exceed 20 days. [District Rule 4354, §5.3.1] Federally Enforceable Through Title V Permit
12. The specific power of the electrostatic precipitator shall be at least 70 milliwatts/acfm except during the bypass episodes allowed by this permit. [District Rule 2520, §9.3.2] Federally Enforceable Through Title V Permit
13. 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] Federally Enforceable Through Title V Permit
14. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Stanislaus County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit
15. Source testing to demonstrate compliance with permit conditions and all rules and regulations for both natural gas and LPG shall be conducted at least once every calendar year. NOx and CO testing shall be performed using CARB Method 100. VOC testing shall be performed using EPA method 25A. PM10 testing shall be performed using EPA methods 201 and 202, EPA methods 201a and 202, or CARB methods 501 and 5. SOx testing shall be performed using EPA Method 8 and CARB Method 1-100. [District Rules 1081; 2520, §9.3.2; and 4354, 6.4 and 6.5.1] Federally Enforceable Through Title V Permit
16. Source testing 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. A source test shall be performed within 90 days after this furnace exceeds 100 hours of operation, on LPG, on an annual basis. [District Rule 1081] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted by a CARB-certified source testing contractor. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to source testing. The results of each source test shall be submitted to the District within 60 days after the source test date. [District Rule 1081] Federally Enforceable Through Title V Permit
18. Source test conditions shall be representative of operations equal to or greater than 60 percent of the fuel use capacity for each furnace as stated in the Permit to Operate. [District Rule 4354, §6.5.2] Federally Enforceable Through Title V Permit
19. PM and PM10 source testing shall be conducted down stream of the electrostatic precipitator in the common stack. Furnaces #1, #2, #3, and #4 must operate simultaneously during source testing unless prior approval is obtained from the District. [District Rule 1081] Federally Enforceable Through Title V Permit
20. An annual Relative Accuracy Test Audit (RATA) shall be performed on the continuous monitoring system as outlined in 40 CFR Part 60 Appendix B. [District Rule 1080] Federally Enforceable Through Title V Permit
21. The owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F (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
22. An exceedance of a NOx emission limit as indicated by the CEMS shall be reported by the operator to the APCO within 24 hours. The notification shall include 1) name and location of the facility, 2) identification of furnace(s) causing the exceedances, 3) calculation of actual NOx, CO and VOC emissions, and 4) corrective actions and schedules to complete the work. [District Rule 1080 and Stanislaus County Rule 108] Federally Enforceable Through Title V Permit
23. The operator shall notify the APCO no later than one hour after the detection of a breakdown of the CEMS. The operator shall inform the APCO of the intent to shut down the CEMS at least 24 hours prior to the event. [District Rule 1100] 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.

24. The permittee shall submit a written report including copies of any Equipment Breakdown reports and/or pertinent variance decisions 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 (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and a negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
25. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
26. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
27. Cylinder gas audits (GGAs) of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy and total 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
28. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201, Stanislaus County Rule 404, District Rule 4202 and Stanislaus County Rule 405. A permit shield is granted from these requirements. [District Rule 2520, §13.2] 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 4801 and Stanislaus County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
30. The requirements of District Rule 4301 and Stanislaus County Rule 408 were determined to not apply to this unit because the unit does not utilize indirect heat transfer. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
31. The requirements of 40 CFR Part 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 has 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
32. The requirements of 40 CFR Part 61, Subpart N were determined to not apply to this unit because the unit does not use commercial arsenic. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
33. NOx emissions shall not exceed 1.5 pounds per ton of glass pulled. This performance based limit is to enforce the NOx emission reductions granted by certificate number N-106-2. [District NSR Rule] Federally Enforceable Through Title V Permit
34. Except during furnace idling, shutdown, and startup, the aggregated NOx emissions shall not exceed 3.6 lb-NOx per ton of glass pulled (based on a block 24-hour average). Aggregated NOx emission are the NOx emissions as measured at the common stack divided by the sum of the daily glass pulled from permit units N-1662-1, '-2, '-3, and '-4. [District Rule 4354, 9.0, 9.4, and 9.7.1] Federally Enforceable Through Title V Permit
35. CO emissions shall not exceed 0.04 pounds per ton of glass pulled. This performance based limit is to enforce the CO emission reductions granted by certificate number N-106-3. [District NSR Rule] Federally Enforceable Through Title V Permit
36. The VOC emissions shall not exceed 0.25 pounds per ton of glass pulled. [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.

37. The SO<sub>x</sub> emissions shall not exceed 2.35 pounds per ton of glass pulled. [District Rule 2201] Federally Enforceable Through Title V Permit
38. PM<sub>10</sub> emissions, except during electrostatic precipitator bypass episodes, shall not exceed 0.49 pound per ton of glass pulled. [District NSR Rule] Federally Enforceable Through Title V Permit
39. The PM<sub>10</sub> emissions, during electrostatic precipitator bypass episodes, shall not exceed 0.71 pound per ton of glass pulled. [District Rule 2201] Federally Enforceable Through Title V Permit
40. The electrostatic precipitator may be bypassed only for maintenance and repair. The duration of electrostatic precipitator bypass episodes shall not exceed 144 hours per calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
41. The PM<sub>10</sub> emissions shall not exceed 22,936 pounds during the first calendar quarter, 23,190 pounds during the second calendar quarter, 23,445 pounds during the third calendar quarter and 23,445 pounds during the fourth calendar quarter. These limits are to enforce the PM<sub>10</sub> emission reductions granted by certificate number N-161-4. [District Rule 2201] Federally Enforceable Through Title V Permit
42. NO<sub>x</sub>, CO and VOC emissions during idling shall not exceed the emissions limits as calculated in Section 5.4.2 of District Rule 4354 (2/21/02). [District Rule 4354, 5.4.2] Federally Enforceable Through Title V Permit
43. The facility shall not use commercial arsenic as a raw material in the production process. [40 CFR Part 61 Subpart N] Federally Enforceable Through Title V Permit
44. Devices used to measure primary and secondary voltage and current shall be maintained in accordance with the manufacturer's specifications. [40 CFR Part 64] Federally Enforceable Through Title V Permit
45. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
46. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR Part 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
47. The permittee shall comply with the record keeping and reporting requirements of 40 CFR Part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
48. Until the full compliance date for Tier 2 emission limits specified in District Rule 4354, Section 7.1, the permittee shall maintain an operating log that includes: on a monthly basis, the total hours of operation; type and quantity of fuel used in each furnace; and the quantity of glass pulled. The owner shall maintain records of source tests and operating parameters established during the initial source test, maintenance, repair, malfunction, idling, shutdown and start-up. This information shall be made available on site during normal business hours from Monday through Friday for a period of five years, and submitted to the APCO upon request. [District Rule 2520, §9.4.2 and District Rule 4354, §6.3.1] Federally Enforceable Through Title V Permit
49. The permittee shall maintain daily records of the aggregated NO<sub>x</sub> emissions and the specific power (in milliwatts/acfm) of the electrostatic precipitator. [District Rules 2520, 9.3.2 and 4354, 9.6.1 and 9.7] Federally Enforceable Through Title V Permit
50. A record of the PM<sub>10</sub> emissions from this unit, in pounds per calendar quarter, shall be kept. [District Rule 2201] Federally Enforceable Through Title V Permit
51. A record of the cumulative annual electrostatic precipitator bypass duration, in hours, shall be kept. The record shall be updated at least weekly. [District Rule 1070] Federally Enforceable Through Title V Permit
52. 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.

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-1662-2-13

EXPIRATION DATE: 06/30/2007

## EQUIPMENT DESCRIPTION:

GLASS FURNACE #2 WITH 10 MAXON GAS/OXYGEN BURNERS AND ASSOCIATED FORMING EQUIPMENT (75 MMBTU/HR MAX HEAT CAPACITY). THIS FURNACE IS DUCTED THROUGH A STACK COMMON TO PERMIT UNITS N-1662-1, N-1662-2, N-1662-3 AND N-1662-4. THE FURNACES ARE SERVED BY A SHARED ELECTROSTATIC PRECIPITATOR AND SOX SCRUBBER.

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201 and Stanislaus County Rule 404] Federally Enforceable Through Title V Permit
2. The furnace shall be fired on natural gas and LPG only. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The furnace shall have a continuous monitoring system for NOx. The monitoring device shall have a continuous recording device, and all records shall be kept on site. [District Rules 1080 and 4354, §5.8] Federally Enforceable Through Title V Permit
4. One continuous emissions monitoring (CEM) system may be used for monitoring oxy-fuel fired furnaces #1, #2, #3, and #4 provided all of the exhaust gases of each of these furnaces are ducted to a common stack, and monitored down stream of the common stack. The CEMS shall comply with the requirements of 40 Code of Federal Regulations (CFR) Part 51, 40 CFR Parts 60,7 and 60.13, 40 CFR Part 60 Appendix B (Performance Specifications) and Appendix F (Quality Assurance Procedures) and the applicable sections of Rule 1080 (Stack Monitoring). [District Rule 4354, 5.8 and 6.6.1] Federally Enforceable Through Title V Permit
5. 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
6. 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
7. During startups, the permittee shall comply with the requirements of section 5.2 of District Rule 4354. [District Rule 4354, §5.2] Federally Enforceable Through Title V Permit
8. The NOx control system shall be in operation as soon as technologically feasible during the startup period to minimize emissions. [District Rule 4354, §5.2.3] Federally Enforceable Through Title V Permit
9. The NOx control system shall be in operation whenever technologically feasible during shutdown to minimize emissions. [District Rule 4354, §5.3.2] Federally Enforceable Through Title V Permit
10. The NOx control system shall be in operation whenever technologically feasible during furnace idling to minimize emissions. [District Rule 4354, §5.4.1] 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 duration of shutdown, as measured from the time the furnace operations drop below the idle threshold specified in section 3.9 of District Rule 4354 to when all emissions from the furnace cease, shall not exceed 20 days. [District Rule 4354, §5.3.1] Federally Enforceable Through Title V Permit
12. The specific power of the electrostatic precipitator shall be at least 70 milliwatts/acfm except during the bypass episodes allowed by this permit. [District Rule 2520, §9.3.2] Federally Enforceable Through Title V Permit
13. 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] Federally Enforceable Through Title V Permit
14. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Stanislaus County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit
15. Source testing to demonstrate compliance with permit conditions and all rules and regulations for both natural gas and LPG shall be conducted at least once every calendar year. NOx and CO testing shall be performed using CARB Method 100. VOC testing shall be performed using EPA method 25A. PM10 testing shall be performed using EPA methods 201 and 202, EPA methods 201a and 202, or CARB methods 501 and 5. SOx testing shall be performed using EPA Method 8 and CARB Method 1-100. [District Rules 1081; 2520, §9.3.2; and 4354, 6.4 and 6.5.1] Federally Enforceable Through Title V Permit
16. Source testing 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. A source test shall be performed within 90 days after this furnace exceeds 100 hours of operation, on LPG, on an annual basis. [District Rule 1081] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted by a CARB-certified source testing contractor. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to source testing. The results of each source test shall be submitted to the District within 60 days after the source test date. [District Rule 1081] Federally Enforceable Through Title V Permit
18. Source test conditions shall be representative of operations equal to or greater than 60 percent of the fuel use capacity for each furnace as stated in the Permit to Operate. [District Rule 4354, §6.5.2] Federally Enforceable Through Title V Permit
19. PM and PM10 source testing shall be conducted down stream of the electrostatic precipitator in the common stack. Furnaces #1, #2, #3, and #4 must operate simultaneously during source testing unless prior approval is obtained from the District. [District Rule 1081] Federally Enforceable Through Title V Permit
20. An annual Relative Accuracy Test Audit (RATA) shall be performed on the continuous monitoring system as outlined in 40 CFR Part 60 Appendix B. [District Rule 1080] Federally Enforceable Through Title V Permit
21. The owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F (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
22. An exceedance of a NOx emission limit as indicated by the CEMS shall be reported by the operator to the APCO within 24 hours. The notification shall include 1) name and location of the facility, 2) identification of furnace(s) causing the exceedances, 3) calculation of actual NOx, CO and VOC emissions, and 4) corrective actions and schedules to complete the work. [District Rules 1080 and 4354, §9.6 and Stanislaus County Rule 108] Federally Enforceable Through Title V Permit
23. The operator shall notify the APCO no later than one hour after the detection of a breakdown of the CEMS. The operator shall inform the APCO of the intent to shut down the CEMS at least 24 hours prior to the event. [District Rule 1100] 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.

24. The permittee shall submit a written report including copies of any Equipment Breakdown reports and/or pertinent variance decisions 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 (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and a negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
25. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
26. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
27. Cylinder gas audits (GGAs) of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy and total 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
28. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201, Stanislaus County Rule 404, District Rule 4202 and Stanislaus County Rule 405. A permit shield is granted from these requirements. [District Rule 2520, §13.2] 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 4804 and Stanislaus County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
30. The requirements of District Rule 4301 and Stanislaus County Rule 408 were determined to not apply to this unit because the unit does not utilize indirect heat transfer. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
31. The requirements of 40 CFR Part 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 has 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
32. The requirements of 40 CFR Part 61, Subpart N were determined to not apply to this unit because the unit does not use commercial arsenic. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
33. NOx emissions shall not exceed 2.77 pounds per ton of glass pulled. This performance based limit is to enforce the NOx emission reductions granted by certificate number N-54-2. [District NSR Rule] Federally Enforceable Through Title V Permit
34. Except during furnace idling, shutdown, and startup, the aggregated NOx emissions shall not exceed 3.6 lb-NOx per ton of glass pulled (based on a block 24-hour average). Aggregated NOx emissions are the NOx emissions as measured at the common stack divided by the sum of the daily glass pulled from permit units N-1662-1, '-2, '-3, and '-4. [District Rule 4354, 9.0, 9.4, and 9.7.1] Federally Enforceable Through Title V Permit
35. The CO emissions shall not exceed 1.0 pound per ton of glass-pulled. [District NSR Rule and District Rule 4354] Federally Enforceable Through Title V Permit
36. The VOC emissions shall not exceed 0.25 pounds per ton of glass pulled. [District NSR Rule] Federally Enforceable Through Title V Permit
37. The SOx emissions shall not exceed 2.35 pounds per ton of glass pulled. [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.

38. PM10 emissions, except during electrostatic precipitator bypass episodes, shall not exceed 0.49 pound per ton of glass pulled. [District NSR Rule] Federally Enforceable Through Title V Permit
39. The PM10 emissions, during electrostatic precipitator bypass episodes, shall not exceed 0.71 pound per ton of glass pulled. [District NSR Rule] Federally Enforceable Through Title V Permit
40. The electrostatic precipitator may be bypassed only for maintenance and repair. The duration of electrostatic precipitator bypasses shall not exceed 144 hours per calendar year. [District NSR Rule] Federally Enforceable Through Title V Permit
41. The PM10 emissions shall not exceed 15,527 pounds during the first calendar quarter, 15,699 pounds during the second calendar quarter, 15,872 pounds during the third calendar quarter and 15,872 pounds during the fourth calendar quarter. These limits are to enforce the PM10 emission reductions granted by certificate number N-161-4. [District NSR Rule] Federally Enforceable Through Title V Permit
42. NOx, CO and VOC emissions during idling shall not exceed the emissions limits as calculated in Section 5.4.2 of District Rule 4354 (2/21/02). [District Rule 4354, 5.4.2] Federally Enforceable Through Title V Permit
43. The facility shall not use commercial arsenic as a raw material in the production process. [40 CFR Part 61 Subpart N] Federally Enforceable Through Title V Permit
44. Devices used to measure primary and secondary voltage and current shall be maintained in accordance with the manufacturer's specifications. [40 CFR Part 64] Federally Enforceable Through Title V Permit
45. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
46. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR Part 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
47. The permittee shall comply with the record keeping and reporting requirements of 40 CFR Part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
48. The permittee shall maintain daily records of total hours of operation, type and quantity of fuel used, quantity of glass pulled, NOx emissions (in lb/ton of glass pulled), aggregated NOx emissions, and specific power (in milliwatts/acfm) of the electrostatic precipitator. The permittee shall also maintain records of source tests and all operating parameters established during the initial source test, all instances of maintenance and repair, any malfunction, as well as all periods of idling, startup, and shutdown. All records shall be made available on site during normal business hours from Monday through Friday and shall be provided to the District upon request. [District NSR Rule and District Rules 2520 §9.3.2 and 4354, §6.3.2 & 9.6.1] Federally Enforceable Through Title V Permit
49. A record of the PM10 emissions from this unit, in pounds per calendar quarter, shall be kept. [District NSR Rule] Federally Enforceable Through Title V Permit
50. A record of the cumulative annual electrostatic precipitator bypass duration, in hours, shall be kept. The record shall be updated at least weekly. [District Rule 1070] Federally Enforceable Through Title V Permit
51. 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.

**San Joaquin Valley  
Air Pollution Control District**

**PERMIT UNIT: N-1662-3-13**

**EXPIRATION DATE: 06/30/2007**

**EQUIPMENT DESCRIPTION:**

GLASS FURNACE #3 WITH 10 MAXON GAS/OXYGEN BURNERS AND ASSOCIATED FORMING EQUIPMENT (75 MMBTU/HR MAX HEAT CAPACITY). THIS FURNACE IS DUCTED THROUGH A STACK COMMON TO PERMIT UNITS N-1662-1, N-1662-2, N-1662-3 AND N-1662-4. THE FURNACES ARE SERVED BY A SHARED ELECTROSTATIC PRECIPITATOR AND SOX SCRUBBER.

**PERMIT UNIT REQUIREMENTS**

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1. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201 and Stanislaus County Rule 404] Federally Enforceable Through Title V Permit
2. The furnace shall be fired on natural gas and LPG only. [District NSR Rule] Federally Enforceable Through Title V Permit

**Appendix C**  
**Draft ATC's N-1662-1-13, N-1662-2-14,**  
**N-1662-3-14 and N-1662-4-14**

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT  
**DRAFT**

PERMIT NO: N-1662-1-13

LEGAL OWNER OR OPERATOR: GALLO GLASS COMPANY  
MAILING ADDRESS: P O BOX 3044  
MODESTO, CA 95353

LOCATION: 605 S SANTA CRUZ AVE  
MODESTO, CA 95354

**EQUIPMENT DESCRIPTION:**

FURNACE #1 WITH 10 MAXON GAS/OXYGEN BURNERS AND ASSOCIATED EQUIPMENT (75 MMBTU/HR MAX HEAT CAPACITY) THIS FURNACE IS DUCTED THROUGH A STACK COMMON TO PERMIT UNITS N-1662-1, N-1662-2, N-1662-3 AND N-1662-4 THE FURNACES ARE SERVED BY A SHARED ELECTROSTATIC PRECIPITATOR AND SOX SCRUBBER MODIFICATIONS FOR COMPLIANCE WITH DISTRICT RULE 4354

**CONDITIONS**

1. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201 and Stanislaus County Rule 404] Federally Enforceable Through Title V Permit
2. The furnace shall be fired on natural gas and LPG only. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The furnace shall have continuous monitoring systems for NOx and SOx. The monitoring devices shall have continuous recording devices, and all records shall be kept on site. [District Rules 1080 and 4354, §5.9] Federally Enforceable Through Title V Permit
4. One continuous emissions monitoring (CEM) system may be used for monitoring oxy-fuel fired furnaces #1, #2, #3, and #4 provided all of the exhaust gases of each of these furnaces are ducted to a common stack, and monitored down stream of the common stack. The CEMS shall comply with the requirements of 40 Code of Federal Regulations (CFR) Part 51, 40 CFR Parts 60.7 and 60.13, 40 CFR Part 60 Appendix B (Performance Specifications) and Appendix F (Quality Assurance Procedures) and the applicable sections of Rule 1080 (Stack Monitoring) [District Rule 4354, 5.9 and 6.6.1] Federally Enforceable Through Title V Permit
5. 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

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-8400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Sayed Sadredin, Executive Director, APCO

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DAVID WARNER, Director of Permit Services  
N-1662-1-13, Oct 14 2011 3:21PM - SCHOONHOOF Joint Inspection NOT Required

6. 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<sub>x</sub>, CO, and O<sub>2</sub> 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
7. During startups, the permittee shall comply with the requirements of section 5.5 of District Rule 4354. [District Rule 4354, §5.5] Federally Enforceable Through Title V Permit
8. The NO<sub>x</sub> control system shall be in operation as soon as technologically feasible during the startup period to minimize emissions. [District Rule 4354, §5.5.6] Federally Enforceable Through Title V Permit
9. The NO<sub>x</sub> control system shall be in operation whenever technologically feasible during shutdown to minimize emissions. [District Rule 4354, §5.6.2] Federally Enforceable Through Title V Permit
10. The NO<sub>x</sub> control system shall be in operation whenever technologically feasible during furnace idling to minimize emissions. [District Rule 4354, §5.7.1] Federally Enforceable Through Title V Permit
11. The duration of shutdown, as measured from the time the furnace operations drop below the idle threshold specified in section 3.17 of District Rule 4354 to when all emissions from the furnace cease, shall not exceed 20 days. [District Rule 4354, §5.6.1] Federally Enforceable Through Title V Permit
12. The specific power of the electrostatic precipitator shall be at least 70 milliwatts/acfm except during the bypass episodes allowed by this permit [District Rule 2520, §9.3.2] Federally Enforceable Through Title V Permit
13. The oxygen to fuel ratio shall be maintained within the range shown by the most recent source test to result in compliance with the CO and VOC limits of this permit. The acceptable range of the oxygen to fuel ratio shall be established during the initial source test and during each subsequent annual source test. [District Rule 4354] Federally Enforceable Through Title V Permit
14. 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] Federally Enforceable Through Title V Permit
15. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Stanislaus County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit
16. Source testing to demonstrate compliance with permit conditions and all rules and regulations for both natural gas and LPG shall be conducted at least once every calendar year. NO<sub>x</sub> and CO testing shall be performed using CARB Method 100. VOC testing shall be performed using EPA method 25A. PM<sub>10</sub> testing shall be performed using EPA methods 201 and 202, EPA methods 201a and 202, or CARB methods 501 and 5. SO<sub>x</sub> testing shall be performed using EPA Method 8 and CARB Method 1-100. [District Rules 1081; 2520, §9.3.2; and 4354, 6.4 and 6.5] Federally Enforceable Through Title V Permit
17. Source testing 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. A source test shall be performed within 90 days after this furnace exceeds 100 hours of operation, on LPG, on an annual basis. [District Rule 1081] Federally Enforceable Through Title V Permit
18. Source testing shall be conducted by a CARB-certified source testing contractor. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to source testing. The results of each source test shall be submitted to the District within 60 days after the source test date. [District Rule 1081] Federally Enforceable Through Title V Permit
19. Source test conditions shall be representative of operations equal to or greater than 60 percent of the fuel use capacity for each furnace as stated in the Permit to Operate. [District Rule 4354, §6.4.2] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. PM and PM10 source testing shall be conducted down stream of the electrostatic precipitator in the common stack. Furnaces #1, #2, #3, and #4 must operate simultaneously during source testing unless prior approval is obtained from the District. [District Rule 1081] Federally Enforceable Through Title V Permit
21. An annual Relative Accuracy Test Audit (RATA) shall be performed on the continuous monitoring system as outlined in 40 CFR Part 60 Appendix B. [District Rule 1080] Federally Enforceable Through Title V Permit
22. The owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F (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
23. An exceedance of a NO<sub>x</sub> or SO<sub>x</sub> emission limit as indicated by the CEMS shall be reported by the operator to the APCO within 24 hours. The notification shall include 1) name and location of the facility, 2) identification of furnace(s) causing the exceedances, 3) calculation of actual NO<sub>x</sub>, CO and VOC emissions, and 4) corrective actions and schedules to complete the work. [District Rule 1080 and Stanislaus County Rule 108] Federally Enforceable Through Title V Permit
24. The operator shall notify the APCO no later than one hour after the detection of a breakdown of the CEMS. The operator shall inform the APCO of the intent to shut down the CEMS at least 24 hours prior to the event. [District Rule 1100] Federally Enforceable Through Title V Permit
25. The permittee shall submit a written report including copies of any Equipment Breakdown reports and/or pertinent variance decisions 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 (if known), corrective actions taken and preventive measures adopted, averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments, and a negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
26. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
27. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3 3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
28. Cylinder gas audits (GGAs) of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy and total 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
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201, Stanislaus County Rule 404, District Rule 4202 and Stanislaus County Rule 405. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
30. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4801 and Stanislaus County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
31. The requirements of District Rule 4301 and Stanislaus County Rule 408 were determined to not apply to this unit because the unit does not utilize indirect heat transfer. A permit shield is granted from these requirements. [District Rule 2520, §13 2] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

32. The requirements of 40 CFR Part 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 has 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
33. The requirements of 40 CFR Part 61, Subpart N were determined to not apply to this unit because the unit does not use commercial arsenic. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
34. The amount of glass produced shall not exceed 520.1 tons during any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
35. NO<sub>x</sub> emissions shall not exceed 1.5 pounds per ton of glass produced. This performance based limit is to enforce the NO<sub>x</sub> emission reductions granted by certificate number N-106-2. [District NSR Rule] Federally Enforceable Through Title V Permit
36. Except during furnace idling, shutdown, and startup, the aggregated NO<sub>x</sub> emissions shall not exceed 3.6 lb-NO<sub>x</sub> per ton of glass produced (based on a block 24-hour average) Aggregated NO<sub>x</sub> emission are the NO<sub>x</sub> emissions as measured at the common stack divided by the sum of the daily amount of glass produced by permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4. [District Rule 4354, 9.0 and 9.6] Federally Enforceable Through Title V Permit
37. CO emissions shall not exceed 0.04 pounds per ton of glass produced. This performance based limit is to enforce the CO emission reductions granted by certificate number N-106-3 [District NSR Rule] Federally Enforceable Through Title V Permit
38. The VOC emissions shall not exceed 0.25 pounds per ton of glass produced. [District Rule 2201] Federally Enforceable Through Title V Permit
39. The combined SO<sub>x</sub> emissions from permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4, while producing glass with equal to or greater than 25% by weight color cullet, shall not exceed 0.99 lb/ton of glass produced (over a rolling 30 day average). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
40. The combined SO<sub>x</sub> emissions from permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4, while producing glass with less than 25% by weight mixed color cullet, shall not exceed 0.81 lb/ton of glass produced (over a rolling 30 day average). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
41. PM<sub>10</sub> emissions, except during electrostatic precipitator bypass episodes, shall not exceed 0.49 pound per ton of glass produced. [District NSR Rules 2201 and 4354] Federally Enforceable Through Title V Permit
42. The PM<sub>10</sub> emissions, during electrostatic precipitator bypass episodes, shall not exceed 0.71 pound per ton of glass produced. [District Rule 2201] Federally Enforceable Through Title V Permit
43. The electrostatic precipitator may be bypassed only for maintenance and repair. The duration of electrostatic precipitator bypass episodes shall not exceed 144 hours per calendar year. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
44. The PM<sub>10</sub> emissions shall not exceed 22,936 pounds during the first calendar quarter, 23,190 pounds during the second calendar quarter, 23,445 pounds during the third calendar quarter and 23,445 pounds during the fourth calendar quarter. These limits are to enforce the PM<sub>10</sub> emission reductions granted by certificate number N-161-4. [District Rule 2201] Federally Enforceable Through Title V Permit
45. During furnace idling, NO<sub>x</sub> emissions shall not exceed 2,080.4 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
46. During furnace idling, CO emissions shall not exceed 520.1 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
47. During furnace idling, VOC emissions shall not exceed 130.0 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
48. During furnace idling, SO<sub>x</sub> emissions shall not exceed 572.1 pounds in any one day when producing glass with equal to or greater than 25% by weight color cullet. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

49. During furnace idling, SOx emissions shall not exceed 468.1 pounds in any one day when producing glass with less than 25% by weight color cullet. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
50. During furnace idling, PM10 emissions shall not exceed 260.1 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
51. The facility shall not use commercial arsenic as a raw material in the production process [40 CFR Part 61 Subpart N] Federally Enforceable Through Title V Permit
52. Devices used to measure primary and secondary voltage and current shall be maintained in accordance with the manufacturer's specifications [40 CFR Part 64] Federally Enforceable Through Title V Permit
53. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7 [40 CFR Part 64] Federally Enforceable Through Title V Permit
54. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR Part 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
55. The permittee shall comply with the record keeping and reporting requirements of 40 CFR Part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
56. The specific power of the electrostatic precipitator shall be continuously monitored and recorded. [District Rules 2201 and 4354 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
57. A daily record of the hours of operation, the amount of glass pulled from the furnace (in tons), the NOx emissions (in lb/ton of glass pulled), the SOx emissions (in lb/ton of glass pulled), the weight of mixed color mix cullet used, the total amount of cullet used (by weight) and the ratio of the mixed color cullet weight to the total cullet weight (in percent). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
58. The oxygen to fuel ratio shall be continuously monitored and recorded. [District Rule 4354] Federally Enforceable Through Title V Permit
59. The permittee shall maintain daily records of the aggregated NOx emissions and the specific power (in milliwatts/acfm) of the electrostatic precipitator. [District Rules 2520, 9.3.2 and 4354, 9.6.1 and 9.7] Federally Enforceable Through Title V Permit
60. The permittee shall maintain the burner oxygen to fuel ratio records required by this permit. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
61. The permittee shall maintain the specific power records required by this permit. [District Rules 2201, 4354 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
62. A record of the PM10 emissions from this unit, in pounds per calendar quarter, shall be kept. [District Rule 2201] Federally Enforceable Through Title V Permit
63. A record of the cumulative annual electrostatic precipitator bypass duration, in hours, shall be kept. The record shall be updated at least weekly. [District Rule 1070] Federally Enforceable Through Title V Permit
64. 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
65. This Authority to Construct serves as a written Certificate of Conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c) [District Rule 2201] Federally Enforceable Through Title V Permit
66. The permittee may construct or modify the equipment as authorized by this Authority to Construct at this time. Prior to operating with the modifications authorized by this Authority to Construct, the District shall receive an application for an Administrative Permit Amendment. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT  
**DRAFT**

PERMIT NO: N-1662-2-14

LEGAL OWNER OR OPERATOR: GALLO GLASS COMPANY  
MAILING ADDRESS: P O BOX 3044  
MODESTO, CA 95353

LOCATION: 605 S SANTA CRUZ AVE  
MODESTO, CA 95354

**EQUIPMENT DESCRIPTION:**

GLASS FURNACE #2 WITH 10 MAXON GAS/OXYGEN BURNERS AND ASSOCIATED FORMING EQUIPMENT (75 MMBTU/HR MAX HEAT CAPACITY). THIS FURNACE IS DUCTED THROUGH A STACK COMMON TO PERMIT UNITS N-1662-1, N-1662-2, N-1662-3 AND N-1662-4 THE FURNACES ARE SERVED BY A SHARED ELECTROSTATIC PRECIPITATOR AND SOX SCRUBBER MODIFICATIONS FOR COMPLIANCE WITH DISTRICT RULE 4354

**CONDITIONS**

1. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201 and Stanislaus County Rule 404] Federally Enforceable Through Title V Permit
2. The furnace shall be fired on natural gas and LPG only. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The furnace shall have continuous monitoring systems for NOx and SOx. The monitoring devices shall have continuous recording devices, and all records shall be kept on site. [District Rules 1080 and 4354, §5.9] Federally Enforceable Through Title V Permit
4. One continuous emissions monitoring (CEM) system may be used for monitoring oxy-fuel fired furnaces #1, #2, #3, and #4 provided all of the exhaust gases of each of these furnaces are ducted to a common stack, and monitored down stream of the common stack. The CEMS shall comply with the requirements of 40 Code of Federal Regulations (CFR) Part 51, 40 CFR Parts 60.7 and 60.13, 40 CFR Part 60 Appendix B (Performance Specifications) and Appendix F (Quality Assurance Procedures) and the applicable sections of Rule 1080 (Stack Monitoring). [District Rule 4354, 5.9 and 6.6.1] Federally Enforceable Through Title V Permit
5. 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

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Sayed Sadredin, Executive Director APCO

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DAVID WARNER, Director of Permit Services  
N-1662-2-14 Oct 14 2011 3:22PM - SCHEDULED Job Inspection NOT Required

6. 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<sub>x</sub>, CO, and O<sub>2</sub> 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
7. During startups, the permittee shall comply with the requirements of section 5.5 of District Rule 4354. [District Rule 4354, §5.5] Federally Enforceable Through Title V Permit
8. The NO<sub>x</sub> control system shall be in operation as soon as technologically feasible during the startup period to minimize emissions [District Rule 4354, §5.5.6] Federally Enforceable Through Title V Permit
9. The NO<sub>x</sub> control system shall be in operation whenever technologically feasible during shutdown to minimize emissions. [District Rule 4354, §5.6.2] Federally Enforceable Through Title V Permit
10. The NO<sub>x</sub> control system shall be in operation whenever technologically feasible during furnace idling to minimize emissions. [District Rule 4354, §5.7.1] Federally Enforceable Through Title V Permit
11. The duration of shutdown, as measured from the time the furnace operations drop below the idle threshold specified in section 3.17 of District Rule 4354 to when all emissions from the furnace cease, shall not exceed 20 days. [District Rule 4354, §5.6.1] Federally Enforceable Through Title V Permit
12. The specific power of the electrostatic precipitator shall be at least 70 milliwatts/acfm except during the bypass episodes allowed by this permit. [District Rule 2520, §9.3.2] Federally Enforceable Through Title V Permit
13. The oxygen to fuel ratio shall be maintained within the range shown by the most recent source test to result in compliance with the CO and VOC limits of this permit. The acceptable range of the oxygen to fuel ratio shall be established during the initial source test and during each subsequent annual source test [District Rule 4354] Federally Enforceable Through Title V Permit
14. 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] Federally Enforceable Through Title V Permit
15. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Stanislaus County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit
16. Source testing to demonstrate compliance with permit conditions and all rules and regulations for both natural gas and LPG shall be conducted at least once every calendar year. NO<sub>x</sub> and CO testing shall be performed using CARB Method 100. VOC testing shall be performed using EPA method 25A. PM<sub>10</sub> testing shall be performed using EPA methods 201 and 202, EPA methods 201a and 202, or CARB methods 501 and 5. SO<sub>x</sub> testing shall be performed using EPA Method 8 and CARB Method 1-100. [District Rules 1081; 2520, §9.3.2; and 4354, 6.4 and 6.5] Federally Enforceable Through Title V Permit
17. Source testing 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. A source test shall be performed within 90 days after this furnace exceeds 100 hours of operation, on LPG, on an annual basis. [District Rule 1081] Federally Enforceable Through Title V Permit
18. Source testing shall be conducted by a CARB-certified source testing contractor. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to source testing. The results of each source test shall be submitted to the District within 60 days after the source test date. [District Rule 1081] Federally Enforceable Through Title V Permit
19. Source test conditions shall be representative of operations equal to or greater than 60 percent of the fuel use capacity for each furnace as stated in the Permit to Operate [District Rule 4354, §6.4.2] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. PM and PM10 source testing shall be conducted down stream of the electrostatic precipitator in the common stack. Furnaces #1, #2, #3, and #4 must operate simultaneously during source testing unless prior approval is obtained from the District. [District Rule 1081] Federally Enforceable Through Title V Permit
21. An annual Relative Accuracy Test Audit (RATA) shall be performed on the continuous monitoring system as outlined in 40 CFR Part 60 Appendix B. [District Rule 1080] Federally Enforceable Through Title V Permit
22. The owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F (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
23. An exceedance of a NOx or SOx emission limit as indicated by the CEMS shall be reported by the operator to the APCO within 24 hours. The notification shall include 1) name and location of the facility, 2) identification of furnace(s) causing the exceedances, 3) calculation of actual NOx, CO and VOC emissions, and 4) corrective actions and schedules to complete the work. [District Rule 1080 and Stanislaus County Rule 108] Federally Enforceable Through Title V Permit
24. The operator shall notify the APCO no later than one hour after the detection of a breakdown of the CEMS. The operator shall inform the APCO of the intent to shut down the CEMS at least 24 hours prior to the event. [District Rule 1100] Federally Enforceable Through Title V Permit
25. The permittee shall submit a written report including copies of any Equipment Breakdown reports and/or pertinent variance decisions 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 (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and a negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
26. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
27. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
28. Cylinder gas audits (GGAs) of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy and total 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
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201, Stanislaus County Rule 404, District Rule 4202 and Stanislaus County Rule 405. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
30. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4801 and Stanislaus County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
31. The requirements of District Rule 4301 and Stanislaus County Rule 408 were determined to not apply to this unit because the unit does not utilize indirect heat transfer. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

32. The requirements of 40 CFR Part 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 has 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
33. The requirements of 40 CFR Part 61, Subpart N were determined to not apply to this unit because the unit does not use commercial arsenic. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
34. The amount of glass produced shall not exceed 352.1 tons during any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
35. NOx emissions shall not exceed 2.77 pounds per ton of glass produced. This performance based limit is to enforce the NOx emission reductions granted by certificate number N-54-2. [District NSR Rule] Federally Enforceable Through Title V Permit
36. Except during furnace idling, shutdown, and startup, the aggregated NOx emissions shall not exceed 3.6 lb-NOx per ton of glass produced (based on a block 24-hour average). Aggregated NOx emission are the NOx emissions as measured at the common stack divided by the sum of the daily amount of glass produced by permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4. [District Rule 4354, 9.0 and 9.6] Federally Enforceable Through Title V Permit
37. CO emissions shall not exceed 10 pounds per ton of glass produced. [District NSR Rule] Federally Enforceable Through Title V Permit
38. The VOC emissions shall not exceed 0.25 pounds per ton of glass produced [District Rule 2201] Federally Enforceable Through Title V Permit
39. The combined SOx emissions from permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4, while producing glass with equal to or greater than 25% by weight color cullet, shall not exceed 0.99 lb/ton of glass produced (over a rolling 30-day average). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
40. The combined SOx emissions from permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4, while producing glass with less than 25% by weight mixed color cullet, shall not exceed 0.81 lb/ton of glass produced (over a rolling 30 day average). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
41. PM10 emissions, except during electrostatic precipitator bypass episodes, shall not exceed 0.49 pound per ton of glass produced. [District NSR Rules 2201 and 4354] Federally Enforceable Through Title V Permit
42. The PM10 emissions, during electrostatic precipitator bypass episodes, shall not exceed 0.71 pound per ton of glass produced. [District Rule 2201] Federally Enforceable Through Title V Permit
43. The electrostatic precipitator may be bypassed only for maintenance and repair. The duration of electrostatic precipitator bypass episodes shall not exceed 144 hours per calendar year [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
44. The PM10 emissions shall not exceed 15,527 pounds during the first calendar quarter, 15,699 pounds during the second calendar quarter, 15,872 pounds during the third calendar quarter and 15,872 pounds during the fourth calendar quarter. These limits are to enforce the PM10 emission reductions granted by certificate number N-161-4. [District NSR Rule] Federally Enforceable Through Title V Permit
45. During furnace idling, NOx emissions shall not exceed 1,408.4 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
46. During furnace idling, CO emissions shall not exceed 352.1 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
47. During furnace idling, VOC emissions shall not exceed 88.0 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
48. During furnace idling, SOx emissions shall not exceed 387.3 pounds in any one day when producing glass with equal to or greater than 25% by weight color cullet. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

49. During furnace idling, SOx emissions shall not exceed 316.9 pounds in any one day when producing glass with less than 25% by weight color cullet. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
50. During furnace idling, PM10 emissions shall not exceed 176.1 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
51. The facility shall not use commercial arsenic as a raw material in the production process. [40 CFR Part 61 Subpart N] Federally Enforceable Through Title V Permit
52. Devices used to measure primary and secondary voltage and current shall be maintained in accordance with the manufacturer's specifications. [40 CFR Part 64] Federally Enforceable Through Title V Permit
53. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit.
54. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR Part 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64.8 [40 CFR Part 64] Federally Enforceable Through Title V Permit
55. The permittee shall comply with the record keeping and reporting requirements of 40 CFR Part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
56. The specific power of the electrostatic precipitator shall be continuously monitored and recorded. [District Rules 2201 and 4354 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
57. A daily record of the hours of operation, the amount of glass pulled from the furnace (in tons), the NOx emissions (in lb/ton of glass pulled), the SOx emissions (in lb/ton of glass pulled), the weight of mixed color mix cullet used, the total amount of cullet used (by weight) and the ratio of the mixed color cullet weight to the total cullet weight (in percent). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
58. The oxygen to fuel ratio shall be continuously monitored and recorded. [District Rule 4354] Federally Enforceable Through Title V Permit
59. The permittee shall maintain daily records of the aggregated NOx emissions and the specific power (in milliwatts/acfm) of the electrostatic precipitator. [District Rules 2520, 9 3.2 and 4354, 9.6.1 and 9.7] Federally Enforceable Through Title V Permit
60. The permittee shall maintain the burner oxygen to fuel ratio records required by this permit. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
61. The permittee shall maintain the specific power records required by this permit. [District Rules 2201, 4354 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
62. A record of the PM10 emissions from this unit, in pounds per calendar quarter, shall be kept. [District Rule 2201] Federally Enforceable Through Title V Permit
63. A record of the cumulative annual electrostatic precipitator bypass duration, in hours, shall be kept. The record shall be updated at least weekly. [District Rule 1070] Federally Enforceable Through Title V Permit
64. 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
65. This Authority to Construct serves as a written Certificate of Conformity with the procedural requirements of 40 CFR 70.7 and 70 8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
66. The permittee may construct or modify the equipment as authorized by this Authority to Construct at this time. Prior to operating with the modifications authorized by this Authority to Construct, the District shall receive an application for an Administrative Permit Amendment. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**  
**DRAFT**

**PERMIT NO:** N-1662-3-14

**LEGAL OWNER OR OPERATOR:** GALLO GLASS COMPANY  
**MAILING ADDRESS:** P O BOX 3044  
MODESTO, CA 95353

**LOCATION:** 605 S SANTA CRUZ AVE  
MODESTO, CA 95354

**EQUIPMENT DESCRIPTION:**

GLASS FURNACE #3 WITH 10 MAXON GAS/OXYGEN BURNERS AND ASSOCIATED FORMING EQUIPMENT (75 MMBTU/HR MAX HEAT CAPACITY). THIS FURNACE IS DUCTED THROUGH A STACK COMMON TO PERMIT UNITS N-1662-1, N-1662-2, N-1662-3 AND N-1662-4 THE FURNACES ARE SERVED BY A SHARED ELECTROSTATIC PRECIPITATOR AND SOX SCRUBBER MODIFICATIONS FOR COMPLIANCE WITH DISTRICT RULE 4354

**CONDITIONS**

1. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201 and Stanislaus County Rule 404] Federally Enforceable Through Title V Permit
2. The furnace shall be fired on natural gas and LPG only [District NSR Rule] Federally Enforceable Through Title V Permit
3. The furnace shall have continuous monitoring systems for NOx and SOx. The monitoring devices shall have continuous recording devices, and all records shall be kept on site [District Rules 1080 and 4354, §5.9] Federally Enforceable Through Title V Permit
4. One continuous emissions monitoring (CEM) system may be used for monitoring oxy-fuel fired furnaces #1, #2, #3, and #4 provided all of the exhaust gases of each of these furnaces are ducted to a common stack, and monitored down stream of the common stack The CEMS shall comply with the requirements of 40 Code of Federal Regulations (CFR) Part 51, 40 CFR Parts 60.7 and 60.13, 40 CFR Part 60 Appendix B (Performance Specifications) and Appendix F (Quality Assurance Procedures) and the applicable sections of Rule 1080 (Stack Monitoring). [District Rule 4354, 5.9 and 6.6.1] Federally Enforceable Through Title V Permit
5. 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

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

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DAVID WARNER, Director of Permit Services  
N-1662-3-14 Oct 14 2011 3:22PM - SCHEDULED Joint Inspection NOT Required

6. 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<sub>x</sub>, CO, and O<sub>2</sub> 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
7. During startups, the permittee shall comply with the requirements of section 5.5 of District Rule 4354. [District Rule 4354, §5.5] Federally Enforceable Through Title V Permit
8. The NO<sub>x</sub> control system shall be in operation as soon as technologically feasible during the startup period to minimize emissions. [District Rule 4354, §5.5.6] Federally Enforceable Through Title V Permit
9. The NO<sub>x</sub> control system shall be in operation whenever technologically feasible during shutdown to minimize emissions [District Rule 4354, §5.6.2] Federally Enforceable Through Title V Permit
10. The NO<sub>x</sub> control system shall be in operation whenever technologically feasible during furnace idling to minimize emissions. [District Rule 4354, §5.7.1] Federally Enforceable Through Title V Permit
11. The duration of shutdown, as measured from the time the furnace operations drop below the idle threshold specified in section 3.17 of District Rule 4354 to when all emissions from the furnace cease, shall not exceed 20 days. [District Rule 4354, §5.6.1] Federally Enforceable Through Title V Permit
12. The specific power of the electrostatic precipitator shall be at least 70 milliwatts/acfm except during the bypass episodes allowed by this permit. [District Rule 2520, §9.3.2] Federally Enforceable Through Title V Permit
13. The oxygen to fuel ratio shall be maintained within the range shown by the most recent source test to result in compliance with the CO and VOC limits of this permit. The acceptable range of the oxygen to fuel ratio shall be established during the initial source test and during each subsequent annual source test. [District Rule 4354] Federally Enforceable Through Title V Permit

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14. 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] Federally Enforceable Through Title V Permit
15. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Stanislaus County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit
16. Source testing to demonstrate compliance with permit conditions and all rules and regulations for both natural gas and LPG shall be conducted at least once every calendar year. NO<sub>x</sub> and CO testing shall be performed using CARB Method 100. VOC testing shall be performed using EPA method 25A. PM<sub>10</sub> testing shall be performed using EPA methods 201 and 202, EPA methods 201a and 202, or CARB methods 501 and 5. SO<sub>x</sub> testing shall be performed using EPA Method 8 and CARB Method 1-100. [District Rules 1081, 2520, §9.3.2; and 4354, 6.4 and 6.5] Federally Enforceable Through Title V Permit
17. Source testing 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. A source test shall be performed within 90 days after this furnace exceeds 100 hours of operation, on LPG, on an annual basis. [District Rule 1081] Federally Enforceable Through Title V Permit
18. Source testing shall be conducted by a CARB-certified source testing contractor. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to source testing. The results of each source test shall be submitted to the District within 60 days after the source test date. [District Rule 1081] Federally Enforceable Through Title V Permit
19. Source test conditions shall be representative of operations equal to or greater than 60 percent of the fuel use capacity for each furnace as stated in the Permit to Operate. [District Rule 4354, §6.4.2] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

20. PM and PM<sub>10</sub> source testing shall be conducted down stream of the electrostatic precipitator in the common stack. Furnaces #1, #2, #3, and #4 must operate simultaneously during source testing unless prior approval is obtained from the District. [District Rule 1081] Federally Enforceable Through Title V Permit
21. An annual Relative Accuracy Test Audit (RATA) shall be performed on the continuous monitoring system as outlined in 40 CFR Part 60 Appendix B. [District Rule 1080] Federally Enforceable Through Title V Permit
22. The owner/operator shall perform a relative accuracy test audit (RATA) as specified by 40 CFR Part 60, Appendix F (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
23. An exceedance of a NO<sub>x</sub> or SO<sub>x</sub> emission limit as indicated by the CEMS shall be reported by the operator to the APCO within 24 hours. The notification shall include 1) name and location of the facility, 2) identification of furnace(s) causing the exceedances, 3) calculation of actual NO<sub>x</sub>, CO and VOC emissions, and 4) corrective actions and schedules to complete the work. [District Rule 1080 and Stanislaus County Rule 108] Federally Enforceable Through Title V Permit
24. The operator shall notify the APCO no later than one hour after the detection of a breakdown of the CEMS. The operator shall inform the APCO of the intent to shut down the CEMS at least 24 hours prior to the event. [District Rule 1100] Federally Enforceable Through Title V Permit
25. The permittee shall submit a written report including copies of any Equipment Breakdown reports and/or pertinent variance decisions 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 (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and a negative declaration when no excess emissions occurred. [District Rule 1080] Federally Enforceable Through Title V Permit
26. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
27. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
28. Cylinder gas audits (GGAs) of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy and total 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
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201, Stanislaus County Rule 404, District Rule 4202 and Stanislaus County Rule 405. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
30. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4801 and Stanislaus County Rule 407. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
31. The requirements of District Rule 4301 and Stanislaus County Rule 408 were determined to not apply to this unit because the unit does not utilize indirect heat transfer. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

32. The requirements of 40 CFR Part 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 has 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
33. The requirements of 40 CFR Part 61, Subpart N were determined to not apply to this unit because the unit does not use commercial arsenic. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
34. The amount of glass produced shall not exceed 352.1 tons during any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
35. NO<sub>x</sub> emissions shall not exceed 2.48 pounds per ton of glass produced. This performance based limit is to enforce the NO<sub>x</sub> emission reductions granted by certificate number N-56-2. [District NSR Rule] Federally Enforceable Through Title V Permit
36. Except during furnace idling, shutdown, and startup, the aggregated NO<sub>x</sub> emissions shall not exceed 3.6 lb-NO<sub>x</sub> per ton of glass produced (based on a block 24-hour average). Aggregated NO<sub>x</sub> emissions are the NO<sub>x</sub> emissions as measured at the common stack divided by the sum of the daily amount of glass produced by permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4. [District Rule 4354, 9.0 and 9.6] Federally Enforceable Through Title V Permit
37. CO emissions shall not exceed 0.01 pounds per ton of glass produced. This performance based limit is to enforce the CO emission reductions granted by certificate number N-106-3. [District NSR Rule] Federally Enforceable Through Title V Permit
38. The VOC emissions shall not exceed 0.25 pounds per ton of glass produced. [District Rule 2201] Federally Enforceable Through Title V Permit
39. The combined SO<sub>x</sub> emissions from permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4, while producing glass with equal to or greater than 25% by weight color cullet, shall not exceed 0.99 lb/ton of glass produced (over a rolling 30 day average). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
40. The combined SO<sub>x</sub> emissions from permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4, while producing glass with less than 25% by weight mixed color cullet, shall not exceed 0.81 lb/ton of glass produced (over a rolling 30 day average). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
41. PM<sub>10</sub> emissions, except during electrostatic precipitator bypass episodes, shall not exceed 0.49 pound per ton of glass produced. [District NSR Rules 2201 and 4354] Federally Enforceable Through Title V Permit
42. The PM<sub>10</sub> emissions, during electrostatic precipitator bypass episodes, shall not exceed 0.71 pound per ton of glass produced. [District Rule 2201] Federally Enforceable Through Title V Permit
43. The electrostatic precipitator may be bypassed only for maintenance and repair. The duration of electrostatic precipitator bypass episodes shall not exceed 144 hours per calendar year. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
44. The PM<sub>10</sub> emissions shall not exceed 15,527 pounds during the first calendar quarter, 15,699 pounds during the second calendar quarter, 15,872 pounds during the third calendar quarter and 15,872 pounds during the fourth calendar quarter. These limits are to enforce the PM<sub>10</sub> emission reductions granted by certificate number N-161-4. [District NSR Rule] Federally Enforceable Through Title V Permit
45. During furnace idling, NO<sub>x</sub> emissions shall not exceed 1,408.4 pounds in any one day [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
46. During furnace idling, CO emissions shall not exceed 352.1 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
47. During furnace idling, VOC emissions shall not exceed 88.0 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
48. During furnace idling, SO<sub>x</sub> emissions shall not exceed 387.3 pounds in any one day when producing glass with equal to or greater than 25% by weight color cullet. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

49. During furnace idling, SOx emissions shall not exceed 316.9 pounds in any one day when producing glass with less than 25% by weight color cullet. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
50. During furnace idling, PM10 emissions shall not exceed 176.1 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
51. The facility shall not use commercial arsenic as a raw material in the production process. [40 CFR Part 61 Subpart N] Federally Enforceable Through Title V Permit
52. Devices used to measure primary and secondary voltage and current shall be maintained in accordance with the manufacturer's specifications. [40 CFR Part 64] Federally Enforceable Through Title V Permit
53. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
54. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR Part 64 7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64 8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
55. The permittee shall comply with the record keeping and reporting requirements of 40 CFR Part 64.9 [40 CFR Part 64] Federally Enforceable Through Title V Permit
56. The specific power of the electrostatic precipitator shall be continuously monitored and recorded. [District Rules 2201 and 4354 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
57. A daily record of the hours of operation, the amount of glass pulled from the furnace (in tons), the NOx emissions (in lb/ton of glass pulled), the SOx emissions (in lb/ton of glass pulled), the weight of mixed color mix cullet used, the total amount of cullet used (by weight) and the ratio of the mixed color cullet weight to the total cullet weight (in percent). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
58. The oxygen to fuel ratio shall be continuously monitored and recorded. [District Rule 4354] Federally Enforceable Through Title V Permit
59. The permittee shall maintain daily records of the aggregated NOx emissions and the specific power (in milliwatts/acfm) of the electrostatic precipitator. [District Rules 2520, 9.3 2 and 4354, 9.6.1 and 9.7] Federally Enforceable Through Title V Permit
60. The permittee shall maintain the burner oxygen to fuel ratio records required by this permit. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
61. The permittee shall maintain the specific power records required by this permit. [District Rules 2201, 4354 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
62. A record of the PM10 emissions from this unit, in pounds per calendar quarter, shall be kept. [District Rule 2201] Federally Enforceable Through Title V Permit
63. A record of the cumulative annual electrostatic precipitator bypass duration, in hours, shall be kept. The record shall be updated at least weekly. [District Rule 1070] Federally Enforceable Through Title V Permit
64. 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
65. This Authority to Construct serves as a written Certificate of Conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70 6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
66. The permittee may construct or modify the equipment as authorized by this Authority to Construct at this time. Prior to operating with the modifications authorized by this Authority to Construct, the District shall receive an application for an Administrative Permit Amendment. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT  
**DRAFT**

PERMIT NO: N-1662-4-14

LEGAL OWNER OR OPERATOR: GALLÓ GLASS COMPANY  
MAILING ADDRESS: P O BOX 3044  
MODESTO, CA 95353

LOCATION: 605 S SANTA CRUZ AVE  
MODESTO, CA 95354

**EQUIPMENT DESCRIPTION:**

GLASS FURNACE #4 WITH 12 MAXON GAS/OXYGEN BURNERS AND ASSOCIATED FORMING EQUIPMENT (90 MMBTU/HR MAX HEAT CAPACITY) THIS FURNACE IS DUCTED THROUGH A STACK COMMON TO PERMIT UNITS N-1662-1, N-1662-2, N-1662-3 AND N-1662-4 THE FURNACES ARE SERVED BY A SHARED ELECTROSTATIC PRECIPITATOR AND SOX SCRUBBER MODIFICATIONS FOR COMPLIANCE WITH DISTRICT RULE 4354

**CONDITIONS**

1. Particulate matter emissions shall not exceed 0.1 grain/dscf in concentration. [District Rule 4201 and Stanislaus County Rule 404] Federally Enforceable Through Title V Permit
2. The furnace shall be fired on natural gas and LPG only. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The furnace shall have continuous monitoring systems for NOx and SOx. The monitoring devices shall have continuous recording devices, and all records shall be kept on site. [District Rules 1080 and 4354, §5.9] Federally Enforceable Through Title V Permit
4. One continuous emissions monitoring (CEM) system may be used for monitoring oxy-fuel fired furnaces #1, #2, #3, and #4 provided all of the exhaust gases of each of these furnaces are ducted to a common stack, and monitored down stream of the common stack. The CEMS shall comply with the requirements of 40 Code of Federal Regulations (CFR) Part 51, 40 CFR Parts 60.7 and 60.13, 40 CFR Part 60 Appendix B (Performance Specifications) and Appendix F (Quality Assurance Procedures) and the applicable sections of Rule 1080 (Stack Monitoring). [District Rule 4354, 5.9 and 6.1] Federally Enforceable Through Title V Permit
5. 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

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

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DAVID WARNER, Director of Permit Services  
N-1662-4-14 Oct 14 2011 3:22PM - SCHOONHOM Joint Inspection NOT Required

6. 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<sub>x</sub>, CO, and O<sub>2</sub> 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
7. During startups, the permittee shall comply with the requirements of section 5.5 of District Rule 4354. [District Rule 4354, §5.5] Federally Enforceable Through Title V Permit
8. The NO<sub>x</sub> control system shall be in operation as soon as technologically feasible during the startup period to minimize emissions. [District Rule 4354, §5.5.6] Federally Enforceable Through Title V Permit
9. The NO<sub>x</sub> control system shall be in operation whenever technologically feasible during shutdown to minimize emissions. [District Rule 4354, §5.6.2] Federally Enforceable Through Title V Permit
10. The NO<sub>x</sub> control system shall be in operation whenever technologically feasible during furnace idling to minimize emissions [District Rule 4354, §5.7.1] Federally Enforceable Through Title V Permit
11. The duration of shutdown, as measured from the time the furnace operations drop below the idle threshold specified in section 3-17 of District Rule 4354 to when all emissions from the furnace cease, shall not exceed 20 days. [District Rule 4354, §5.6.1] Federally Enforceable Through Title V Permit
12. The total startup time, as defined in section 3.22 of District Rule 4354 (Glass Melting Furnaces), shall not exceed 18 days. [District Rule 4354, §5.2.1] Federally Enforceable Through Title V Permit
13. The specific power of the electrostatic precipitator shall be at least 70 milliwatts/acfm except during the bypass episodes allowed by this permit. [District Rule 2520, §9.3.2] Federally Enforceable Through Title V Permit
14. The oxygen to fuel ratio shall be maintained within the range shown by the most recent source test to result in compliance with the CO and VOC limits of this permit. The acceptable range of the oxygen to fuel ratio shall be established during the initial source test and during each subsequent annual source test. [District Rule 4354]
15. 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] Federally Enforceable Through Title V Permit
16. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Stanislaus County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit
17. Source testing to demonstrate compliance with permit conditions and all rules and regulations for both natural gas and LPG shall be conducted at least once every calendar year. NO<sub>x</sub> and CO testing shall be performed using CARB Method 100. VOC testing shall be performed using EPA method 25A. PM<sub>10</sub> testing shall be performed using EPA methods 201 and 202, EPA methods 201a and 202, or CARB methods 501 and 5. SO<sub>x</sub> testing shall be performed using EPA Method 8 and CARB Method 1-100 [District Rules 1081; 2520, §9.3.2; and 4354, 6.4 and 6.5] Federally Enforceable Through Title V Permit
18. Source testing 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. A source test shall be performed within 90 days after this furnace exceeds 100 hours of operation, on LPG, on an annual basis. [District Rule 1081] Federally Enforceable Through Title V Permit
19. Source testing shall be conducted by a CARB-certified source testing contractor. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to source testing. The results of each source test shall be submitted to the District within 60 days after the source test date. [District Rule 1081] Federally Enforceable Through Title V Permit
20. Source test conditions shall be representative of operations equal to or greater than 60 percent of the fuel use capacity for each furnace as stated in the Permit to Operate. [District Rule 4354, §6.4.2] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

21. PM and PM10 source testing shall be conducted down stream of the electrostatic precipitator in the common stack. Furnaces #1, #2, #3, and #4 must operate simultaneously during source testing unless prior approval is obtained from the District. [District Rule 1081] Federally Enforceable Through Title V Permit
22. An annual Relative Accuracy Test Audit (RATA) shall be performed on the continuous monitoring system as outlined in 40 CFR Part 60 Appendix B. [District Rule 1080] Federally Enforceable Through Title V Permit
23. 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
24. An exceedance of a NOx or SOx emission limit as indicated by the CEMS shall be reported by the operator to the APCO within 24 hours. The notification shall include 1) name and location of the facility, 2) identification of furnace(s) causing the exceedances, 3) calculation of actual NOx, CO and VOC emissions, and 4) corrective actions and schedules to complete the work. [District Rule 1080 and Stanislaus County Rule 108] Federally Enforceable Through Title V Permit
25. The operator shall notify the APCO no later than one hour after the detection of a breakdown of the CEMS. The operator shall inform the APCO of the intent to shut down the CEMS at least 24 hours prior to the event. [District Rule 1100] Federally Enforceable Through Title V Permit
26. The permittee shall submit a written report including copies of any Equipment Breakdown reports and/or pertinent variance decisions 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 (if known), corrective actions taken and preventive measures adopted, averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments, and a negative declaration when no excess emissions occurred [District Rule 1080] Federally Enforceable Through Title V Permit
27. Upon notice by the District that the facility's CEM system is not providing polling data, the facility may continue to operate without providing automated data for a maximum of 30 days per calendar year provided the CEM data is sent to the District by a District-approved alternative method. [District Rule 1080] Federally Enforceable Through Title V Permit
28. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080] Federally Enforceable Through Title V Permit
29. Cylinder gas audits (GGAs) of continuous emission monitors shall be conducted quarterly, except during quarters in which relative accuracy and total 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
30. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201, Stanislaus County Rule 404, District Rule 4202 and Stanislaus County Rule 405. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
31. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4801 and Stanislaus County Rule 407. A permit shield is granted from these requirements [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
32. The requirements of District Rule 4301 and Stanislaus County Rule 408 were determined to not apply to this unit because the unit does not utilize indirect heat transfer. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

33. The requirements of 40 CFR Part 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 has 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
34. The requirements of 40 CFR Part 61, Subpart N were determined to not apply to this unit because the unit does not use commercial arsenic. A permit shield is granted from these requirements. [District Rule 2520, §13.2] Federally Enforceable Through Title V Permit
35. The amount of glass produced shall not exceed 637.9 tons during any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
36. NOx emissions shall not exceed 2.95 pounds per ton of glass produced. This performance based limit is to enforce the NOx emission reductions granted by certificate number N-107-2. [District NSR Rule] Federally Enforceable Through Title V Permit
37. Except during furnace idling, shutdown, and startup, the aggregated NOx emissions shall not exceed 3.6 lb-NOx per ton of glass produced (based on a block 24-hour average). Aggregated NOx emissions are the NOx emissions as measured at the common stack divided by the sum of the daily amount of glass produced by permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4. [District Rule 4354, 9.0 and 9.6] Federally Enforceable Through Title V Permit
38. CO emissions shall not exceed 1.0 pounds per ton of glass produced. [District NSR Rule] Federally Enforceable Through Title V Permit
39. The VOC emissions shall not exceed 0.25 pounds per ton of glass produced. [District Rule 2201] Federally Enforceable Through Title V Permit
40. The combined SOx emissions from permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4, while producing glass with equal to or greater than 25% by weight color cullet, shall not exceed 0.99 lb/ton of glass produced (over a rolling 30 day average). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
41. The combined SOx emissions from permit units N-1662-1, N-1662-2, N-1662-3 and N-1662-4, while producing glass with less than 25% by weight mixed color cullet, shall not exceed 0.81 lb/ton of glass produced (over a rolling 30 day average). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
42. PM10 emissions, except during electrostatic precipitator bypass episodes, shall not exceed 0.49 pound per ton of glass produced. [District NSR Rules 2201 and 4354] Federally Enforceable Through Title V Permit
43. The PM10 emissions, during electrostatic precipitator bypass episodes, shall not exceed 0.71 pound per ton of glass produced. [District Rule 2201] Federally Enforceable Through Title V Permit
44. The electrostatic precipitator may be bypassed only for maintenance and repair. The duration of electrostatic precipitator bypass episodes shall not exceed 144 hours per calendar year. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
45. The PM10 emissions shall not exceed 28,132 pounds during the first calendar quarter, 28,445 pounds during the second calendar quarter, 28,757 pounds during the third calendar quarter and 28,758 pounds during the fourth calendar quarter. These limits are to enforce the PM10 emission reductions granted by certificate number N-161-4. [District NSR Rule] Federally Enforceable Through Title V Permit
46. During furnace idling, NOx emissions shall not exceed 1,888.0 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
47. During furnace idling, CO emissions shall not exceed 637.9 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
48. During furnace idling, VOC emissions shall not exceed 159.5 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
49. During furnace idling, SOx emissions shall not exceed 701.7 pounds in any one day when producing glass with equal to or greater than 25% by weight color cullet. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit

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CONDITIONS CONTINUE ON NEXT PAGE

50. During furnace idling, SO<sub>x</sub> emissions shall not exceed 574.1 pounds in any one day when producing glass with less than 25% by weight color cullet. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
51. During furnace idling, PM<sub>10</sub> emissions shall not exceed 319.0 pounds in any one day. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
52. The facility shall not use commercial arsenic as a raw material in the production process. [40 CFR Part 61 Subpart N] Federally Enforceable Through Title V Permit
53. Devices used to measure primary and secondary voltage and current shall be maintained in accordance with the manufacturer's specifications. [40 CFR Part 64] Federally Enforceable Through Title V Permit
54. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR Part 64.7. [40 CFR Part 64] Federally Enforceable Through Title V Permit
55. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR Part 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR Part 64.8. [40 CFR Part 64] Federally Enforceable Through Title V Permit
56. The permittee shall comply with the record keeping and reporting requirements of 40 CFR Part 64.9. [40 CFR Part 64] Federally Enforceable Through Title V Permit
57. The specific power of the electrostatic precipitator shall be continuously monitored and recorded. [District Rules 2201 and 4354 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
58. A daily record of the hours of operation, the amount of glass pulled from the furnace (in tons), the NO<sub>x</sub> emissions (in lb/ton of glass pulled), the SO<sub>x</sub> emissions (in lb/ton of glass pulled), the weight of mixed color mix cullet used, the total amount of cullet used (by weight) and the ratio of the mixed color cullet weight to the total cullet weight (in percent). [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
59. The oxygen to fuel ratio shall be continuously monitored and recorded. [District Rule 4354] Federally Enforceable Through Title V Permit
60. The permittee shall maintain daily records of the aggregated NO<sub>x</sub> emissions and the specific power (in milliwatts/acfm) of the electrostatic precipitator. [District Rules 2520, 9.3.2 and 4354, 9.6.1 and 9.7] Federally Enforceable Through Title V Permit
61. The permittee shall maintain the burner oxygen to fuel ratio records required by this permit. [District Rules 2201 and 4354] Federally Enforceable Through Title V Permit
62. The permittee shall maintain the specific power records required by this permit [District Rules 2201, 4354 and 40 CFR Part 64] Federally Enforceable Through Title V Permit
63. A record of the PM<sub>10</sub> emissions from this unit, in pounds per calendar quarter, shall be kept. [District Rule 2201] Federally Enforceable Through Title V Permit
64. A record of the cumulative annual electrostatic precipitator bypass duration, in hours, shall be kept. The record shall be updated at least weekly. [District Rule 1070] Federally Enforceable Through Title V Permit
65. 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
66. This Authority to Construct serves as a written Certificate of Conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
67. The permittee may construct or modify the equipment as authorized by this Authority to Construct at this time. Prior to operating with the modifications authorized by this Authority to Construct, the District shall receive an application for an Administrative Permit Amendment. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit

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**Appendix D**  
**Detailed Facility List**

**Detailed Facility Report**  
For Facility=1662  
Sorted by Facility Name and Permit Number

GALLO GLASS COMPANY 305 S SANTA CRUZ AVE MODESTO, CA 95354	FAC # N-1662 STATUS A TELEPHONE 2093418311	TYPE T166V TOXIC ID 10427	EXPIRE ONLY 06/30/2007 AREA 5 INSP DATE 06/12
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-1662-1-12	75 MMBtu/hr	3020-02 H	1	1,030.00	1,030.00	A	GLASS FURNACE #1 WITH 10 MAXON GAS/OXYGEN BURNERS AND ASSOCIATED FORMING EQUIPMENT (75 MMBTU/HR MAX HEAT CAPACITY). THIS FURNACE IS DUCTED THROUGH A STACK COMMON TO PERMIT UNITS N-1662-1, N-1662-2, N-1662-3 AND N-1662-4. THE FURNACES ARE SERVED BY A SHARED ELECTROSTATIC PRECIPITATOR AND SOX SCRUBBER.
N-1662-2-13	75 MMBtu/hr	3020-02 H	1	1,030.00	1,030.00	A	GLASS FURNACE #2 WITH 10 MAXON GAS/OXYGEN BURNERS AND ASSOCIATED FORMING EQUIPMENT (75 MMBTU/HR MAX HEAT CAPACITY). THIS FURNACE IS DUCTED THROUGH A STACK COMMON TO PERMIT UNITS N-1662-1, N-1662-2, N-1662-3 AND N-1662-4. THE FURNACES ARE SERVED BY A SHARED ELECTROSTATIC PRECIPITATOR AND SOX SCRUBBER.
N-1662-3-13	75 MMBtu/hr	3020-02 H	1	1,030.00	1,030.00	A	GLASS FURNACE #3 WITH 10 MAXON GAS/OXYGEN BURNERS AND ASSOCIATED FORMING EQUIPMENT (75 MMBTU/HR MAX HEAT CAPACITY). THIS FURNACE IS DUCTED THROUGH A STACK COMMON TO PERMIT UNITS N-1662-1, N-1662-2, N-1662-3 AND N-1662-4. THE FURNACES ARE SERVED BY A SHARED ELECTROSTATIC PRECIPITATOR AND SOX SCRUBBER.
N-1662-4-13	90 MMBtu/hr	3020-02 H	1	1,030.00	1,030.00	A	GLASS FURNACE #4 WITH 12 MAXON GAS/OXYGEN BURNERS AND ASSOCIATED FORMING EQUIPMENT (90 MMBTU/HR MAX HEAT CAPACITY). THIS FURNACE IS DUCTED THROUGH A STACK COMMON TO PERMIT UNITS N-1662-1, N-1662-2, N-1662-3 AND N-1662-4. THE FURNACES ARE SERVED BY A SHARED ELECTROSTATIC PRECIPITATOR AND SOX SCRUBBER.
N-1662-5-2	40 HP	3020-02 B	1	117.00	117.00	A	BATCH PLANT #1 AND MANUFACTURING EQUIPMENT
N-1662-6-5	423.2 hp	3020-01 F	1	607.00	607.00	A	CULLET PROCESSING OPERATION SERVED BY 1 HAMMER KING MODEL 1500 CRUSHER, 1 REMCO GLASS MAX CRUSHER, 4 MOGENSEN MODEL 205X SIZING SCREENS, 9 CONVEYORS, 1 ELEVATOR, 1 CULLET STOCKPILE, 2 HOMAN & LAWRENCE STORAGE SILOS, 1 CYCLONE AND 3 BAGHOUSES
N-1662-7-2	60 HP	3020-01 C	1	197.00	197.00	A	GLASS MOLD PLANT AND MANUFACTURING EQUIPMENT

**Detailed Facility Report**  
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-1662-8-9	90,000 KBTU	3020-02 H	1	1,030 00	1,030 00	A	ELECTRIC GLASS MELTING FURNACE (FURNACE #5) AND A RAW MATERIAL HANDLING AND MIXING SYSTEM THE RAW MATERIAL HANDLING AND MIXING SYSTEM CONSISTS OF WEIGHED BATCH CONVEYORS 1, 2 AND 3 SERVED BY A FLEX-KLEEN 100BVTS-25111BAGHOUSE (DC-50), A WEIGHED BATCH ELEVATOR SERVED BY A FLEX-KLEEN 100BVTS-25111BAGHOUSE (DC-50) AND A FLEXKLEEN 58BVBS-1611G BAGHOUSE (DC-51), A CHECK SCALE SERVED BY A FLEXKLEEN 58BVBS-1611G BAGHOUSE (DC-51), A 3 CUBIC YARD MIXER, A BAD BATCH SURGE HOPPER, A BAD BATCH STORAGE BIN AND A MIXED BATCH SURGE HOPPER ALL SERVED BY A FLEX-KLEEN 58BVBS-1611G BAGHOUSE (DC-52), A MIXED BATCH ELEVATOR AND A MIXED BATCH TRANSFER CONVEYOR SERVED BY A FLEX-KLEEN 58BVBS09111G BAGHOUSE (DC-53), FURNACE STORAGE BIN 8-E SERVED BY A FLEX-KLEEN 58BVBS-911G BAGHOUSE (DC-8E), FURNACE STORAGE BIN 8-W SERVED BY A FLEX-KLEEN 58BVBS-9111G BAGHOUSE (DC-8W), ELEVATOR AND A GULLET STORAGE BIN SERVED BY A M1KROPUL 581-8-20 BAGHOUSE (DC-9), AN ENCLOSED SURGE BIN, A BATCH CHARGER, AND A FURNACE CHARGE CONVEYOR. THE FURNACE ALSO INCLUDES SIXTEEN 2 85 MMBTU/HR NATURAL GAS FIRED EMERGENCY BURNERS
N-1662-10-2	971 1 HP	3020-10 E	1	602.00	602 00	A	971 1 BHP CATERPILLAR MODEL D349TTA-SCA SERIAL #61P485 TURBOCHARGED AND AFTERCOOLED DIESEL FIRED EMERGENCY IC ENGINE SERVING A 724 KW ELECTRICAL GENERATOR
N-1662-11-2	971 1 HP	3020-10 E	1	602 00	602 00	A	971.1 BHP CATERPILLAR MODEL D349TTA-SCA SERIAL #61P486 TURBOCHARGED AND AFTERCOOLED DIESEL FIRED EMERGENCY IC ENGINE SERVING A 724 KW ELECTRICAL GENERATOR
N-1662-12-2	971 1 HP	3020-10 E	1	602 00	602.00	A	971 1 BHP CATERPILLAR MODEL D349TTA-SCA SERIAL #61P549 TURBOCHARGED AND AFTERCOOLED DIESEL FIRED EMERGENCY IC ENGINE SERVING A 724 KW ELECTRICAL GENERATOR
N-1662-13-4	95 BHP NATURAL GAS FIRED IC ENGINE	3020-10 A	1	80 00	80 00	D	DORMANT 95 HP CATERPILLAR MODEL 3304NG SERIAL #37Y00679 NATURAL GAS FIRED EMERGENCY IC ENGINE SERVING A BLOCK COOLING FAN
N-1662-14-6	394 HP	3020-01 E	1	412 00	412.00	A	BATCH PLANT #2 SERVING GLASS MELTING FURNACES 4 AND 5 (PERMITS N- 1662-4 AND N-1662-8 RESPECTIVELY) AND THE GULLET PROCESSING OPERATION (N-1662-6) THE PLANT CONSISTS OF 7 RAW MATERIAL RECEIVING PITS, 7 UNDERGROUND RAW MATERIAL STORAGE SILOS AND VARIOUS CONVEYORS AND ELEVATORS EXCEPT FOR THE RECEIVING PITS, THE OPERATION IS SERVED BY A MIKROPUL 64S820 DUST COLLECTOR (DC-1), A M1KROPUL 130-8-20 DUST COLLECTOR (DC-3), A MIKROPUL 144S-820C DUST COLLECTOR (DC-6), A MIKROPUL SQ100-101 DUST COLLECTOR (DC-10) AND A MIKROPUL 144S-820C (DC-39) DUST COLLECTOR THE RECEIVING PITS UTILIZE CHOKE FEEDING

### Detailed Facility Report

For Facility=1662

Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-1662-15-0	17,200 KBTU/hr Vaporizer Heater	3020-02 H	1	1,030 00	1,030 00	A	17 2 MMBTU/HR HEX MODEL VFTU-342-41860 DRIOX VAPORIZER HEATER WITH TWO (2) COEN MODEL SDAF-10 LOW-NOX BURNERS (RATED AT 8 6 MMBTU/HR EACH)

Number of Facilities Reported 1