San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

OCT 19 2011

Chris Miller
Pilkington North America, Inc
500 E Louise Ave
Lathrop, CA 95330

Re: Notice of Preliminary Decision - Title V Permit Renewal
District Facility # N-477
Project # N-1070793

Dear Mr. Miller.

Enclosed for your review and comment is the District's analysis of the application to renew the Federally Mandated Operating Permit for Pilkington North America, Inc for its Flat Glass Manufacturing plant at 500 E Louise Ave in Lathrop, 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 Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,

David Warner
Director of Permit Services

Attachments
C Tim Bush, Permit Services Engineer

Seyed Sadredin
Executive Director/Air Pollution Control Officer

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

Central Region (Main Office)
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Fresno, CA 93726 0244
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San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

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-477
Project # N-1070793

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 Pilkington North America, Inc for its Flat Glass Manufacturing plant at 500 E Louise Ave in Lathrop, 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 Jim Swaney, Permit Services Manager, at (559) 230-5900

Sincerely,

David Warner
Director of Permit Services

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AIR POLLUTION CONTROL DISTRICT

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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-477
Project # N-1070793

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 Pilkington North America, Inc for its Flat Glass Manufacturing plant at 500 E Louise Ave in Lathrop, 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 Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,

David Warner
Director of Permit Services

Attachments
C: Tim Bush, Permit Services Engineer

Seyed Sadredin
Executive Director/Air Pollution Control Officer

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Stockton Record

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 Pilkington North America, Inc for its Flat Glass Manufacturing plant at 500 E Louise Ave in Lathrop, California.

The District's analysis of the legal and factual basis for this proposed action, project #N-1070793, is available for public inspection at 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. Jim Swaney, Permit Services Manager, at (559) 230-5900 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, 1990 E. GETTYSBURG AVE, FRESNO, CALIFORNIA 93726-0244.

SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT

Proposed Title V Permit Renewal Evaluation
Pilkington North America, Inc
N-477

TABLE OF CONTENTS

I. PROPOSAL 2
II. FACILITY LOCATION 3
III. EQUIPMENT LISTING 3
IV. GENERAL PERMIT TEMPLATE USAGE 3
V SCOPE OF EPA AND PUBLIC REVIEW 3
VI. FEDERALLY ENFORCEABLE REQUIREMENTS 4
VII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE 6
VIII. PERMIT REQUIREMENTS 7
IX. PERMIT SHIELD 63
X. PERMIT CONDITIONS 63
XI. ATTACHMENTS 63

A. DRAFT RENEWED TITLE V OPERATING PERMIT
B. PREVIOUS TITLE V OPERATING PERMIT
C. DETAILED FACILITY LIST

TITLE V PERMIT RENEWAL EVALUATION

Flat Glass Manufacturer

Engineer: Tim Bush
Date: October 5, 2011

Facility Number: N-477
Facility Name: Pilkington North America, Inc
Mailing Address: 500 E Louise Ave
Lathrop, CA 95330

Contact Name: Chris Miller
Phone: (209) 858-6227

Responsible Official: Chris Miller
Title: Plant Manager

Project # : N-1070793
Deemed Complete: March 20, 2007

I. PROPOSAL

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

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

The facility requests to implement ATC N-477-10-9 to replace the existing burners with low NO_X burners. The renewed PTO will include this modification prior to finalizing this Title V renewal.

II. FACILITY LOCATION

Pilkington North America, Inc is located at 500 E Louise Ave Lathrop, CA.

III. EQUIPMENT LISTING

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

IV. GENERAL PERMIT TEMPLATE USAGE

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

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

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

V. SCOPE OF EPA AND PUBLIC REVIEW

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

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

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

Conditions 1 through 40 of the requirements for permit unit N-477-0-3.

VI. FEDERALLY ENFORCEABLE REQUIREMENTS

A. Rules Updated

- District Rule 2020, Exemptions
  (amended March 21, 2002 ⇒ amended August 18, 2011) The most recent amendment to the District rule does not affect the applicability of template UM-03.

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

- District Rule 4101, Visible Emissions
  (amended November 15, 2001 ⇒ February 17, 2005)

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

- District Rule 4601, Architectural Coatings (amended December 17, 2009)

- District Rule 8011, General Requirements
  (Adopted November 15, 2001 ⇒ August 19, 2004)

- District Rule 8021, Construction, Demolition, Excavation, Extraction and Other Earthmoving Activities
  (Adopted November 15, 2001 ⇒ August 19, 2004)

- District Rule 8031, Bulk Materials
  (Adopted November 15, 2001 ⇒ August 19, 2004)

- District Rule 8041, Carryout and Trackout
  (Adopted November 15, 2001 ⇒ August 19, 2004)

- District Rule 8051, Open Areas
  (Adopted November 15, 2001 ⇒ August 19, 2004)

- District Rule 8061, Paved and Unpaved Roads
  (Adopted November 15, 2001 ⇒ August 19, 2004)

- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas
  (Adopted November 15, 2001 ⇒ September 16, 2004)

B. Rules Removed

No Rules were removed during this project.

C. Rules Added

- District Rule 4311, Flares (adopted June 20, 2002)
- District Rule 4702, Internal Combustion Engines Phase 2 (adopted August 18, 2011)
- 17 CCR 93115, California Code of Regulations, Title 17, Division 3, Chapter 1, Subchapter 7.5, Measure 93115 (adopted December 8, 2004)
- 40 CFR 60, Subpart IIII, New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines
- 40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines

D. Rules Not Updated

- District Rule 1100, Equipment Breakdown (amended December 17,1992)
- District Rule 1160, Emission Statements (adopted November 18, 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 December 17, 1992)
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos
- 40 CFR 52.21, Prevention of Significant Deterioration
- 40 CFR 60, Subpart CC, Standard of Performance for Glass Manufacturing Plants (Amended October 17, 2000)
- 40 CFR 61, Subpart N, National Emission Standards Inorganic Arsenic Emissions from Glass Manufacturing Plants (Amended October 17, 2000)
- 40 CFR 64, Compliance Assurance Monitoring (CAM)
- 40 CFR Part 82, Subpart F, Stratospheric Ozone

VII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

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

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

A. Rules Added

There were no new District Rules that are not federally enforceable added to the permit

B. Rules Not Updated

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

Condition 6 of permit units -49-2 and condition 42 of permit unit -0-3 are based on District Rule 4102 and will therefore not be discussed any further.

VIII. PERMIT REQUIREMENTS

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

A. District Rule 2020 - Exemptions

District Rule 2020 lists equipment which are specifically exempt from obtaining permits and specifies recordkeeping requirements to verify such exemptions The amendments to this rule do not have any affect on current permit requirements and will therefore not be addressed in this evaluation.

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

District Rule 2201 has been amended since this facility's initial Title V permit was issued. This Title V permit renewal does not constitute a modification per section 3.26, defined as an action including at least one of the following items:

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

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

N-477-10-11: 200 MMBTU/HR GLASS MELTING FURNACE WITH ECLIPSE COMBUSTION MODEL WRSP10.XX LOW NOX BURNERS AND 3R NOX EMISSIONS CONTROL SYSTEM

The facility is proposing to include ATC N-477-10-9 to to replace the existing burners with new eclipse combustion model wrsp10.xx low nox burners for Rule 4354 compliance. The renewed PTO will be based on this ATC.

Condition 1 from the ATC has been removed. This condition includes District Rule 2520 requirements for modifying their Title V permit. The facility has complied with these requirements

Conditions 2 and 3 from the ATC are included are included as conditions 1 and 2 of the requirements for this permit unit.

Condition 4 from the ATC has been included as condition 42 of the requirements of the facility wide permit

Conditions 5 through 8 from the ATC are included as conditions 3 through 6 of the requirements for this permit unit.

Conditions 9 through 35 from the ATC are included as conditions 8 through 34of the requirements for this permit unit.

Condition 36 from the ATC has been removed. This condition refers to an initial source test period that has expired.

Conditions 37 through 61 from the ATC are included as conditions 35 through 59 of the requirements for this permit unit.

Condition 7 has been added to the requirements for this permit for District Rule 4354 compliance

C. District Rule 2520 - Federally Mandated Operating Permits

Greenhouse Gas (GHG) Requirements:

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

D. District Rule 4101 - Visible Emissions

Section 5 0 prohibits the discharge of any air contaminant for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker in shade as that designated as No. 1 on the Ringelmann Chart; or is of such opacity as to obscure an observer's view to a degree equal to or greater than the smoke described in Section 5.1 of Rule 4101. Condition 22 of permit unit -0-3 ensures compliance.

E. District Rule 4311 - Flares

The purpose of this rule is to limit the emissions of volatile organic compounds (VOC), oxides of nitrogen (NOx), and sulfur oxides (SOx) from the operation of flares.

Section 4.0 Exemptions.

The flare in this project does not qualify for any of the exemptions in this rule

Section 5 0 Requirements

Section 5.1 states that flares that are permitted to operate only during an emergency are not subject to the requirements of Sections 5.6 and 5.7.

Permit unit N-477-44 is not an emergency flare. Therefore, the requirements of Sections 5.6 and 5 7 will be applicable

Section 5 2 requires a flame to be present at all times when combustible gases are vented through the flare

Condition 5 on draft PTO N-477-44-3 assures compliance

Section 5.3 requires the flare outlet to be equipped with an automatic ignition system, or, to operate with a pilot flame present at all times when combustible

gases are vented through the flare, except during purge periods for automatic-ignition equipped flares

Condition 6 on draft PTO N-477-44-3 assures compliance.

Except for flares equipped with a flow-sensing ignition system, Section 5.4 requires the flare be equipped with a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present to be installed and operated.

Condition 7 on draft PTO N-477-44-3 assures compliance.

Section 5 5 requires flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging.

Section 5.6 requires open flares (air-assisted, steam-assisted, or non-assisted) in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18

According to Pilkington, the flare is an enclosed flare; therefore, Section 5 6 and 40 CFR 60 18 are not applicable.

Section 5.7 applies to ground level enclosed flares to meet the follow emissions standards:

Type of Flare and Heat Release Rate in MMBtu/hr	VOC (lb/MMBtu)	NOx (lb/MMBtu)
Without Steam-assist		
<10 MMBtu	0.0051	0.0952
10-100 MMBtu	0.0027	0.1330
>100 MMBtu	0 0013	0 5240
With Steam-assist		
All	0.14 as TOG	0.068

Condition 4 on draft PTO N-477-44-3 assures compliance.

6.1 Recordkeeping

The following records shall be maintained, retained on-site for a minimum of five years, and made available to the APCO, ARB, and EPA upon request:

Condition 17 on draft PTO N-477-44-3 assures compliance.

6.1.2 states that a copy of the source testing result conducted pursuant to Section 6.4.2.

Section 6 4.2 requires the operator of ground-level enclosed flares to conduct source testing at least once every 12 months to demonstrate compliance with Section 5.7. The operator shall submit a copy of the testing protocol to the APCO at least 30 days in advance of the scheduled testing. The operator shall submit the source test results not later than 45 days after completion of the source testing.

Conditions 8 and 9 on draft PTO N-477-44-3 assure compliance.

Section 6.2 1 requires that on and after July 1, 2011, the operator of a flare subject to flare minimization plans pursuant to Section 5.8 of this rule shall notify the APCO of an unplanned flaring event within 24 hours after the start of the next business day or within 24 hours of their discovery, which ever occurs first. The notification shall include the flare source identification, the start date and time, and the end date and time.

Condition condition 15 on draft PTO N-477-44-3 assures compliance.

Section 6.2.2 requires that on and after July 1, 2012, and annually thereafter, the operator of a flare subject to flare minimization plans pursuant to Section 5.8 shall submit an annual report to the APCO that summarizes all Reportable Flaring Events as defined in Section 3.0 that occurred during the previous 12 month period. The report shall be submitted within 30 days following the end of the twelve month period of the previous year

Condition 16 on draft PTO N-477-44-3 assures compliance.

F. District Rule 4354 - <u>Glass Melting Furnaces</u>

The purpose of this rule is to limit the emissions of nitrogen oxides (NO_X), carbon monoxide (CO), volatile organic compounds (VOC), oxides of sulfur (SO_x), and particulate matter (PM_{10}) from glass melting furnaces.

Comparison of the latest amended version (amended May 19, 2011) of District Rule 4354 and the SIP approved version, adopted September 16, 2010.

District Rule 4354 Requirements	SIP Version September 16, 2010	Current Version May 19, 2011
APPLICABILITY		
The provisions of this rule shall apply to any glass melting furnace	X	X
EXEMPTIONS		
Except for Section 6 8, the provisions of this rule shall not apply to electric glass melting furnaces where all the heat is supplied by an electric current from electrodes submerged in the molten glass, except that heat may be supplied by other fuels for start-up when the furnace contains no molten glass	X	X
Except for Section 6 8, the provisions of this rule shall not apply to any glass melting furnace that is part of a stationary source with a total potential to emit, for all processes, less than ten (10 0) tons per year of NOx and less than ten (10 0) tons per year of VOC	X	X
Except for Section 6 8, the emission limits of Sections 5 3 and 5 4 and the monitoring requirements of Sections 5 9 3 and 5 9 4 shall not apply to a glass melting furnace that meets all of the following conditions • The furnace has permitted glass production capacity less than five (5) tons per day, and • The actual total NOx emissions for the facility are less than eight (8) tons per year, and • The actual total VOC emissions for the facility are less than eight (8) tons per year	X	X
The emission limits in Tables 1 through 4 shall not apply during periods of start-up, shutdown, or idling, provided the operator complies with the applicable requirements of Sections 5 5, 5 6, 5 7 and 6 7	X	X
Except for Section 6 8, the provisions of this rule shall not apply to any glass melting furnace that is part of a stationary source with a total potential to emit, for all processes, of less than ten (10 0) tons per year of NOx and less than ten (10 0) tons per year of VOC	X	
REQUIREMENTS		

District Rule 4354 Requirements	SIP Version September 16, 2010	Current Version May 19, 2011
Except as specified in Section 4 4, the operator of any glass melting furnace shall not operate a furnace in such a manner that results in NOx-emissions exceeding the limits in Table 1 The deadlines to comply with the emission limits are specified in Section 7 0	X	X
Tier 2 NOx limit Container Glass 4 0 pounds NOx per ton glass produced in a Block 24-hour average Fiberglass 4 0 pounds NOx per ton glass produced in a Block 24-hour average Flat Glass 9 2 pounds NOx per ton glass produced in a Block 24-hour average 7 0 pounds NOx per ton glass produced in a Rolling 30-day average	X	X

District Rule 4354 Requirements	SIP Version September 16, 2010	Current Version May 19, 2011
Tier 3 NOx limit Container Glass 1 5 pounds NOx per ton glass produced in a Rolling 30-day average Fiberglass 1 3 pounds NOx per ton glass produced in a Block 24-hour average, not subject to California Public Resources Code Section 19511 3 0 pounds NOx per ton glass produced in a Block 24-hour average, subject to California Public Resources Code Section 19511 Flat Glass 5 5 pounds NOx per ton glass produced in a Block 24-hour average 5 0 pounds NOx per ton glass produced in a Rolling 30-day average	X	X
Tier 4 NOx limit (Standard Option) Container Glass Not available Fiberglass Not available Flat Glass 3 7 pounds NOx per ton glass produced in a Block 24-hour average 3 2 pounds NOx per ton glass produced in a Rolling 30-day average	X	X

District Rule 4354 Requirements	SIP Version September 16, 2010	Current Version May 19, 2011
Tier 4 NOx limit (Enhanced Option) Container Glass Not available Fiberglass Not available Flat Glass 3 4 pounds NOx per ton glass produced in a Block 24-hour average 2 9 pounds NOx per ton glass produced in a Rolling 30-day average	X	X
Instead of each furnace individually meeting the applicable Table 1 Tier 2 NOx limit, an operator may choose to meet the Tier 2 NOx limit for multiple furnaces or furnace batteries by considering the multiple furnaces or furnace battery as a single unit An operator choosing this option shall conform to the provisions of Sections 9 1 through 9 6 2 for Tier 2 NOx	X	X
Instead of each furnace individually meeting the applicable Table 1 Tier 3 NOx limit, an operator of multiple furnaces or a furnace battery may choose to meet the applicable emission limit by considering the multiple furnaces or furnace battery as a single unit An operator choosing this option shall conform to the provisions of Sections 9 6 through 9 7 8 5 for Tier 3 NOx	X	X

District Rule 4354 Requirements	SIP Version September 16, 2010	Current Version May 19, 2011
CO limit Container Glass or Fiberglass 100% air fired furnace 300 ppmv Oxygen-assisted or Oxy-fuel furnace 1 0 lb/ton glass produced Flat Glass 100% air fired furnace 300 ppmv Oxygen-assisted or Oxy-fuel furnace 0 9 lb/ton glass produced	X	X
VOC limit Container Glass or Fiberglass 100% air fired furnace 20 ppmv Oxygen-assisted or Oxy-fuel furnace 0 25 lb/ton glass produced Flat Glass 100% air fired furnace 20 ppmv Oxygen-assisted or Oxy-fuel furnace 0 10 lb/ton glass produced	X	X

<table>
<tr><th>District Rule 4354 Requirements</th><th>SIP Version
September 16, 2010</th><th>Current Version
May 19, 2011</th></tr>
<tr><td>On and after January 1, 2009, instead of each furnace individually meeting the applicable CO or VOC or both emission limit in Table 2, an operator may choose to meet the CO or VOC or both emission limit for multiple furnaces or furnace batteries by considering the multiple furnaces or furnace battery as a single unit An operator choosing this option shall conform to the provisions of Sections 9 6 through 9 7 8 5 for CO emissions or VOC emissions or both</td><td>X</td><td>X</td></tr>
<tr><td>In order to limit SOx emissions, all glass melting furnaces shall fire on PUC-quality natural gas, commercial propane, or LPG on and after March 31, 2008 Liquid fuel may be used as backup fuel or standby fuel provided the liquid fuel contains no more than 15 ppm of sulfur and the furnace exhaust is controlled by a SOx emission control system with control system efficiency of 50% or greater If a furnace meets the applicable Table 3 SOx limit while firing on backup fuel or standby fuel, the 50% SOx emission control system efficiency requirement shall not apply</td><td>X</td><td>X</td></tr>
<tr><td>Effective on and after January 1, 2011, except as specified in Section 4 4, each furnace shall meet the applicable SOx emission limit from Table 3
<table>
<tr><th colspan="3">Table 3 - SOx Emission Limits in pounds SOx per ton glass produced</th></tr>
<tr><th>Type of Glass Produced</th><th>Firing Technology</th><th>Effective on and after January 1, 2011</th></tr>
<tr><td rowspan="2">Container Glass</td><td>Oxy-fuel furnaces and ≥ 25 0% of total cullet is mixed color cullet</td><td>1 1 [B]</td></tr>
<tr><td>All other container glass furnaces</td><td>0 90 [B]</td></tr>
<tr><td>Fiberglass</td><td>All technologies</td><td>0 90 [E]</td></tr>
<tr><td>Flat Glass</td><td>All technologies</td><td>1 7 [A]
1 2 [B]</td></tr>
</table>
[A] Block 24-hour average
[B] Rolling 30-day average
[E] Rolling 24-hour average</td><td>X</td><td>X</td></tr>
<tr><td>The amount of mixed color cullet used shall be determined as a rolling 30-day average</td><td>X</td><td>X</td></tr>
<tr><td>Instead of each furnace individually meeting the applicable SOx limit in Table 3, an operator may choose to meet the SOx limit for multiple furnaces or furnace batteries by considering the multiple furnaces or furnace battery as a single unit An operator choosing this option shall conform to the provisions of Sections 9 6 through 9 7 8 5 for SOx emissions</td><td>X</td><td>X</td></tr>
</table>

<table>
<tr><th>District Rule 4354 Requirements</th><th>SIP Version
September 16, 2010</th><th>Current Version
May 19, 2011</th></tr>
<tr><td>PM10 Limit

Effective on and after January 1, 2011, except as specified in Section 4 4, each furnace shall meet the applicable PM10 emission limit from Table 4, where total PM10 includes both filterable PM10 and condensable PM10

<table>
<tr><th colspan="3">Table 4 - PM10 Emission Limits in pounds total PM10 per ton glass produced
Block 24-hour average</th></tr>
<tr><th>Type of Glass Produced</th><th>Firing Technology</th><th>Effective on and after January 1, 2011</th></tr>
<tr><td>Container Glass</td><td>All technologies</td><td>0 50</td></tr>
<tr><td>Fiberglass</td><td>All technologies</td><td>0 50</td></tr>
<tr><td>Flat Glass</td><td>All technologies</td><td>0 70</td></tr>
</table>

Instead of each furnace individually meeting the applicable PM10 limit in Table 4, an operator may choose to meet the PM10 limit for multiple furnaces or furnace batteries by considering the multiple furnaces or furnace battery as a single unit An operator choosing this option shall conform to the provisions of Sections 9 6 through 9 7 8 5 for PM10 emissions</td><td>X</td><td>X</td></tr>
</table>

District Rule 4354 Requirements	SIP Version September 16, 2010	Current Version May 19, 2011
Start-up Requirements The operator shall submit a request for a start-up exemption to the APCO, ARB, and EPA in conjunction with or in advance of an application for Authority to Construct (ATC) associated with a furnace rebuild The operator shall submit to the APCO, ARB, and EPA any information deemed necessary by the APCO, ARB, or EPA to determine the appropriate length of start-up exemption This information shall include, but is not limited to • A detailed list of activities to be performed during start-up, and a reasonable explanation for the length of time needed to complete each activity, and • A description of the material process flow rates, system operating parameters, etc , that the operator plans to evaluate during the process optimization, • Clearly identified control technologies or strategies to be utilized, • Explicit description of what physical conditions prevail during start-up periods that prevent the controls from being effective, and • Reasonably precise estimate as to when physical conditions will have reached a state that allows for the effective control of emissions Start up exemptions shall begin upon activation of the primary combustion system The actual length of the start-up exemption shall be determined by the APCO, ARB, and EPA at the time of the ATC issuance, but in any case, it shall not exceed the amount of time specified in Table 5 The approval for the startup exemption shall be in writing from each agency	X	X

Table 5 – Maximum Start-up Time

Type of Furnace	Maximum Start-up NOx control system that does not meet Section 5 5 4 2 provisions	Maximum Start-up NOx control system that meets Section 5 5 4 2 provisions
Container glass	70 days	100 days
Fiber-glass	40 days	105 days
Flat glass	104 days	208 days

District Rule 4354 Requirements	SIP Version September 16, 2010	Current Version May 19, 2011
Start-up Requirements continued Maximum start-up time for furnaces with NOx controls that do not meet any of the conditions of 5 5 4 2 is listed in the center column of Table 5 Maximum start-up time column as shown in the rightmost column of Table 5 shall be the maximum startup time if the NOx control system meets one or more of the following conditions • Is innovative, • Is not in common use, • Is not readily available from a commercial supplier, • Is funded as original research by a public agency During start-up period, the stoichiometric ratio of the primary furnace combustion system shall not exceed 5% excess oxygen, as calculated from the actual fuel and oxidant flow measurements for combustion in the glass melting furnace The emission control system shall be in operation as soon as technologically feasible during start-up to minimize emissions Notifications shall be performed and records kept in accordance with Section 6 7	X	X
Shutdown Requirements The duration of shutdown, as measured from the time the furnace operations drop below the idle threshold specified in Section 3 17 to when all emissions from the furnace cease, shall not exceed 20 days The emission control system shall be in operation whenever technologically feasible during shutdown to minimize emissions Notifications shall be performed and records kept in accordance with Section 6 7	X	X

District Rule 4354 Requirements	SIP Version September 16, 2010	Current Version May 19, 2011
Idling Requirements The emission control system shall be in operation whenever technologically feasible during idling to minimize emissions Emissions of NOx, CO, VOC, SOx, and PM10 during idling shall not exceed the amount as calculated using the following equation $E_{i,\max} = E_i * Capacity$ Where $E_{i\,max}$ = maximum daily emission of pollutant *i* during idling, in pounds pollutant per day, E_i = Applicable emission limit from Table 1, Table 2, Table 3, or Table 4 for pollutant *i*, in pounds pollutant per ton glass produced, *Capacity* = Furnace's permitted glass production capacity in tons glass produced per day Notifications shall be performed and records kept in accordancewith Section 6 7	X	X
Compliance Determination Con't Any source testing result, CEMS or alternate emission monitoring method averaged value exceeding the applicable emission limits in Section 5 1, 5 2, 5 3 or 5 4 shall constitute a violation of the rule	X	X
MONITORING PROVISIONS		
NOx The operator of any glass melting furnace shall implement a NOx CEMS that is approved, in writing, by the APCO and EPA, and that meets the requirements of Sections 6 6 For a furnace battery, a single CEMS may be used to determine the total NOx emissions from all the furnaces provided the emission measurements are made at the common stack	X	X

District Rule 4354 Requirements	SIP Version September 16, 2010	Current Version May 19, 2011
CO and VOC For each furnace subject to Table 2 CO limits, the operator shall implement a CO CEMS that meets the requirements of Section 6 6 1, and that is approved, in writing, by the APCO For each furnace subject to Table 2 VOC limits, the operator shall implement a VOC CEMS that meets the requirements of Section 6 6 1, and that is approved, in writing, by the APCO In lieu of installing and operating a CEMS for CO or CEMS for VOC or both, an operator may propose key system operating parameter(s) and frequency of monitoring and recording • The alternate monitoring shall meet the requirements of Section 6 6 2 • The operator shall obtain approval of the APCO and EPA for the specific key system operating parameter(s), monitoring frequency, and recording frequency used by the operator to monitor CO/VOC emissions • The operator shall monitor approved key system operating parameter(s) at the approved monitoring frequency to ensure compliance with the emission limit(s) during periods of emission-producing activities • Acceptable range(s) for key system operating parameter(s) shall be demonstrated through source test For the operator of multiple furnaces or a furnace battery utilizing Section 5 2 2 to comply with CO emission limits or VOC emission limits or both, a single parametric monitoring arrangement or a single CEMS may be used to determine the CO emissions or VOC emissions or both from all the furnaces provided that the multiple furnaces/furnace battery is subject to the provisions of Sections 9 6 through 9 7 8 5 and • For units using a CEMS - the emission measurements are made at the common stack • For units using a parametric monitoring arrangement – the key system operating parameters are representative of the combined exhaust stream	X	X

District Rule 4354 Requirements	SIP Version September 16, 2010	Current Version May 19, 2011
SOx Section 5 9 3 shall be in effect on and after January 1, 2011 For each furnace subject to Section 5 3, the operator shall implement a SOx CEMS that meets the requirements of Section 6 6 1 and that is approved, in writing, by the APCO and EPA In lieu of installing and operating a CEMS for SOx, an operator may propose key system operating parameter(s) and frequency of monitoring and recording • The alternate monitoring shall meet the requirements of Section 6 6 2 • The operator shall obtain approval of the APCO and EPA for the specific key system operating parameter(s), monitoring frequency, and recording frequency used by the operator to monitor SOx emissions • Acceptable range(s) for key system operating parameter(s) shall be demonstrated through source test For the operator of multiple furnaces or a furnace battery utilizing Section 5 3 4 to comply with SOx emission limits, a single parametric monitoring arrangement or a single CEMS may be used to determine the SOx emissions from all the furnaces provided that the multiple furnaces/furnace battery is subject to the provisions of Sections 9 6 through 9 7 8 5 and • For units using a CEMS - the emission measurements are made at the common stack • For units using a parametric monitoring arrangement – the key system operating parameters are representative of the combined exhaust stream	X	X

District Rule 4354 Requirements	SIP Version September 16, 2010	Current Version May 19, 2011
PM10 Section 5 9 4 shall be in effect on and after January 1, 2011 The operator shall propose key system operating parameter(s) and frequency of monitoring and recording • The parametric monitoring shall meet the requirements of Section 6 6 2 • The operator shall obtain approval of the APCO and EPA for the specific key system operating parameter(s), monitoring frequency, and recording frequency used by the operator to monitor PM10 emissions • The operator shall monitor approved key system operating parameter(s) at the approved monitoring frequency to ensure compliance with the emission limit(s) during periods of emission-producing activities • Acceptable range(s) for key system operating parameter(s) shall be demonstrated through source test In lieu of parametric monitoring, the operator may elect to implement a PM10 CEMS that meets the requirements of Section 6 6 1, and that is approved, in writing, by the APCO and EPA For the operator of multiple furnaces or a furnace battery utilizing Section 5 4 2 to comply with PM10 emission limits, a single parametric monitoring arrangement or a single CEMS may be used to determine the total PM10 emissions from all the furnaces provided that the multiple furnaces/furnace battery is subject to the provisions of Sections 9 6 through 9 7 8 5 and • For units using a CEMS - the emission measurements are made at the common stack • For units using a parametric monitoring arrangement – the key system operating parameters are representative of the combined exhaust stream	X	X

District Rule 4354 Requirements	SIP Version September 16, 2010	Current Version May 19, 2011
Routine Maintenance of Add-On Emission Control Systems During routine maintenance of an add-on emission control system, an operator of a glass melting furnace subject to the provisions of Sections 5 1 through 5 4 is exempt from these limits if • Routine maintenance in each calendar year does not exceed 144 hours total for all add-on controls, and • Routine maintenance is conducted in a manner consistent with good air pollution control practices for minimizing emissions	X	X
ADMINISTRATIVE REQUIREMENTS		

District Rule 4354 Requirements	SIP Version September 16, 2010	Current Version May 19, 2011
Permitted Glass Production Capacity Each glass melting furnace's PTO shall include the furnace's permitted glass production capacity in units of tons of glass pulled per day as a permit condition Operators shall maintain daily records of the following items • Total hours of operation • NOx emission rate in lb/ton glass pulled • CO emission rate in units matching Table 2, if a CEMS is used • VOC emission rate in units matching Table 2, if a CEMS is used • SOx emission rate in lb/ton glass pulled, if a CEMS is used • PM10 emission rate in lb/ton glass pulled, if a CEMS is used • For container glass furnaces that are oxy-fuel fired 6 3 1 8 1 The weight of mixed color mix cullet used, 6 3 1 8 2 The total amount of cullet used by weight, and 6 3 1 8 3 The ratio, expressed in percent, of mixed color mix weight to total cullet weight For pollutants monitored using an approved parametric monitoring arrangement, operators shall record the operating values of the key system operating parameters at the approved recording frequency Operators shall maintain daily records of the following items • Source tests and source test results • The acceptable range for each approved key system operating • parameter, as established during source test • Maintenance and repair • Malfunction The operator shall retain records specified in Sections 6 3 1 through 6 3 3 for a period of five years, make the records available on site during normal business hours to the APCO, ARB, or EPA, and submit the records to the APCO, ARB, or EPA upon request	X	X

District Rule 4354 Requirements	SIP Version September 16, 2010	Current Version May 19, 2011
Compliance Source Testing Each glass melting furnace or a furnace battery shall be source tested at least once every calendar year, but not more than every 18 months and not sooner than every 6 months to demonstrate compliance with the applicable requirements of Section 5 0 Sources exempt under Section 4 3 are not required to source test for the exempted pollutants Source test conditions shall be representative of normal operations, but not less than 60 percent of the permitted glass production capacity During source testing in accordance with Section 6 4 1, the arithmetic average of three (3) 30-consecutive-minute test runs shall be used to determine compliance with NOx, CO, VOC, and SOx emission limits	X	X
Compliance Source Testing For operators using alternative monitoring systems, during the source test, the operator shall monitor and record, at a minimum, all operating data for each parameter, fresh feed rate, and flue gas flow rate and submit this data with the test report During source testing in accordance with Section 6 4 1, the arithmetic average of three (3) 60-consecutive-minute test runs shall be used to determine compliance with PM10 emission limits For a given pollutant, if two of the three runs individually demonstrate emissions above the applicable limit, the test cannot be used to demonstrate compliance for the furnace, even if the averaged emissions of all three test runs is less than the applicable limit	X	X

District Rule 4354 Requirements	SIP Version September 16, 2010	Current Version May 19, 2011
Test Methods Oxides of nitrogen – EPA Method 7E, EPA Method 19, or ARB Method 100 Carbon monoxide (ppmv) – EPA Method 10, or ARB Method 100 Volatile Organic Compound (ppmv) – EPA Method 25A expressed in terms of carbon or ARB Method 100 EPA Method 18 or ARB Method 422 shall be used to determine emissions of exempt compounds Stack gas velocity and volumetric flow rate – EPA Method 2 Stack gas oxygen, carbon dioxide, excess air, and dry molecular weight – EPA Method 3 or 3A, or ARB Method 100 The SOx emission control system efficiency shall be determined using the following • EPA Method 2 for measuring flow rates, and • EPA Method 6C or EPA Method 8 for measuring total SOx (expressed as SO_2) concentrations at the inlet and outlet of the control device • The SOx emission control system efficiency shall be calculated using the following equation % Control Efficiency = [($C_{SO2\ inlet} - C_{SO2\ outlet}$) / $C_{SO2\ inlet}$] X 100 Where $C_{SO2\ inlet}$ = concentration of SOx (expressed as SO_2) at the inlet side of the SOx emission control system, in lb/dscf $C_{SO2\ outlet}$ = concentration of SOx (expressed as SO_2) at the outlet side of the SOx emission control system, in lb/dscf	X	X

District Rule 4354 Requirements	SIP Version September 16, 2010	Current Version May 19, 2011

Test Methods
 	
Oxides of sulfur – EPA Method 6C, EPA Method 8, or ARB Method 100
 	
Sulfur content of liquid fuel – American Society for Testing and Materials (ASTM) D 6428-99 or ASTM D 5453-99
 	
PM10 Test Methods
 	
• Filterable PM10 emissions - EPA Method 5, EPA Method 201, or EPA Method 201A An operator choosing EPA Method 5 shall count all PM collected as PM10
• Condensable PM 10 emissions - EPA Method 202 with the following procedures
  • Purge the impinger with dry nitrogen for one hour The one-hour purge with dry nitrogen shall be performed as soon possible after the final leak check of the system
  • Neutralize the inorganic portion to a pH of 7 0 Use the procedure, "Determination of NH4 Retained in Sample by Titration" described in Method 202 to neutralize the sulfuric acid Neutralizing the inorganic portion to a pH of 7 0 determines the un-neutralized sulfuric acid content of the sample without over-correcting the amount of neutralized sulfate in the inorganic portion
  • Evaporate the last 1 ml of the inorganic fraction by air drying following evaporation of the bulk of the impinger water in a 105 degrees C oven as described in the first sentence of the Method 202 section titled "Inorganic Fraction Weight Determination "
	X	X

District Rule 4354 Requirements	SIP Version September 16, 2010	Current Version May 19, 2011
Emissions Monitoring Systems An approved CEMS shall comply with all of the following requirements • Code of Federal Regulations Title 40 (40 CFR) Part 51, • 40 CFR Part 60 7 (Notification and Record Keeping), • 40 CFR Part 60 13 (Monitoring Requirements), • 40 CFR Part 60 Appendix B (Performance Specifications), • 40 CFR Part 60 Appendix F (Quality Assurance Procedures), and • Applicable sections of Rule 1080 (Stack Monitoring) An approved alternate emissions monitoring method shall be capable of determining the furnace emissions on an hourly basis and shall comply with the following requirements • 40 CFR 64 (Compliance Assurance Monitoring), and • 40 CFR 60 13 (Monitoring Requirements)	X	X

District Rule 4354 Requirements	SIP Version September 16, 2010	Current Version May 19, 2011
Notifications and Records for Start-up, Shutdown, and Idling The operator of any glass melting furnace claiming an exemption under Section 4 4 shall notify the APCO by telephone at least 24 hours before initiating idling, shutdown, or start-up The notification shall include date and time of the start of the exempt operation, reason for performing the operation, and an estimated completion date The operator shall notify the APCO by telephone within 24 hours after completion of the start-up, shutdown, or idling The operator claiming exemption under Section 4 4 shall maintain all operating records/support documentation necessary to support claim of exemption Records/support documentation required by Section 6 7 3 shall meet the following requirements • The records/support documentation shall be retained on-site for five years • The records/support documentation shall be made available to the APCO, ARB, or EPA during normal business hours • The records/support documentation shall be submitted to the APCO, ARB, or EPA upon request	X	X
Records for Exempt Furnaces An operator claiming exemption under Section 4 1, Section 4 2, or Section 4 3 shall maintain records/documentation necessary to support claim of exemption Records/support documentation specified in Section 6 8 1 shall meet the following requirements • The records/documentation shall be retained on site for five years • The records/documentation shall be made available to the APCO, ARB, or EPA during normal business hours • The records/documentation shall be submitted to the APCO, ARB, or EPA upon request	X	X

COMPLIANCE SCHEDULE

Container Glass and Fiberglass Furnaces For container glass/fiberglass furnaces, the operator must submit a completed Authority to Construct (ATC) application, if needed, by June 1, 2012, and be in full compliance with the Section 5 1 Table 1 Tier 3 NOx limits by January 1, 2014 For a container glass/fiberglass furnace that is not meeting the applicable SOx limit in Section 5 3 Table 3 on January 1, 2009, the operator must submit a completed ATC application, if needed, by June 1, 2009 and be in full compliance with the applicable SOx emission limit by January 1, 2011 For a container glass/fiberglass furnace that is not meeting the applicable PM10 emission limit in Section 5 4 Table 4 on January 1, 2009, the operator must submit a completed ATC application, if needed, by June 1, 2009, and be in full compliance with the applicable PM10 limit by January 1, 2011 Flat Glass Furnaces The operator must submit a completed ATC application, if needed, by June 1, 2009, and be in full compliance with the Section 5 1 Table 1 Tier 3 NOx limits by January 1, 2011 By January 1, 2011, operators of flat glass furnaces shall submit, in writing, a letter signed by a responsible official The letter shall include the following information • Name and address of the facility, • A statement declaring whether the furnace will meet the Section 5 1 Table 1 Tier 4 standard option or the Tier 4 enhanced option, • The technology expected to be utilized to meet the stated Section 5 1 Table 1 Tier 4 option, and • Signature of responsible official with the person's printed name and title Operators utilizing the Section 5 1 Table 1 Tier 4 standard option shall submit a completed ATC application, if needed, by June 1, 2012, and be in full compliance with the Section 5 1 Table 1 Tier 4 standard option NOx limits by January 1, 2014 Operators utilizing the Section 5 1 Table 1 Tier 4 enhanced option shall submit a completed ATC application, if needed, by June 1, 2016, and be in full compliance with the Section 5 1 Table 1 Tier 4 standard option NOx limits by January 1, 2018	X	X

Flat Glass Furnaces Con't For a furnace that is not meeting the applicable SOx emission limit in Section 5 3 Table 3 on January 1, 2009, the operator must submit a completed ATC application, if needed, by June 1, 2009 and be in full compliance with the applicable SOx emission limit by January 1, 2011 For a furnace that is not meeting the applicable PM10 emission limit in Section 5 4 Table 4 on January 1, 2009, the operator must submit a completed ATC application, if needed, by June 1, 2009, and be in full compliance with the applicable PM10 limit by January 1, 2011	X	X
Flat Glass Operator By November 1, 2010, operators of flat glass furnaces shall submit, in writing, a letter signed by a responsible official The letter shall include the following information • Name and address of the facility, • A statement declaring the furnace will meet the Tier 4 early enhanced option, Section 5 1 Table 1 Tier 4 NOx limit, Section 5 3 Table 3 SOx limit, and Section 5 4 Table 4 PM10 limit by January 1, 2014 or by the next furnace rebuild schedule, whichever is earlier, • The technologies expected to be utilized to meet the stated Early Enhanced Option, Section 5 1 Table 1, Tier 3 SOx limit, and Section 5 4 Table 4 PM10 limit, and • Signature of responsible official with the person's printed name and title By June 1, 2012, the operator shall submit a completed ATC application, if needed, for any furnace modifications to comply with the applicable NOx, SOx and PM10 emission limits Full compliance with the Section 5 1 Table 1 Tier 4 early enhanced option NOx limits, Section 5 3 Table 3 SOx limit, and Section 5 4 Table 4 PM10 limit by January 1, 2014 or by the next furnace rebuild, whichever is earlier	X	X
CALCULATIONS		

The pollutant mass emission rate in lb/hr shall be converted to lb pollutant/ton of glass pulled according to the following equation $$lb\ emitted\ /\ ton\ of\ glass\ pulled = \frac{lb\ /\ hr\ emitted}{Pull\ rate\ in\ tons\ /\ hr}$$ 100% air-fuel fired furnaces which have concentration limits in ppmv values shall be subject to the CO and VOC emission limits specified in Section 5 2 These limits are referenced at dry stack gas conditions and 8 0 percent by volume of stack oxygen The CO and VOC emission concentrations shall be corrected to 8 0 percent oxygen by using the equation below, or an equivalent correction method that is approved, in writing, by each of the following APCO, ARB, and EPA $$(ppmv\ VOC)_{corrected} = \frac{12.9\%}{20.9\% - (\%O2)_{measured}} \times (ppmv\ VOC)_{measured}$$ $$(ppmv\ CO)_{corrected} = \frac{12.9\%}{20.9\% - (\%O2)_{measured}} \times (ppmv\ CO)_{measured}$$ The operator of a oxy-fuel fired furnace, oxygen-assisted combustion furnace, or a furnace utilizing any fuel oxidants other than 100% ambient air, shall submit to the APCO, ARB, and EPA for approval any methodologies and data that will be used to calculate emission rates for NOx, CO, and VOC if the methods are different than specified in Sections 8 1 or 8 2 Unless the operator received prior written approval from APCO, ARB, and EPA of all the calculation methods to be used that are different than specified in Sections 8 1 or 8 2, compliance with the emissions limits cannot be fully demonstrated, and it shall be deemed to be a violation of the rule	X	X
FURNACE BATTERY OR MULTIPLE FURNACES CONTROL		

As an alternative to complying with Section 5 1 Tier 2 NOx emission limits, the operator of a furnace battery or multiple furnaces shall operate the furnace battery or multiple furnaces pursuant to Sections 9 2 through 9 6 2 Any violation of the requirements below shall be considered a violation of this rule, and a violation of the aggregated emission limits shall constitute a violation for each furnace for the entire averaging time Any operator who elects to comply with Section 9 0 in lieu of complying with the requirements of Section 5 1 Tier 2 NOx emission limits shall be subject to a 10% environmental air quality benefit pursuant to 40 CFR 51 Subpart U NOx emissions shall be at least 10% lower than the limits specified in Section 5 1 Tier 2 The daily aggregate NOx emissions, as determined in accordance with Section 9 6, shall be no greater than those obtained by controlling each furnace to comply individually with the limits in Section 5 1 Tier 2 The operator shall conduct source testing of the furnace according to the requirements of Section 6 4 Determination of Compliance • The operator shall calculate and record on a daily basis the aggregated emissions of furnaces which are subject to Section 9 2 Such records shall be kept for a period of five years The operator shall notify the APCO of any violation of Section 9 3 within 24 hours The notification shall include • name and location of the facility, • identification of furnace(s) causing the exceedances, • the cause and the expected duration of exceedances, • calculation of actual NOx, CO and VOC emissions, • corrective actions and schedules to complete the work • The operator shall demonstrate compliance with the requirements of Section 9 3 through CEMS data or approved alternate emission monitoring methods, and source test results	X	X

Determination of Aggregated Emissions • The aggregated emissions for a given pollutant of a furnace battery are the emissions for the pollutant as measured at the common stack divided by the sum of the daily glass pulled from each furnace • The aggregated emissions of multiple furnaces for a given pollutant are the sum of each furnace's daily emissions for the pollutant divided by the sum of the daily glass pulled from each furnace	X	X
Multiple Furnaces/Furnace Battery Requirements for Tier 3 NOx, CO, VOC, SOx and PM10 Control An operator of either furnace battery or multiple furnaces that elects to meet the emission limits for the furnaces through the requirements of this section shall be subject to a 10% air quality benefit in accordance with 40 CFR Part 51 Subpart U The maximum emission rate shall be at least 10% lower than the applicable limit specified in Section 5 1 (Tier 3 NOx), Section 5 2 (CO and VOC), Section 5 3 (SOx), or Section 5 4 (PM10), for each pollutant subject to this option		X

Multiple Furnaces/Furnace Battery Requirements for Tier 3 NOx, CO, VOC, SOx and PM10 Control Con't The operator of a furnace battery or multiple furnaces choosing the alternate emission limit shall operate the furnace battery or multiple furnaces according to Sections 9 7 3 through 9 7 8 5 Only those pollutants with emissions that are averaged across multiple furnaces/furnace battery are subject to all subparts of Section 9 7 Pollutant emissions that are not averaged across multiple furnaces/furnace battery are subject to the applicable emission limits of Sections 5 1 through 5 4 The daily aggregate emissions, as determined in accordance with Section 9 6, shall be no greater than those obtained by controlling each furnace to comply individually with applicable emission limits, less the 10% air quality benefit The operator shall demonstrate compliance with Section 9 7 3 through source test results and monitoring by either CEMS or approves alternate emission monitoring methods The operator shall conduct source testing of the furnaces according to the requirements of Section 6 4 Records shall be kept in accordance with the applicable provisions of Section 6 0 Any violation of the aggregated emission limits shall constitute a violation of the rule for each furnace for the entire averaging period The operator shall notify the APCO of any violation of Section 9 7 3 within 24 hours The notification shall include • Name and location of the facility, • Identification of furnace(s) causing the violation, • The cause and the expected duration of violation, • Calculation of actual NOx, CO, VOC, SOx, and PM10 emissions during the violation, • Corrective actions and schedules to complete the work		X

The provisions of this rule shall apply to any glass melting furnace

The applicable emissions requirements from Sections 5 0 through 5 4 are summarized in the following table

N-477-10-8

	NOx (lb/ton)		SOx (lb/ton)		CO (lb/ton)	VOC (lb/ton)	PM10 (lb/ton)
	Block 24 hr average	Rolling 30 day average	Block 24 hr average	Rolling 30 day average	Rolling 3 hour average	Rolling 3 hour average	Block 24 hour average
Current Limits	9 2	7 0	Fired on NG or LPG	Fired on NG or LPG	0 9	0 10	-
Future Limits	3 4	2 9	1 7	1 2	-	-	0 7
Conditions Ensuring Compliance	7, 19 through 27		5,6		7, 24	7, 25	Tier 4 early enhance option

The following requirements for start-up, shutdown, and idling are summarized from Sections 5 5 through 5 7

- The operator shall submit a request for a start-up exemption to the APCO, ARB, and EPA in conjunction with or in advance of an application for Authority to Construct (ATC) associated with a furnace rebuild

- The operator shall submit to the APCO, ARB, and EPA any information deemed necessary by the APCO, ARB, or EPA to determine the appropriate length of start-up exemption

- The actual length of the start-up exemption shall be determined by the APCO, ARB, and EPA at the time of the ATC issuance

- The duration of shutdown, as measured from the time the furnace operations drop below the idle threshold specified in Section 3 17 to when all emissions from the furnace cease, shall not exceed 20 days

- The emission control system shall be in operation as soon as technologically feasible during idling to minimize emissions

- Notifications shall be performed and records kept in accordance with Section 6 7

Condition 61 was added to assure compliance with the requirements of this rule

The following requirements for monitoring are summarized from Section 5 9

- The operator of any glass melting furnace shall implement a NOx CEMS that is approved, in writing, by the APCO and EPA, and that meets the requirements of Section 6 6
- The operator shall implement a CO, VOC and SOx CEMS that meets the requirements of Section 6 6 1, and that is approved, in writing, by the APCO
- In lieu of installing and operating a CEMS for CO or CEMS for VOC or both, an operator may propose key system operating parameter(s) and frequency of monitoring and recording
- The operator shall obtain approval of the APCO and EPA for the specific key system operating parameter(s), monitoring frequency, and recording frequency used by the operator to monitor PM10 emissions
- The operator shall monitor approved key system operating parameter(s) at the approved monitoring frequency to ensure compliance with the emission limit(s) during periods of emission-producing activities
- Acceptable range(s) for key system operating parameter(s) shall be demonstrated through source test

Condition 10 assures compliace with the requirements of this rule Conditions 11 and 61 were added to assure compliance with the requirements of this rule

The following requirements for recordkeeping are summarized from Section 6 3

- Operators shall maintain daily records of the following items
  Total hours of operation,
  The quantity of glass pulled from each furnace,
  NOx emission rate in lb/ton glass pulled,
  CO emission rate in lb/ton glass pulled, if a CEMS is used,
  VOC emission rate in lb/ton glass pulled, if a CEMS is used,
  SOx emission rate in lb/ton glass pulled, if a CEMS is used,

PM10 emission rate in lb/ton glass pulled, if a CEMS is used,

- For pollutants monitored using an approved parametric monitoring arrangement, operators shall record the operating values of the key system operating parameters at the approved recording frequency

- Operators shall maintain records of the following items
  Source tests and source test results,
  The acceptable range for each approved key system operating parameter, as established during source test,
  Maintenance and repair
  Malfunction

Conditions 47 through 54 assure compliace with the requirements of this rule

The following requirements for Compliance Source Testing and Test Methods are summarized from Sections 6 4 and 6 5

- Each glass melting furnace shall be source tested at least once every calendar year, but not more than every 18 months and not sooner than every 6 months to demonstrate compliance with the applicable requirements of Section 5 0 Sources exempt under Section 4 3 are not required to source test for the exempted pollutants

- Source test conditions shall be representative of normal operations, but not less than 60 percent of the permitted glass production capacity

- For operators using alternative monitoring systems, during the source test, the operator shall monitor and record, at a minimum, all operating data for each parameter, fresh feed rate, and flue gas flow rate and submit this data with the test report

- During source testing the arithmetic average of three (3) 30-consecutive-minute test runs shall be used to determine compliance with NOx, CO, VOC, and SOx emission limits Three (3) 60-consecutive-minute test runs shall be used to determine compliance with PM10 emission limits

- For a given pollutant, if two of the three runs individually demonstrate emissions above the applicable limit, the test cannot be used to demonstrate compliance for the furnace,

even if the averaged emissions of all three test runs is less than the applicable limit

- Oxides of nitrogen – EPA Method 7E, EPA Method 19, or ARB Method 100

- Carbon monoxide (ppmv) – EPA Method 10, or ARB Method 100

- Volatile Organic Compound (ppmv) – EPA Method 25A expressed in terms of carbon or ARB Method 100 EPA Method 18 or ARB Method 422 shall be used to determine emissions of exempt compounds

- Stack gas oxygen, carbon dioxide, excess air, and dry molecular weight – EPA Method 3 or 3A, or ARB Method 100

- Stack gas velocity and volumetric flow rate – EPA Method 2

- Oxides of sulfur – EPA Method 6C, EPA Method 8, or ARB Method 100

- Sulfur content of liquid fuel – American Society for Testing and Materials (ASTM) D 6428-99 or ASTM D 5453-99

- PM10 Test Methods

Filterable PM10 emissions - EPA Method 5, EPA Method 201, or EPA Method 201A An operator choosing EPA Method 5 shall count all PM collected as PM10

Condensable PM 10 emissions - EPA Method 202 with the following procedures

1 Purge the impinger with dry nitrogen for one hour The one-hour purge with dry nitrogen shall be performed as soon possible after the final leak check of the system

2 Neutralize the inorganic portion to a pH of 7 0 Use the procedure, "Determination of NH4 Retained in Sample by Titration" described in Method 202 to neutralize the sulfuric acid Neutralizing the inorganic portion to a pH of 7 0 determines the un-neutralized sulfuric acid content of the

sample without over-correcting the amount of neutralized sulfate in the inorganic portion

3 Evaporate the last 1 ml of the inorganic fraction by air drying following evaporation of the bulk of the impinger water in a 105 degrees C oven as described in the first sentence of the Method 202 section titled "Inorganic Fraction Weight Determination "

The conditions 36 through 46 on Permit unit N-477-10-8 assure compliance with the amended requirements of this rule

G. District Rule 4701 - Internal Combustion Engines Phase 2

The purpose of this rule is to limit the emissions of nitrogen oxides (NO_x), carbon monoxide (CO), and volatile organic compounds (VOC) from internal combustion engines This rule applies to any internal combustion engine with a rated brake horsepower greater than 50 horsepower and that requires a Permit-to-Operate (PTO)

Permit Units N-477-19, '-20, '-43, '-49, '-50, '-51 (diesel and natural gas-fired emergency IC engines)

Per Rule 4702, this rule does not apply to emergency diesel-fired IC engines as of June 1, 2006, if the engine satisfies Rule 4702 The engines are in full compliance with Rule 4702, therefore, all references to Rule 4701 will be removed from this permit unit, as shown in the draft PTOs

H. District Rule 4702 - Internal Combustion Engines Phase 2

The purpose of this rule is to limit the emissions of nitrogen oxides (NO_x), carbon monoxide (CO), and volatile organic compounds (VOC) from internal combustion engines

District Rule 4702 Requirements	SIP Version January 18, 2007	Ammended Version August 18, 2011
APPLICABILITY		
The rule applies to any engine rated at 25 bhp or greater		X
EXEMPTIONS		
Pursuant to Section 4 2, except for the requirements of Sections 5 9 and 6 2 3, the requirements of this rule shall not apply to an emergency standby engine or low-use engine, provided that the engine is operated with an operating nonresettable elapsed time meter (or APCO approved alternative)	X	X
Section 3 15 defines an "Emergency Standby Engine" as an internal combustion engine which operates as a temporary replacement for primary mechanical or electrical power during an unscheduled outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the operator An engine shall be considered to be an emergency standby engine if it is used only for the following purposes (1) periodic maintenance, periodic readiness testing, or readiness testing during and after repair work, (2) unscheduled outages, or to supply power while maintenance is performed or repairs are made to the primary power supply, and (3) if it is limited to operate 100 hours or less per calendar year for non-emergency purposes An engine shall not be considered to be an emergency standby engine if it is used (1) to reduce the demand for electrical power when normal electrical power line service has not failed, or (2) to produce power for the utility electrical distribution system, or (3) in conjunction with a voluntary utility demand reduction program or interruptible power contract	X	X
Monitoring Requirements: All Other Engines		

District Rule 4702 Requirements	SIP Version January 18, 2007	Ammended Version August 18, 2011
Section 5 9 (Monitoring) requires that the owner of an emergency standby engine shall comply with the requirements specified in Section 5 9 2 through Section 5 9 5 below • Name and address of the facility, • Properly operate and maintain each engine as recommended by the engine manufacturer or emission control system supplier • Monitor the operational characteristics of each engine as recommended by the engine manufacturer or emission control system supplier • Install and operate a nonresettable elapsed operating time meter In lieu of installing a nonresettable time meter, the owner of an engine may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO and is allowed by Permit-to-Operate or Stationary Equipment Registration condition The owner of the engine shall properly maintain and operate the time meter or alternative device in accordance with the manufacturer's instructions	X	X
Recordkeeping		
Section 6 2 3 requires that an owner claiming an exemption under Section 4 2 or Section 4 3 shall maintain annual operating records This information shall be retained for at least five years, shall be readily available, and submitted to the APCO upon request and at the end of each calendar year in a manner and form approved by the APCO	X	X

This rule applies to any internal combustion engine with a rated brake horsepower greater than 25 horsepower

Pursuant to Section 4 2, except for the requirements of Sections 5 9 and 6 2 3, the requirements of this rule shall not apply to an internal combustion engine that meets the following condition

An emergency standby engine as defined in Section 3 0 of this rule, and provided that it is operated with a nonresettable elapsed operating time meter In lieu of a nonresettable time meter, the owner of an emergency engine may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO The

owner of the engine shall properly maintain and operate the time meter or alternative device in accordance with the manufacturer's instructions

Section 3 15 defines an "Emergency Standby Engine" as an internal combustion engine which operates as a temporary replacement for primary mechanical or electrical power during an unscheduled outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the operator An engine shall be considered to be an emergency standby engine if it is used only for the following purposes (1) periodic maintenance, periodic readiness testing, or readiness testing during and after repair work, (2) unscheduled outages, or to supply power while maintenance is performed or repairs are made to the primary power supply, and (3) if it is limited to operate 100 hours or less per calendar year for non-emergency purposes An engine shall not be considered to be an emergency standby engine if it is used (1) to reduce the demand for electrical power when normal electrical power line service has not failed, or (2) to produce power for the utility electrical distribution system, or (3) in conjunction with a voluntary utility demand reduction program or interruptible power contract

Therefore, the emergency standby IC engines will only have to meet the requirements of Sections 5 9 and 6 2 3 of this Rule

Section 5 7 of this Rule requires that the owner of an emergency standby engine shall comply with the requirements specified in Section 5 9 2 through Section 5 9 5 below

1) Properly operate and maintain each engine as recommended by the engine manufacturer or emission control system supplier

2) Monitor the operational characteristics of each engine as recommended by the engine manufacturer or emission control system supplier

3) Install and operate a nonresettable elapsed operating time meter In lieu of installing a nonresettable time meter, the owner of an engine may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO and is allowed by Permit-to-Operate or Stationary Equipment Registration condition The owner of the engine shall properly maintain and operate the time meter or alternative device in accordance with the manufacturer's instructions

Section 6 2 3 requires that an owner claiming an exemption under Section 4 2 or Section 4 3 shall maintain annual operating records This information shall be retained for at least five years, shall be readily available, and submitted to

the APCO upon request and at the end of each calendar year in a manner and form approved by the APCO The following conditions will be listed to ensure compliance

Permit Unit	Conditions
N-477-19-3	4, 5, 11, 12, 13, 14, 15, 16, and 19
N-477-20-3	4, 5, 11, 12, 13, 14, 15, 16, and 19
N-477-43-4	6, 7, 13, 14, 15, 16, 17, and 20
N-477-49-2	9, 10, 16, 17, 18, 19, 20, and 21
N-477-50-1	3, 4, 10, 11, 12, 13, 14, and 17
N-477-51-1	7, 8, 14, 15, 16, 17, 18 and 21

I. California Code of Regulations (CCR), Title 17 (Public Health), Division 3 (Air Resources), Chapter 1 (Air Resources Board), Subchapter 7.5 (Air Toxic Control Measures), Measure 93115 (Stationary Diesel Engines)

Emergency Operating Requirements

This regulation stipulates that no owner or operator shall operate any new or in-use stationary diesel-fueled compression ignition (CI) emergency standby engine, in response to the notification of an impending rotating outage, unless specific criteria are met

This section applies to emergency standby IC engines that are permitted to operate during non-emergency conditions for the purpose of providing electrical power However, District Rule 4702 states that emergency standby IC engines may only be operated during non-emergency conditions for the purposes of maintenance and testing Therefore, this section does not apply and no further discussion is required

This ATCM requires that no owner or operator shall operate an in-use stationary emergency standby diesel-fueled CI engine (>50 bhp) that emits diesel PM at a rate greater than 0 40 g/bhp-hr more than 20 hours per year for maintenance and testing purposes Engines powering a fire pump are exempt from 20 hours per year limitation

The ATCM also requires that in-use emergency standby engines are required to use only diesel fuels that meet the definition of CARB diesel at the time of purchase

The ATCM also requires that no owner or operator shall operate an in-use stationary emergency standby diesel-fueled CI engine for non-emergency

use, including maintenance and testing, during the following periods a) whenever there is a school sponsored activity, if the engine is located on school grounds, and b) between 7 30 a m and 3 30 p m on days when school is in session, if the engine is located within 500 feet of school grounds This facility is not located near any schools so these requirements are not applicable

The ATCM also requires that owner or operator of an emergency standby diesel-fueled CI engine shall keep a monthly log of usage that shall list and document the nature of use for each of the following

a Emergency use hours of operation,
b Maintenance and testing hours of operation,
c Hours of operation for any emission testing,
d Initial start-up hours,
e If applicable, hours of operation to comply with the requirements of NFPA 25,
f Hours of operation for all uses other than those specified above, and
g The fuel used

The owner or operator shall document fuel use through the retention of fuel purchase records that account for all fuel used in the engine and all fuel purchased for use in the engine, and, at a minimum, contain the following information for each individual fuel purchase transaction

I Identification of the fuel purchased as either CARB Diesel,
II Amount of fuel purchased,
III Date when the fuel was purchased,
IV Signature of owner or operator or representative of owner or operator who received the fuel, and
V Signature of fuel provider indicating fuel was delivered

The ATCM requirements have been incorporated into the draft PTOs as follows

Permit Unit	Conditions
N-477-19-3	2, 11, 13, 15, 16, and 19
N-477-20-3	3, 11, 13, 15, 16, and 17
N-477-49-2	8, 16, 18, 20, 21, and 24

J. 40 CFR 60, Subpart IIII, New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines

This rule incorporates NSPS from Part 60, Chapter 1, Title 40, Code of Federal Regulations (CFR), and applies to all new sources of air pollution and modifications of existing sources of air pollution listed in 40 CFR Part 60 40 CFR Part 60, Subpart IIII is the only subpart that applies to compression-ignited internal combustion engines

Section 60 4200(a)(2)(i) states that the provisions of this subpart apply to owners and operators of stationary compression ignition (CI) internal combustion engines that commence construction after July 11, 2005 where the engines are manufactured after April 1, 2006 and are not fire pump engines The engine permit units '-19, '-20, and '-49 at this facility existed prior to these dates, therefore, this subpart does not apply to these permit units

K. 40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines

§ 63.6580 Purpose

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

§ 63.6585 Applicability

You are subject to this subpart if you own or operate a stationary RICE at a major or area source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/stand As such, the emergency engines at this facility (permit units '-19 '-20, '-43, '-49, '-50, and '-51) are subject to this subpart

§ 63.6590 What parts of my plant does this subpart cover?

This subpart applies to each affected source

(a) *Affected source* An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand

This facility is an area source of HAP emissions, therefore, this subpart applies

o Existing stationary RICE

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

The following permit units are defined as "existing" since installation was prior to June 12, 2006 '-19 '-20, '-43, '-49, '-50, and '-51

(2) New stationary RICE

(iii) A stationary RICE located at an area source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006

(3) The following stationary RICE do not have to meet the requirements of this subpart and of subpart A of this part, including initial notification requirements

(i) Existing spark ignition 2 stroke lean burn (2SLB) stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions,
(ii) Existing spark ignition 4 stroke lean burn (4SLB) stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions,
(iii) Existing emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions,
(iv) Existing limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions,
(v) Existing stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis,
(vi) Existing residential emergency stationary RICE located at an area source of HAP emissions,
(vii) Existing commercial emergency stationary RICE located at an area source of HAP emissions, or

(viii) Existing institutional emergency stationary RICE located at an area source of HAP emissions

The existing emergency engines at this facility do not qualify for any of the exemptions listed in (3)(i) thru (3)(viii) above

(c) *Stationary RICE subject to Regulations under 40 CFR Part 60* An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines No further requirements apply for such engines under this part

(1) A new or reconstructed stationary RICE located at an area source,
(2) A new or reconstructed 2SLB stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions,
(3) A new or reconstructed 4SLB stationary RICE with a site rating of less than 250 brake HP located at a major source of HAP emissions,
(4) A new or reconstructed spark ignition 4 stroke rich burn (4SRB) stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions,
(5) A new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis,
(6) A new or reconstructed emergency or limited use stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions,
(7) A new or reconstructed compression ignition (CI) stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions

IIII

§ 63.6595 When do I have to comply with this subpart?

(a) *Affected sources* (1) If you have an existing stationary RICE, excluding existing non-emergency CI stationary RICE, with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than June 15, 2007 If you have an existing non-emergency CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, an existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an

existing stationary CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than May 3, 2013 If you have an existing stationary SI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary SI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than October 19, 2013

Permit units '-19, '-20, and '-49 are existing stationary CI RICE located at an area source of HAP emissions, therefore, the full compliance date for this subpart is May 3, 2013

Permit units '-43, '-50, and '-51 are existing stationary SI RICE located at an area source of HAP emissions, therefore, the full compliance date for this subpart is October 19, 2013

§ 63.6603 What emission limitations and operating limitations must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?

(a) If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart and the operating limitations in Table 1b and Table 2b to this subpart that apply to you Note, there are no Table 1b or Table 2b operating limitations for emergency engines

Table 2d to Subpart ZZZZ of Part 63 - Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions.

As stated in §§63 6603 and 63 6640, the following table applies to existing stationary RICE located at area sources of HAP emissions

For each . . .	You must meet the following requirements, except during periods of startup . . .	During periods of startup you must . . .
4 Emergency stationary CI RICE and black start stationary CI RICE *	a Change oil and filter every 500 hours of operation or annually, whichever comes first,	N/A
	b Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and	N/A
	c Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary	N/A

For each . . .	You must meet the following requirements, except during periods of startup . . .	During periods of startup you must . . .
5 Emergency stationary SI RICE and black start stationary SI RICE *	a Change oil and filter every 500 hours of operation or annually, whichever comes first,	N/A
	b Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and	N/A
	c Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary	N/A

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

practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable

§ 63.6625 What are my monitoring, installation, collection, operation, and maintenance requirements?

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

(1) An existing stationary RICE with a site rating of less than 100 HP located at a major source of HAP emissions,
(2) An existing emergency or black start stationary RICE with a site rating of less than or equal to 500 HP located at a major source of HAP emissions,
(3) An existing emergency or black start stationary RICE located at an area source of HAP emissions,

(h) If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply

§ 63.6640 How do I demonstrate continuous compliance with the emission limitations and operating limitations?

(a) You must demonstrate continuous compliance with each emission limitation and operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you according to methods specified in Table 6 to this subpart

(b) You must report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you These instances are deviations from the emission and operating limitations in this subpart These deviations must be reported according to the requirements in §63 6650 If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test When you reestablish the values of your operating parameters, you must also conduct a

performance test to demonstrate that you are meeting the required emission limitation applicable to your stationary RICE

(f) *Requirements for emergency stationary RICE*

(1) If you own or operate an existing emergency stationary RICE located at an area source of HAP emissions, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1)(i) through (iii) of this section Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1)(i) through (iii) of this section, is prohibited If you do not operate the engine according to the requirements in paragraphs (f)(1)(i) through (iii) of this section, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines

(i) There is no time limit on the use of emergency stationary RICE in emergency situations

(ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine Maintenance checks and readiness testing of such units is limited to 100 hours per year The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year

(iii) You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity, except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine

operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph (f)(1)(iii), as long as the power provided by the financial arrangement is limited to emergency power

Table 6 to Subpart ZZZZ of Part 63 - Continuous Compliance With Emission Limitations, Operating Limitations, Work Practices, and Management Practices

As stated in §63 6640, you must continuously comply with the emissions and operating limitations and work or management practices as required by the following

For each . . .	Complying with the requirement to . . .	You must demonstrate continuous compliance by . . .
9 Existing emergency and black start stationary RICE located at an area source of HAP	a Work or Management practices	i Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions, or ii Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions

§ 63.6645 What notifications must I submit and when?

There are no notifications necessary for existing emergency engines

§ 63.6650 What reports must I submit and when?

There are no report submittals necessary for existing emergency engines

§ 63.6655 What records must I keep?

(a) If you must comply with the emission and operating limitations, you must keep the records as follows

(4) Records of all required maintenance performed on the air pollution control and monitoring equipment
(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63 6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation

(d) You must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to you

(e) You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE

(2) An existing stationary emergency RICE
(3) An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to this subpart

(f) If you own or operate any of the stationary RICE in paragraph (f)(2) below, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response

(2) An existing emergency stationary RICE located at an area source of HAP emissions that does not meet the standards applicable to non-emergency engines

§ 63.6660 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review according to §63 10(b)(1)

(b) As specified in §63 10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record
(c) You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63 10(b)(1)

Per the discussion above, the following conditions will be placed on the draft PTOs for permit units permit units '-19 '-20, '-43, '-49, '-50, and '-51 with the applicable date (May 3, 2013 for CI and October 19, 2013 for SI)

1 On and after May 3, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines) [40 CFR 63 Subpart ZZZZ] - §63 6585/63 6595(a)

2 On and after May 3, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes [40 CFR 63 Subpart ZZZZ] - §63 6625(h)

3 On and after May 3, 2013, the engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first [40 CFR 63 Subpart ZZZZ] - §63 6603/63 6640 Table 2d, Row 4 a

4 On and after May 3, 2013, the engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary [40 CFR 63 Subpart ZZZZ] - §63 6603/63 6640 Table 2d, Row 4 b

5 On and after May 3, 2013, the engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary [40 CFR 63 Subpart ZZZZ] - §63 6603/63 6640 Table 2d, Row 4 c

6 {modified 3404} This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] - §63 6625(f)

7 {modified 4261} 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 and 40 CFR 63 Subpart ZZZZ] - Table 6

8 {modified 3495} This engine shall be operated only for maintenance, testing, required regulatory purposes, and during emergency situations Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year * [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] - §63 6640(f)(ii)

*Different engines may have different hours due to ATCM requirements

9 On and after May 3, 2013, the permittee shall maintain monthly records of all performance tests, opacity and visible emissions observations and required maintenance performed on the air pollution control and monitoring equipment [District Rule 1070 and 40 CFR 63 Subpart ZZZZ] - §63 6655(a)(3)/§63 10(b)(2)(viii) and §63 6655(a)(4)

10 On and after May 3, 2013, the permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i e , process equipment) or the air pollution control and monitoring equipment The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63 6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation [District Rule 1070 and 40 CFR 63 Subpart ZZZZ] - §63 6655(a)(2) and (a)(5)

{modified 3873} All records shall be maintained and retained on-site for a period of at least 5 years and shall be made available for District inspection upon request [District Rules 1070, 4702, 2520, 9 4, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] - §63 6660

L. 40 CFR Part 64, Compliance Assureance Monitoring (CAM)

§64.2 - Applicability

CAM is required for units that meet the following three criteria

(1) the unit must have an emission limit for the pollutant,
(2) the unit must have add-on controls for the pollutant (e g flue gas recirculation, baghouse, or catalytic oxidizer), and
(3) the unit must have a pre-control potential to emit of greater than the major source thresholds for that pollutant

Pollutant	Major Source Threshold (lb/year)
VOC	20,000
NO_x	20,000
CO	200,000
PM_{10}	140,000
SO_x	140,000

Permit Unit	Emissions Limit	Emissions Control	CAM Required
N-447-3 Storage/Handling	No	Yes	No
N-477-4 Scale Gallery	No	Yes	No
N-477-19 Emergency IC Engine	No	No	No
N-477-20 Emergency IC Engine	No	No	No
N-477-28 Batch Coveyor/Drop Point	No	Yes	No
N-477-29 Batch Mixer	No	Yes	No
N-477-30 Batch Mixer	No	Yes	No
N-477-31 Silo	No	Yes	No
N-477-32 Silo	No	Yes	No
N-477-33 Silo	No	Yes	No
N-477-35 Glass Crusher	No	Yes	No
N-477-39 Annealing Lehr	No	No	No
N-477-43 Emergency IC Engine	No	Yes	No
N-477-44 Maintenance Flare	Yes	No	No
N-477-49 Emergency IC Engine	Yes	No	No
N-477-50 Emergency IC Engine	No	No	No
N-477-51 Emergency IC Engine	Yes	No	No

a N-477-1 Storage and Handle System

This permit may be subject to CAM for PM_{10}, as there is a PM_{10} limit, and it does have an add-on control in the form of cyclones

(1) PM10 emissions are limited to 165 lb/day

(2) The units are equipped with cyclones with 56% (Per project N-950133)

(3) Uncontrolled emissions

Annual Uncontrolled PE = [165 0 lb-PM10/day × 365 days/yr − (1-0 56)]

Annual Uncontrolled PE = 136,875 lb-PM10/year

As shown above, the uncontrolled PE for PM10 is less than the major source threshold of 140,000 lb/year Therefore, this unit does not trigger CAM

b N-477-5 Raw Material Receiving

This permit may be subject to CAM for PM_{10}, as there is a PM_{10} limit, and it does have an add-on control in the form of baghouse

(1) PM10 emissions are limited to 101 7 lb/day

(2) The units are equipped with bag houses with 98%

(3) Uncontrolled emissions

Annual Uncontrolled PE = [101 7 lb-PM10/day × 365 days/yr − (1-0 98)]

Annual Uncontrolled PE = 1,856,025 lb-PM10/year

As shown above, the uncontrolled PE for PM10 is greater than the major source threshold of 140,000 lb/year Therefore, this unit does trigger CAM

In addition §64 3(b)(4)(iii) allows a daily monitoring frequency if the controlled emissions are less than the major source threshold

Annual Controlled PE = 101 7 lb-PM10/day × 365 days/yr

Annual Controlled PE = 37,121 lb-PM10/year

As shown above, the controlled PE for PM10 is less than the major source threshold of 140,000 lb/year Therefore, hourly monitoring is not required

c N-477-6 Cullet Conveying System

This permit may be subject to CAM for PM_{10}, as there is a PM_{10} limit, and it does have an add-on control in the form of baghouse

(1) PM10 emissions are limited to 8 3 lb/day

(2) The units are equipped with bag houses with 98%

(3) Uncontrolled emissions

Annual Uncontrolled PE = [8 3 lb-PM10/day × 365 days/yr − (1-0 98)]

Annual Uncontrolled PE = 151,475 lb-PM10/year

As shown above, the uncontrolled PE for PM10 is greater than the major source threshold of 140,000 lb/year Therefore, this unit does trigger CAM

In addition §64 3(b)(4)(iii) allows a daily monitoring frequency if the controlled emissions are less than the major source threshold

Annual Controlled PE = 8 3 lb-PM10/day × 365 days/yr

Annual Controlled PE = 3,030 lb-PM10/year

As shown above, the controlled PE for PM10 is less than the major source threshold of 140,000 lb/year Therefore, hourly monitoring is not required

d N-477-7 Cullet Conveying System

This permit may be subject to CAM for PM_{10}, as there is a PM_{10} limit, and it does have an add-on control in the form of baghouse

(1) PM10 emissions are limited to 39 8 lb/day

(2) The units are equipped with bag houses with 98%

(3) Uncontrolled emissions

Annual Uncontrolled PE = [39 8 lb-PM10/day × 365 days/yr − (1-0 98)]

Annual Uncontrolled PE = 726,350 lb-PM10/year

As shown above, the uncontrolled PE for PM10 is greater than the major source threshold of 140,000 lb/year Therefore, this unit does trigger CAM

In addition §64 3(b)(4)(iii) allows a daily monitoring frequency if the controlled emissions are less than the major source threshold

Annual Controlled PE = 39 8 lb-PM10/day × 365 days/yr

Annual Controlled PE = 14,527 lb-PM10/year

As shown above, the controlled PE for PM10 is less than the major source threshold of 140,000 lb/year Therefore, hourly monitoring is not required

e N-477-10 Glass Melting Furnace

The facility is not a major source for VOC emissions, and the glass furnace does not use any emission control devices to comply with the CO, VOC, PM_{10}, or SO_x emission limitations listed in the operating permit Therefore, the requirements of this subpart do not apply to the CO, VOC, PM_{10}, and SO_x emission limitations

Moreover, §64 2(b)(1)(vi) provides an exemption from the requirements of this subpart for emission limitations or standards for which a Part 70 (State) or Part 71 (Federal) operating permit specifies a continuous compliance determination method District Rule 4354 requires a continuous emission monitoring system for NO_x Therefore, the NO_x emission limitation is exempt from the requirements of this subpart

§64.3 - Monitoring Design Criteria

This section specifies the design criteria for the CAM system

Paragraph (a) (*General criteria*) requires that the CAM system be designed to obtain data for one or more appropriate indicators of emission control system performance and requires the owner to establish appropriate ranges or designated conditions for the selected indicators such that operation within the ranges provides a reasonable assurance of ongoing compliance with emission limitations or standards for the anticipated range of operating conditions

Paragraph (b) (*Performance criteria)* requires the owner or operator to establish and maintain the following

- Specifications to ensure that representative data are collected
- Verification procedures for startup of new monitoring equipment
- Quality assurance and control practices to ensure continuing validity of data
- Data collection frequency and procedures

Paragraph (c) (*Evaluation factors)* requires the owner or operator to take into account site specific factors in the design of the CAM system

Paragraph (d) (*Special criteria for the use of continuous emission, opacity, or predictive monitoring systems)* requires the owner or operator to use a continuous emission monitoring system (CEMS), continuous opacity monitoring system (COMS), or a predictive emission monitoring system (PEMS) to satisfy CAM requirements, provided that these monitoring systems are required pursuant to other authority under the Clean Air Act or state or local law This subsection also stipulates the following

- The use of a CEMS, COMS, or PEMS that satisfies any of the following monitoring requirements shall be deemed to satisfy the general design criteria in paragraphs (a) and (b) of this section, provided that a COMS may be subject to the criteria for establishing indicator ranges under paragraph (a) of this section

(i) Section 51 214 and appendix P of 40 CFR 51,
(ii) Section 60 13 and appendix B of 40 CFR 60,
(iii) Section 63 8 and any applicable performance specifications required pursuant to the applicable subpart of 40 CFR 63,
(iv) 40 CFR 75,

(v) Subpart H and appendix IX of 40 CFR 266, or
(vi) In the event that the monitoring system is not subject to any of the requirements listed above, comparable requirements and specifications established by the permitting authority

- The owner or operator shall design the monitoring system subject to this paragraph (d) to

(i) Allow for reporting of exceedances (or excursions if applicable to a COMS used to assure compliance with a particulate matter standard), consistent with any period for reporting of exceedances in an underlying requirement If an underlying requirement does not contain a provision for establishing an averaging period for the reporting of exceedances or excursions, the criteria used to develop an averaging period specified in the data collection procedures required under paragraph (b) of this section shall apply, and
(ii) Provide an indicator range consistent with paragraph (a) of this section for a COMS used to assure compliance with a particulate matter standard If an opacity standard applies to the pollutant-specific emissions unit, such limit may be used as the appropriate indicator range unless the opacity limit fails to meet the criteria in paragraph (a) of this section after considering the type of control device and other site-specific factors applicable to the pollutant-specific emissions unit

This permit unit is required to be equipped with pressure differential gauges and visual emissions monitoring The requirements will be included to use both the pressure differential gauges and no visual emissions from the exhaust of the baghouse to ensure compliance with PM10 emission limits

a N-477-5 Raw Material Receiving

Conditions 14 through 20 of this permit ensure compliance

b N-477-6 Cullet Conveying System

Conditions 14 through 20 of this permit ensure compliance

c N-477-7 Cullet Conveying System

Conditions 14 through 20 of this permit ensure compliance

§64.4 - Submittal Requirements

This section specifies submittal requirements for the owner or operator which ensure the CAM system will comply with the design criteria of §64 3

The CAM plan and analysis during this Title V renewal process will ensure compliance with these requirements

§64.5 - Deadlines for Submittals

This section specifies required timing for submittals required under §64 4

Large pollutant-specific emissions units (those with controlled emissions exceeding major source thresholds) are required to make the submittals as a part of the initial Title V permit application where the application has either not been filed or has not been deemed complete Where the initial Title V permit has been issued without implementation of 40 CFR 64, the owner or operator must make the required submittals as a part of a subsequent application for any significant permit revision If the required information is not submitted by either of these deadlines, it must be submitted as a part of the application for the Title V permit renewal

For *other pollutant-specific emissions units,* the required submittal deadline is the application for Title V permit renewal

The applicant has submitted their CAM plan along with the Title V renewal application, therefore, this requirement has been satisfied

§64.6 - Approval of monitoring

This section stipulates the following

- A requirement that the permitting authority act to approve the proposed monitoring by confirming that the monitoring submitted complies with the requirements of §64 3
- An allowance for the permitting authority to condition the approval based on collecting additional data on the indicators to be monitored, including performance or compliance testing
- The minimum conditions that must be placed on the permit in the event that the proposed monitoring is approved by the permitting authority including a milestone schedule for completion of any conditional approval actions required by the owner or operator, such as installations, testing, or verification of operational status

- Actions required by the permitting authority in the event that the proposed monitoring is not approved

The CAM submittal requirements and stipulations for approval of such submittals pursuant to §64 4, §64 5, and §64 6 have been completed in conjunction with the application and review process for this renewal of the Title V permit

§64.7 - Operation of Approved Monitoring

This section stipulates the following

- Requirements that the owner or operator 1) commence the monitoring upon receipt of a Title V permit that includes such monitoring, 2) properly maintain the monitoring system, and 3) conduct all monitoring in a continuous mode with the exception of outage periods associated with monitor malfunction and repair and with quality assurance and control activities
- Actions required by the owner or operator in response to excursions or exceedances
- A requirement for the owner or operator to document any need for improved monitoring based upon either an identification of a failure of the monitoring system to identify an excursion or exceedance or upon the results of compliance or performance testing that identifies a need to modify the monitoring

a N-477-5 Raw Material Receiving

Conditions 15, 19, and 20 of this permit ensure compliance

b N-477-6 Cullet Conveying System

Conditions 15, 19, and 20 of this permit ensure compliance

c N-477-7 Cullet Conveying System

Conditions 15, 19, and 20 of this permit ensure compliance

§64.9 - Reporting and Recordkeeping Requirements

This section stipulates the minimum reporting and recordkeeping requirements for facilities subject to 40 CFR 64

a N-477-5 Raw Material Receiving

Condition 21 of this permit ensures compliance

b N-477-6 Cullet Conveying System

Condition 21 of this permit ensures compliance

c N-477-7 Cullet Conveying System

Condition 21 of this permit ensures compliance

§64.10 - Savings Provisions

This section states that the purpose of 40 CFR 64 is to require, as a part of the issuance of a Title V permit, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of 40 CFR 64 In addition, §64 10 states that nothing in 40 CFR 64 shall excuse an owner or operator from any other requirements of federal, state or local law or restrict or abrogate the authority of the Administrator or of the permitting authority

Compliance with this section is assured with the above CAM conditions

IX. PERMIT SHIELD

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

A. Requirements Addressed by Model General Permit Templates

1 Model General Permit Template SJV-UM-0-3

By submitting Model General Permit Template SJV-UM-0-3 qualification form, the applicant has requested that a permit shield be granted for all

the applicable requirements identified by the template Therefore, the permit shields as granted in Model General Permit Template is included as conditions 39 and 40 of the facility-wide requirements (C-477-0-3)

X. PERMIT CONDITIONS

See Attachment A - Draft Renewed Title V Operating Permit

XI. ATTACHMENTS

A Draft Renewed Title V Operating Permit
B Previous Title V Operating Permit
C Detailed Facility List

ATTACHMENT A

Draft Renewed Title V Operating Permit

San Joaquin Valley
Air Pollution Control District

FACILITY: N-477-0-3 **EXPIRATION DATE:** 08/31/2007

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FACILITY-WIDE REQUIREMENTS

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

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FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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

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

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 July 15, 1998, the initial Title V permit was issued The reporting periods for the Report of Required Monitoring and the Compliance Certification Report begin every July 15, 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 {98} No air contaminant shall be released into the atmosphere which causes a public nuisance [District Rule 4102]

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-1-5 **EXPIRATION DATE:** 08/31/2007

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EQUIPMENT DESCRIPTION:
RIGHT AND LEFT SIDE DOGHOUSE VENTILATION SYSTEM VENTED TO A P&F RECOV-AIRE MODEL JT-10-560-7,880 BAGHOUSE AS THE PRIMARY DUST COLLECTOR OR VENTED TO TWO KIRK & BLOM CYCLONES, IN PARALLEL, AS A BACKUP SYSTEM FOR DUST CONTROL

PERMIT UNIT REQUIREMENTS

1. PM10 emissions shall not exceed 0 22 pounds per ton of material introduced into the furnace [District NSR Rule] Federally Enforceable Through Title V Permit
2. The furnace fill rate shall not exceed 750 tons per day [District NSR Rule] Federally Enforceable Through Title V Permit
3. There shall be no visible emissions from the baghouse [District NSR Rule] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit
5. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit
6. Material removed from the baghouse or the cyclones shall be disposed of in a manner preventing entrainment into the atmosphere [District NSR Rule] Federally Enforceable Through Title V Permit
7. The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit
8. A log shall be maintained indicating the amount of material introduced into the furnace on a daily basis All records shall be retained and shall be made available for District inspection upon request [District NSR Rule] Federally Enforceable Through Title V Permit
9. The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit
10. Records of dust collector maintenance, inspections, and repair shall be maintained The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit
11. Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit
12. Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

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PERMIT UNIT: N-477-3-4 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
MICRO INGREDIENT STORAGE AND HANDLING CONSISTING OF A 4 BIN DUMP HOPPER, ROUGE DUMP HOPPER, NITER DUMP HOPPER AND SCREEN, SCALE ENCLOSURE, AND CONVEYOR, ALL VENTED TO A BAGHOUSE

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

7 A daily log shall be kept on the premises consisting of the total daily weight of each type of raw material used for the manufacture of glass [District NSR Rule] Federally Enforceable Through Title V Permit

8 All records shall be retained and shall be made available for District inspection upon request [District NSR Rule] Federally Enforceable Through Title V Permit

9 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

10 Records of dust collector maintenance, inspections, and repair shall be maintained The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

12 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-4-6 **EXPIRATION DATE:** 08/31/2007

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EQUIPMENT DESCRIPTION:
SCALE GALLERY VENTED T0 6 BAGHOUSES #1 SERVES THE 2 SAND HOPPERS, #2 SERVES THE SALT CAKE HOPPER, #3 SERVES THE M/T HOPPER, #4 SERVES THE CALCIUM HOPPER, #5 SERVES THE DOLOMITE HOPPER, #6 SERVES THE SODA ASH HOPPERS AND THE GATHERING BELT

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

7 A daily log shall be kept on the premises consisting of the total daily weight of each type of raw material used for the manufacture of glass [District NSR Rule] Federally Enforceable Through Title V Permit

8 All records shall be retained and shall be made available for District inspection upon request [District NSR Rule] Federally Enforceable Through Title V Permit

9 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

10 Records of dust collector maintenance, inspections, and repair shall be maintained The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

12 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-5-4 **EXPIRATION DATE:** 08/31/2007

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EQUIPMENT DESCRIPTION:
RAW MATERIAL RECEIVING STATION CONSISTING OF AN UNLOADING HOPPER, AN UNDERGROUND CONVEYOR, AND A BELOW GROUND ELEVATOR UNDER AN ENCLOSURE SERVED BY A BAGHOUSE

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

3 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

4 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

5 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

6 Total material unloading and handling shall not exceed 7830 tons/day [District NSR Rule] Federally Enforceable Through Title V Permit

7 When unloading, provisions shall be made in order to minimize fugitive dust emissions from the unloading hopper [District NSR Rule] Federally Enforceable Through Title V Permit

8 PM10 emissions shall not exceed 0 013 lbs per ton of materials unloaded [District NSR Rule] Federally Enforceable Through Title V Permit

9 A daily log shall be kept on the premises showing the amount and type of materials received and unloaded [District NSR Rule] Federally Enforceable Through Title V Permit

10 All records shall be retained and shall be made available for District inspection upon request [District NSR Rule] Federally Enforceable Through Title V Permit

11 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

12 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

13 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

14 Visible emissions from the raw material receiving operation shall be evaluated using EPA Method 9 for a period of at least 6 minutes at least once during each day that the permit unit is operated [40 CFR Part 64] Federally Enforceable Through Title V Permit

15 The baghouse exhaust shall have no visible emissions Upon determining an excursion from this requirement, the permittee shall investigate the excursion and take corrective action to minimize emissions and prevent recurrence of the excursion as expeditiously as practicable [40 CFR Part 64] Federally Enforceable Through Title V Permit

16 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [40 CFR Part 64] Federally Enforceable Through Title V Permit

17 The baghouse shall operate at all times with a minimum differential pressure of 2 5 inches water column and a maximum differential pressure of 7 5 inches water column [40 CFR Part 64] Federally Enforceable Through Title V Permit

18 Differential operating pressure shall be monitored and recorded on each day that the combustor operates [40 CFR Part 64] Federally Enforceable Through Title V Permit

19 During each day of operation, the permittee shall record the pressure drop of the baghouse, and compare the readings with the acceptable range Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable [40 CFR Part 64] Federally Enforceable Through Title V Permit

20 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

21 The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64 9 [40 CFR Part 64] Federally Enforceable Through Title V Permit

22 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

23 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

24 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

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PERMIT UNIT: N-477-6-5 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
CULLET CONVEYING SYSTEM CONSISTING OF A CULLET INPUT HOPPER AND TWO COVERED CONVEYORS WITH THE TRANSFER POINTS VENTED TO A DLM3/8-15 BAGHOUSE, AND ONE COVERED CONVEYOR AND FURNACE INPUT HOPPER BOTH VENTED TO A DU-45R 12 BAGHOUSE

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

3 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

4 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

5 All conveyors shall be covered or enclosed [District NSR Rule] Federally Enforceable Through Title V Permit

6 All conveyor transfer points shall be enclosed and vented to a baghouse [District NSR Rule] Federally Enforceable Through Title V Permit

7 The throughput of cullet shall not exceed 750 tons/day [District NSR Rule] Federally Enforceable Through Title V Permit

8 The drop chute spout shall be adequately shrouded to minimize the fugitive dust emissions [District NSR Rule] Federally Enforceable Through Title V Permit

9 The cumulative PM10 emission concentration from all emission points of this permit shall not exceed 0 011 lbs/ton of cullet throughput [District NSR Rule] Federally Enforceable Through Title V Permit

10 A daily log of cullet throughput shall be maintained [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

12 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

13 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

14 Visible emissions from the cullet conveying system shall be evaluated using EPA Method 9 for a period of at least 6 minutes at least once during each day that the permit unit is operated [40 CFR Part 64] Federally Enforceable Through Title V Permit

15 Each baghouse exhaust shall have no visible emissions Upon determining an excursion from this requirement, the permittee shall investigate the excursion and take corrective action to minimize emissions and prevent recurrence of the excursion as expeditiously as practicable [40 CFR Part 64] Federally Enforceable Through Title V Permit

16 Each baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [40 CFR Part 64] Federally Enforceable Through Title V Permit

17 The DLM3/8-15 baghouse shall operate at all times with a minimum differential pressure of 1 0 inches water column and a maximum differential pressure of 7 0 inches water column [40 CFR Part 64] Federally Enforceable Through Title V Permit

18 The DU-45R 12 baghouse shall operate at all times with a minimum differential pressure of 1 5 inches water column and a maximum differential pressure of 8 0 inches water column [40 CFR Part 64] Federally Enforceable Through Title V Permit

19 Differential operating pressures shall be monitored and recorded on each day that the combustor operates [40 CFR Part 64] Federally Enforceable Through Title V Permit

20 During each day of operation, the permittee shall record the pressure drop of each baghouse, and compare the readings with the acceptable range Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable [40 CFR Part 64] Federally Enforceable Through Title V Permit

21 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

22 The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64 9 [40 CFR Part 64] Federally Enforceable Through Title V Permit

23 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

24 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

25 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

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PERMIT UNIT: N-477-7-6 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION.
CULLET CONVEYING SYSTEM ENCLOSED GLASS GRINDER AND CONVEYOR ALL VENTED TO THE DLM 3/8-15 BAGHOUSE, A COVERED CONVEYOR, A CULLET DROP CHUTE VENTED TO THE DLM 3/8-15 BAGHOUSE, A CONCRETE CULLET RECEIVING BUNKER, TEN STORAGE BUNKERS, AND STORAGE PILES

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

3 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

4 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

5 All conveyors shall be covered or enclosed [District NSR Rule] Federally Enforceable Through Title V Permit

6 All conveyor transfer points shall be enclosed and vented to a baghouse [District NSR Rule] Federally Enforceable Through Title V Permit

7 The throughput of cullet shall not exceed 750 tons/day [District NSR Rule] Federally Enforceable Through Title V Permit

8 The cullet input hopper shall be adequately shrouded to minimize the fugitive dust emissions [District NSR Rule] Federally Enforceable Through Title V Permit

9 The cumulative PM10 emission concentration from all emission points of this permit shall not exceed 0 053 lbs/ton of cullet throughput [District NSR Rule] Federally Enforceable Through Title V Permit

10 A daily log of cullet throughput shall be maintained [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

12 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

13 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

14 Visible emissions from the cullet conveying system shall be evaluated using EPA Method 9 for a period of at least 6 minutes at least once during each day that the permit unit is operated [40 CFR Part 64] Federally Enforceable Through Title V Permit

15 The baghouse exhaust shall have no visible emissions Upon determining an excursion from this requirement, the permittee shall investigate the excursion and take corrective action to minimize emissions and prevent recurrence of the excursion as expeditiously as practicable [40 CFR Part 64] Federally Enforceable Through Title V Permit

16 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [40 CFR Part 64] Federally Enforceable Through Title V Permit

17 The baghouse shall operate at all times with a minimum differential pressure of 4 0 inches water column and a maximum differential pressure of 7 8 inches water column [40 CFR Part 64] Federally Enforceable Through Title V Permit

18 Differential operating pressure shall be monitored and recorded on each day that the combustor operates [40 CFR Part 64] Federally Enforceable Through Title V Permit

19 During each day of operation, the permittee shall record the pressure drop of the baghouse, and compare the readings with the acceptable range Upon detecting any excursion from the acceptable range pressure readings, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable [40 CFR Part 64] Federally Enforceable Through Title V Permit

20 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

21 The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR Part 64 9 [40 CFR Part 64] Federally Enforceable Through Title V Permit

22 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

23 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

24 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-10-8 **EXPIRATION DATE:** 08/31/2007

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EQUIPMENT DESCRIPTION:
200 MMBTU/HR GLASS MELTING FURNACE WITH ECLIPSE COMBUSTION MODEL WRSP10 XX LOW NOX BURNERS AND 3R NOX EMISSIONS CONTROL SYSTEM

PERMIT UNIT REQUIREMENTS

1 The particulate matter emissions shall not exceed 0 1 grains/dscf in concentration [District Rule 4201] Federally Enforceable Through Title V Permit

2 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, by using EPA method 9 If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition [District Rule 4101, and San Joaquin County Rule 401] Federally Enforceable Through Title V Permit

3 The Pilkington 3R NOx control system shall be operated with a minimum control efficiency of 31 5% (on a 24-hour average) at all times, except for a period of time necessary to establish a baseline NOx emission rate for the purpose of determining the NOx control equipment efficiency Uncontrolled NOx emissions may be generated up to 16 hours per month (maximum of 4 hours per 24 hour period) when establishing the baseline NOx emissions rate [District NSR Rule] Federally Enforceable Through Title V Permit

4 The furnace fill rate shall not exceed 750 tons per day [District NSR Rule] Federally Enforceable Through Title V Permit

5 When firing on LPG, the daily fuel usage rate shall not exceed 64,066 gallons [District NSR Rule] Federally Enforceable Through Title V Permit

6 When firing on natural gas, the daily fuel usage rate shall not exceed 5,942,875 cubic feet [District NSR Rule] Federally Enforceable Through Title V Permit

7 The glass pull rate shall not exceed 630 tons per day [District Rules 4354, 6 1] Federally Enforceable Through Title V Permit

8 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

9 All equipment, facilities, or systems installed or used to achieve compliance with the terms and conditions of the Federal Prevention of Significant Deterioration permit shall at all times be maintained in good working order and be operated as efficiently as possible to minimize air pollutant emissions [40 CFR 52 21] Federally Enforceable Through Title V Permit

10 The exhaust stack shall be equipped with a continuous emissions monitoring system (CEMS) for NOx, O2 and stack gas flow rate, and a continuous opacity monitoring system (COMS) Both the CEMS and COMS shall meet the requirements of 40 CFR parts 60 and 75 and shall be capable of monitoring emissions during startups and shutdowns as well as during normal operating conditions [District Rule 1080 and 40 CFR 52 21] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11 The operator shall report any violation of NOx emission standards indicated by the NOx CEMS or any violation of opacity standards as indicated by the COMS to the APCO within 96 hours [District Rule 1080] Federally Enforceable Through Title V Permit

12 The operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEMS or COMS The operator shall inform the APCO of the intent to shut down the CEMS or COMS at least 24 hours prior to the event [District Rule 1080] Federally Enforceable Through Title V Permit

13 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

14 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

15 The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable 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

16 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

17 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

18 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 ñ 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

19 NOx emissions (referenced as NO2) shall not exceed 241 5 pounds per hour on a block 24-hour average [District Rules 2201 and 4354]

20 A block 24-hour average is defined as the arithmetic average of hourly NOx emission rates of a furnace as measured over 24 one-hour periods, daily, from 12 00 AM to 11 59 PM, excluding periods of system calibration [District Rule 4354]

21 NOx emissions (referenced as NO2) shall not exceed 4,410 pounds per day on a rolling 30-day average [District Rules 2201 and 4354]

22 A rolling 30-day average is defined as the arithmetic average of the daily emission rates of a furnace over a contiguous 30-day period, excluding periods of system calibration [District Rule 4354]

23 NOx emissions (referenced as NO2) shall not exceed 1,533,000 pounds during any one calendar year [District Rule 2201]

24 CO emissions shall not exceed 567 0 pounds during any one day [District Rule 2201]

25 VOC emissions shall not exceed 21 0 pounds during any one day [District Rule 2201]

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

26 Particulate Matter emissions shall not exceed 30 0 pounds per hour [District Rule 2201 and 40 CFR 52 21] Federally Enforceable Through Title V Permit

27 SOx emissions (referenced as SO2) shall not exceed 88 0 pounds per hour [District NSR Rule and 40 CFR 52 21] Federally Enforceable Through Title V Permit

28 Saltcake or Gypsum may be used as a batch constituent as a source of sulfate [District NSR Rule] Federally Enforceable Through Title V Permit

29 When using gypsum, the emissions of oxides of sulfur (referenced as SO2) shall not exceed 30 pounds per hour when the gypsum usage is less than or equal to 10 7 pounds per 1,000 pounds of sand in the batch [District NSR Rule and 40 CFR 52 21] Federally Enforceable Through Title V Permit

30 If gypsum usage exceeds 10 7 lb/1000 lb of sand in the batch, the maximum allowable emissions shall be determined by following equation SMAX = (6 3 * GYPRATE) - 39 5, where SMAX = allowable SOx (referenced as SO2) and GYPRATE = gypsum usage (lb/1000 lb sand) [District NSR Rule and 40 CFR 52 21] Federally Enforceable Through Title V Permit

31 When using saltcake, the emissions of oxides of sulfur (referenced as SO2) shall not exceed 30 pounds per hour when the saltcake usage is less than or equal to 8 pounds per 1000 pounds of sand in the batch [District NSR Rule] Federally Enforceable Through Title V Permit

32 If saltcake usage exceeds 8 lb/1000 lb of sand in the batch, the maximum allowable emissions shall be determined by the following equation SMAX = (8 5 * SLTRATE)-39 5, where SMAX=allowable SOx (referenced as SO2) and SLTRATE=saltcake usage (lb/1000 lb sand) [District NSR Rule] Federally Enforceable Through Title V Permit

33 The maximum allowable emission rate for Particulate Matter shall be determined by the following equations E = 3 59 * P**0 62 for P<30 tons/hour or 17 31 * P**0 16 for P>30 tons/hour [District Rule 4202] Federally Enforceable Through Title V Permit

34 The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0 2% by volume as measured on a dry basis over a 15 minute period [San Joaquin County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit

35 Source testing to measure NOx, CO, VOC, PM, and SO2 emissions shall be conducted at least once every calendar year under all applicable permitted operating scenarios (low gypsum, high gypsum, low salt cake, high salt cake) and during periods of high furnace fill rate [District Rules 1081, 2520 §9 3 2 and 4354]

36 Source test conditions shall be representative of normal operations, but not less than 60% of either the maximum pull rate or furnace's maximum fuel use capacity [District Rule 4354]

37 Source testing prior to or after the anniversary of the previous test is allowed as long as the proposed source test date falls within 6 to 18 month period from the anniversary date of the previous source test [District Rule 4354]

38 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

39 For NOx, CO and VOC source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply If two of the three runs individually demonstrate emissions above the applicable limit, the test cannot be used to demonstrate compliance for the furnace, even if the averaged emissions of all three test runs is less than the applicable limit [District Rule 4354]

40 Source testing to measure NOx emissions shall be conducted using EPA Method 7E, EPA Method 19, or CARB Method 100 Other test methods may be substituted as approved by the District and EPA [District Rules 1081 and 4354 §6 5 1] Federally Enforceable Through Title V Permit

41 Source testing to measure CO emissions shall be conducted using EPA Method 10, or CARB Method 100 Other test method may be substituted as approved by the District and EPA [District Rule 4354]

42 Source testing to measure VOC emissions shall be conducted using EPA Method 25 A, EPA Method 18 or ARB Method 422 Other test method may be substituted as approved by the District and EPA [District Rule 4354]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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43 Source testing to measure Particulate Matter and SOx emissions shall be conducted using CARB combined Methods 5 and 8 Other test methods may be substituted as approved by the District and EPA [District Rule 1081 and 40 CFR 52 21] Federally Enforceable Through Title V Permit

44 Stack gas oxygen, excess air, and dry molecular weight shall be determined using EPA Method 3 or 3A, or CARB Method 100 Other test methods may be substituted as approved by the District and EPA [District Rules 1081 and 4354 §6 5 1] Federally Enforceable Through Title V Permit

45 Stack gas velocity and volumetric flow rate shall be determined using EPA Method 2 Other test methods may be substituted as approved by the District and EPA [District Rules 1081 and 4354 §6 5 1] Federally Enforceable Through Title V Permit

46 A daily log showing the date and duration of periods when the NOx control equipment is not operated shall be kept on site at all times [District NSR Rule] Federally Enforceable Through Title V Permit

47 Records shall be maintained and shall include the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEMS that have been installed pursuant to District Rule 1080, and emission measurements [District Rule 1080] Federally Enforceable Through Title V Permit

48 The operator shall maintain an operating log that includes on a daily basis, the hours of operation of the furnace, type and quantity of fuel used in the furnace, quantity of glass pulled, and NOx emission rates in lb/ton of glass pulled This information shall be on-site during normal business hours and submitted to the APCO, ARB, or EPA upon request [District Rule 4354]

49 The permittee shall maintain records of the following a) type of glass produced, b) NOx emissions, in pounds per hour, on a block 24-hour average, c) SOx and PM emissions, in pounds per hour, based on a daily average, d) CO and VOC emissions, in pounds per day, e) NOx emissions, in pounds per day, on a rolling 30-day average, f) cumulative NOx emissions, in pounds per calendar year, updated at least monthly [District Rules 2201 and 4354]

50 When applicable, daily records of natural gas or LPG usage shall be maintained [District Rule 2520 §9 3 2] Federally Enforceable Through Title V Permit

51 Daily records of furnace fill rate shall be maintained [District Rule 2520 §9 3 2] Federally Enforceable Through Title V Permit

52 Monthly records of salt cake and gypsum content per 1,000 lb of sand in each batch shall be maintained [District Rule 2520 §9 3 2] Federally Enforceable Through Title V Permit

53 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 and 40 CFR 52 21] Federally Enforceable Through Title V Permit

54 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201, San Joaquin County Rule 404, District Rule 4202 and San Joaquin County Rule 405 A permit shield is granted from these requirements [District Rule 2520 §13 2] Federally Enforceable Through Title V Permit

55 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

56 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4801 and San Joaquin County Rule 407 A permit shield is granted from these requirements [District Rule 2520 §13 2] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

57 The requirements of District Rule 4301 and San Joaquin 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

58 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

59 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

60 Permittee shall submit an Authority to Construct application for compliance with early enhanced option NOx limits by June 1, 2012, and be in full compliance with enhanced option NOx limits by January 1, 2014 [District Rule 4354, 7 2 1] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-19-3 **EXPIRATION DATE:** 08/31/2007

DRAFT

EQUIPMENT DESCRIPTION:
385 HP DIESEL-FIRED EMERGENCY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration [District Rule 4201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity [District Rule 4101] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0 0015% sulfur by weight is to be used [District Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee [District Rule 4702] Federally Enforceable Through Title V Permit
5. 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
6. On and after May 3, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines) [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
7. On and after May 3, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
8. On and after May 3, 2013, the engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. On and after May 3, 2013, the engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
10. On and after May 3, 2013, the engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
11. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. 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 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

14 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

15 The permittee shall maintain monthly records that include the type of fuel purchased, the amount of fuel purchased, and the date of fuel purchase [District Rules 4702 and 2520, 9 4 and 17 CCR 93115] Federally Enforceable Through Title V Permit

16 The permittee shall maintain monthly records of emergency and non-emergency operation Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example load testing, weekly testing, rolling blackout, general area power outage, etc), and records of operational characteristics monitoring For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule [District Rules 4702 and 2520, 9 4, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

17 On and after May 3, 2013, the permittee shall maintain monthly records of all performance tests, opacity and visible emissions observations and required maintenance performed on the air pollution control and monitoring equipment [District Rule 1070, 2520, 9 4 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

18 On and after May 3, 2013, the permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i e , process equipment) or the air pollution control and monitoring equipment The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63 6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation [District Rule 1070, 2520, 9 4 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

19 All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request [District Rules 1070, 4702, 2520, 9 4, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

20 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 and District Rule 4801 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

21 A shield is granted from District Rule 4301 for this unit because the unit is direct fired and therefore doesn't meet the definition of "fuel burning equipment" in section 3 1 of the rule [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-20-3 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
1660 HP DIESEL-FIRED EMERGENCY IC ENGINE POWERING AN ELECTRICAL GENERATOR

DRAFT

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration [District Rule 4201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity [District Rule 4101] Federally Enforceable Through Title V Permit
3. Only CARB certified diesel fuel containing not more than 0 0015% sulfur by weight is to be used [District Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
4. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee [District Rule 4702] Federally Enforceable Through Title V Permit
5. 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
6. On and after May 3, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines) [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
7. On and after May 3, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
8. On and after May 3, 2013, the engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. On and after May 3, 2013, the engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
10. On and after May 3, 2013, the engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
11. This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. 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 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 20 hours per calendar year [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

14 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

15 The permittee shall maintain monthly records that include the type of fuel purchased, the amount of fuel purchased, and the date of fuel purchase [District Rules 4702 and 2520, 9 4 and 17 CCR 93115] Federally Enforceable Through Title V Permit

16 The permittee shall maintain monthly records of emergency and non-emergency operation Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example load testing, weekly testing, rolling blackout, general area power outage, etc), and records of operational characteristics monitoring For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule [District Rules 4702 and 2520, 9 4, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

17 On and after May 3, 2013, the permittee shall maintain monthly records of all performance tests, opacity and visible emissions observations and required maintenance performed on the air pollution control and monitoring equipment [District Rule 1070, 2520, 9 4 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

18 On and after May 3, 2013, the permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i e , process equipment) or the air pollution control and monitoring equipment The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63 6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation [District Rule 1070, 2520, 9 4 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

19 All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request [District Rules 1070, 4702, 2520, 9 4, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

20 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 and District Rule 4801 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

21 A shield is granted from District Rule 4301 for this unit because the unit is direct fired and therefore doesn't meet the definition of "fuel burning equipment" in section 3 1 of the rule [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-28-3 **EXPIRATION DATE:** 08/31/2007

DRAFT

EQUIPMENT DESCRIPTION:
BATCH CAN FILL STATION, 4 POSITION TURN SPOUT, AND INCOMING BATCH CONVEYOR DROP POINT SERVING THE TWO BATCH MIXERS AND SERVED BY A BAGHOUSE

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

7 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

8 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

9 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

10 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

12 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

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-29-4

EXPIRATION DATE: 08/31/2007

DRAFT

EQUIPMENT DESCRIPTION:
RAW MATERIAL BATCH MIXER #A SERVED BY A BAGHOUSE

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

7 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

8 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

9 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

10 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

12 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

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-30-4

EXPIRATION DATE: 08/31/2007

DRAFT

EQUIPMENT DESCRIPTION:
RAW MATERIAL BATCH MIXER #B SERVED BY A BAGHOUSE

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

7 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

8 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

9 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

10 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

12 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

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-31-3 **EXPIRATION DATE:** 08/31/2007

DRAFT

EQUIPMENT DESCRIPTION:
TWO COMPARTMENT RAW MATERIAL SILO #1 WITH A BAGHOUSE SERVING EACH COMPARTMENT

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

7 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

8 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

9 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

10 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

12 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

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-32-3 **EXPIRATION DATE:** 08/31/2007

DRAFT

EQUIPMENT DESCRIPTION:
FOUR COMPARTMENT RAW MATERIAL SILO #2 WITH A BAGHOUSE SERVING EACH COMPARTMENT

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

7 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

8 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

9 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

10 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

12 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

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-33-3 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
TWO COMPARTMENT RAW MATERIAL SILO #3 WITH A BAGHOUSE SERVING EACH COMPARTMENT

DRAFT

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

7 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

8 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

9 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

10 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

12 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

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

DRAFT

PERMIT UNIT: N-477-34-5 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
SHUTTLE CONVEYING SYSTEM ATOP THE BULK MATERIAL SILOS (3) SERVING THE SILOS AND BEING SERVED BY THE BULK MATERIAL RECEIVING ELEVATOR VENTED TO A P&F JI-4-104-600 PULSE JET BAGHOUSE

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

7 Maximum material throughput shall not exceed 7,830 tons in any one day [District NSR Rule] Federally Enforceable Through Title V Permit

8 PM10 emission concentration shall not exceed 0 00006 pounds per ton of material processed [District NSR Rule] Federally Enforceable Through Title V Permit

9 Daily log of bulk raw materials received, handled and stored shall be maintained The logs shall be retained on the premises and made available for District inspection upon request [District NSR Rule] Federally Enforceable Through Title V Permit

10 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 Records of dust collector maintenance, inspections, and repair shall be maintained The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

12 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

14 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-35-4 **EXPIRATION DATE:** 08/31/2007

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EQUIPMENT DESCRIPTION:
WAREROOM SECONDARY GLASS CRUSHERS AND CULLET CONVEYING SYSTEM, ALL VENTED TO A BAGHOUSE

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

7 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

8 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

9 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

10 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

12 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

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-39-3

EXPIRATION DATE: 08/31/2007

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EQUIPMENT DESCRIPTION:
GLASS ANNEALING LEHR SERVING THE GLASS MELTING FURNACE

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit
2. Sulfur compound emissions shall not exceed 0 2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes [District Rule 4801] Federally Enforceable Through Title V Permit
3. Operator shall maintain on file copies of all natural gas bills [District Rule 2520, 9 4 2] Federally Enforceable Through Title V Permit
4. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 and District Rule 4801 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit
5. Emissions shall not exceed 140 lb/hr of NOx, 200 lb/hr SOx or 10 lb/hr PM [District Rule 4301] Federally Enforceable Through Title V Permit
6. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4301 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit
7. This unit is exempt from the requirements of District Rule 4202 because the only emissions associated with the unit are due to combustion of liquid fuels [District Rule 4202] Federally Enforceable Through Title V Permit
8. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-43-4 **EXPIRATION DATE:** 08/31/2007

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EQUIPMENT DESCRIPTION:
132 HP NATURAL GAS-FIRED EMERGENCY IC ENGINE WITH A JOHNSON MATTHEY 3 WAY CATALYST (MODEL DURA-NOX 150) POWERING A 98KW KOHLER MODEL 80RZ ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration [District Rule 4201] Federally Enforceable Through Title V Permit
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is dark or darker than Ringelmann 1/4 or equivalent to 5% opacity [District NSR Rule] Federally Enforceable Through Title V Permit
3. The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit
4. The engine shall be fired on PUC quality natural gas only [District NSR Rule] Federally Enforceable Through Title V Permit
5. The unit shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit
6. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee [District Rule 4702] Federally Enforceable Through Title V Permit
7. 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
8. On and after October 19, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines) [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
9. On and after October 19, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
10. On and after October 19, 2013, the engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
11. On and after October 19, 2013, the engine's spark plugs shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. On and after October 19, 2013, the engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

14 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 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

15 This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

16 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

17 The permittee shall maintain monthly records of emergency and non-emergency operation Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example load testing, weekly testing, rolling blackout, general area power outage, etc), and records of operational characteristics monitoring For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule [District Rules 4702 and 2520, 9 4, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

18 On and after October 19, 2013, the permittee shall maintain monthly records of all performance tests, opacity and visible emissions observations and required maintenance performed on the air pollution control and monitoring equipment [District Rule 1070, 2520, 9 4 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

19 On and after October 19, 2013, the permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i e , process equipment) or the air pollution control and monitoring equipment The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63 6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation [District Rule 1070, 2520, 9 4 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

20 All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request [District Rules 1070, 4702, 2520, 9 4, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

21 If the unit is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

22 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 and District Rule 4801 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

23 A shield is granted from District Rule 4301 for this unit because the unit is direct fired and therefore doesn't meet the definition of "fuel burning equipment" in section 3 1 of the rule [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-44-3

EXPIRATION DATE: 08/31/2007

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EQUIPMENT DESCRIPTION:
13 MMBTU/HR LPG SYSTEM MAINTENANCE FLARE

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit
2. If the unit is fired on commercial grade LPG with sulfur content no greater than 0 008%, then maintain on file copies of all gas bills [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit
3. Sulfur compound emissions shall not exceed 2000 ppmv as SO2 [District Rule 4801] Federally Enforceable Through Title V Permit
4. Emissions from the flare shall not exceed either of the following limits 0 1330 lb NOx/MMBtu or 0 0027 lb VOC/MMBtu [District Rule 4311, 5 7] Federally Enforceable Through Title V Permit
5. The flame shall be present at all times when combustible gases are vented through the flare [District Rule 4311, 5 2] Federally Enforceable Through Title V Permit
6. The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares [District Rule 4311, 5 3] Federally Enforceable Through Title V Permit
7. Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, or an equivalent device, capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated [District Rule 4311, 5 4] Federally Enforceable Through Title V Permit
8. Source testing to measure NOx and VOC emissions from this unit shall be conducted at least once every twelve (12) months [District Rule 4311] Federally Enforceable Through Title V Permit
9. 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 30 days prior to testing [District Rule 4311] Federally Enforceable Through Title V Permit
10. NOx emissions in pounds per million BTU shall be determined by using EPA Method 19 [District Rule 4311] Federally Enforceable Through Title V Permit
11. NOx and O2 concentrations shall be determined by using EPA Method 3A, EPA Method 7E, or ARB 100 [District Rule 4311] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12 VOC, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case Method 25a may be used, and analysis of halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422 "Determination of Volatile organic Compounds in Emission from Stationary Sources" The VOC concentration in ppmv shall be converted to pounds per million Btu (lb/MMBtu) by using the following equation VOC in lb/MMBtu = [(ppmv) x (F, dscf/MMBtu/hr)]/[(1 135E06) x (20 9 - %O2)] Where F= As determined by EPA Method 19 [District Rule 4311, 6 3] Federally Enforceable Through Title V Permit

13 The results of each source test shall be submitted to the District within 45 days thereafter [District Rule 4311] Federally Enforceable Through Title V Permit

14 The operator of a flare subject to flare minimization plans pursuant to Section 5 8 of this rule shall notify the APCO of an unplanned flaring event within 24 hours after the start of the next business day or within 24 hours of their discovery, which ever occurs first The notification shall include the flare source identification, the start date and time, and the end date and time [District Rule 4311, 6 2] Federally Enforceable Through Title V Permit

15 Effective on and after July 1, 2012, and annually thereafter, the operator of a flare subject to flare minimization plans pursuant to Section 5 8 shall submit an annual report to the APCO that summarizes all Reportable Flaring Events as defined in Section 3 0 that occurred during the previous 12 month period The report shall be submitted within 30 days following the end of the twelve month period of the previous year [District Rule 4311, 6 2]

16 All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for APCO, ARB, and EPA for inspection upon request [District Rule 4311, 6 2] Federally Enforceable Through Title V Permit

17 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 and District Rule 4801 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

18 A shield is granted from District Rule 4301 for this unit because the unit is direct fired and therefore doesn't meet the definition of "fuel burning equipment" in section 3 1 of the rule [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-49-2 **EXPIRATION DATE:** 08/31/2007

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EQUIPMENT DESCRIPTION:
344 HP CATERPILLAR MODEL 3306 DITA EMERGENCY DIESEL-FIRED IC ENGINE POWERING A 240 KW ELECTRICAL GENERATOR SERVING A POTABLE WATER SUPPLY

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity [District Rule 4101, 5 1]
2. Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration [District Rule 4201] Federally Enforceable Through Title V Permit
3. Engine shall be equipped with a turbocharger [District NSR Rule] Federally Enforceable Through Title V Permit
4. Engine shall be equipped with an aftercooler or intercooler [District NSR Rule] Federally Enforceable Through Title V Permit
5. This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit
6. The exhaust stack shall vent vertically upward The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction [District Rule 4102] Federally Enforceable Through Title V Permit
7. Emissions from this IC engine shall not exceed any of the following limits 4 58 NOx-g/hp-hr, 0 69 CO-g/hp-hr, 0 14 VOC-g/hp-hr, or 0 141 PM10-g/hp-hr [District NSR Rule] Federally Enforceable Through Title V Permit
8. Only CARB certified diesel fuel containing not more than 0 0015% sulfur by weight is to be used [District Rule 4801 and 17 CCR 93115] Federally Enforceable Through Title V Permit
9. An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee [District Rule 4702] Federally Enforceable Through Title V Permit
10. This engine shall not be used 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
11. On and after May 3, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines) [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
12. On and after May 3, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit
13. On and after May 3, 2013, the engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

14 On and after May 3, 2013, the engine's air filter shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

15 On and after May 3, 2013, the engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

16 This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

17 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 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

18 This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 50 hours per calendar year [District Rule 4702, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

19 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

20 The permittee shall maintain monthly records that include the type of fuel purchased, the amount of fuel purchased, and the date of fuel purchase [District Rules 4702 and 2520, 9 4 and 17 CCR 93115] Federally Enforceable Through Title V Permit

21 The permittee shall maintain monthly records of emergency and non-emergency operation Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example load testing, weekly testing, rolling blackout, general area power outage, etc), and records of operational characteristics monitoring For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule [District Rules 4702 and 2520, 9 4, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

22 On and after May 3, 2013, the permittee shall maintain monthly records of all performance tests, opacity and visible emissions observations and required maintenance performed on the air pollution control and monitoring equipment [District Rule 1070, 2520, 9 4 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

23 On and after May 3, 2013, the permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i e , process equipment) or the air pollution control and monitoring equipment The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63 6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation [District Rule 1070, 2520, 9 4 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

24 All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request [District Rules 1070, 4702, 2520, 9 4, 17 CCR 93115, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

DRAFT

PERMIT UNIT: N-477-50-1 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
208 HP WAUKESHA MODEL F1197GU (SERIAL # 232866) NATURAL GAS-FIRED EMERGENCY IC ENGINE POWERING A WATER PUMP

PERMIT UNIT REQUIREMENTS

1 {14} Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration [District Rule 4201]

2 {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]

3 An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee [District Rule 4702] Federally Enforceable Through Title V Permit

4 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

5 On and after October 19, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines) [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

6 On and after October 19, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

7 On and after October 19, 2013, the engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

8 On and after October 19, 2013, the engine's spark plugs shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

9 On and after October 19, 2013, the engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

10 This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

11 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 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

12 This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 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

14 The permittee shall maintain monthly records of emergency and non-emergency operation Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example load testing, weekly testing, rolling blackout, general area power outage, etc), and records of operational characteristics monitoring For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule [District Rules 4702 and 2520, 9 4, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

15 On and after October 19, 2013, the permittee shall maintain monthly records of all performance tests, opacity and visible emissions observations and required maintenance performed on the air pollution control and monitoring equipment [District Rule 1070, 2520, 9 4 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

16 On and after October 19, 2013, the permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i e , process equipment) or the air pollution control and monitoring equipment The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63 6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation [District Rule 1070, 2520, 9 4 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

17 All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request [District Rules 1070, 4702, 2520, 9 4, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

18 If the unit is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

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San Joaquin Valley
Air Pollution Control District

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PERMIT UNIT: N-477-51-1 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
208 HP WAUKESHA MODEL F1197GU NATURAL GAS-FIRED EMERGENCY STANDBY IC ENGINE POWERING A WATER PUMP

PERMIT UNIT REQUIREMENTS

1 This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 {98} No air contaminant shall be released into the atmosphere which causes a public nuisance [District Rule 4102]

3 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration [District Rule 4201] Federally Enforceable Through Title V Permit

4 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, 5 0] Federally Enforceable Through Title V Permit

5 This engine shall only be fired on PUC regulated natural gas [District NSR Rule] Federally Enforceable Through Title V Permit

6 Emissions from this engine shall not exceed any of the following limits 22 0 g-NOx/hp-hr, 0 063 g-PM10/hp-hr, 1 3 g-CO/hp-hr, or 0 25 g-VOC/hp-hr [District NSR Rule] Federally Enforceable Through Title V Permit

7 An emergency situation is an unscheduled electrical power outage caused by sudden and reasonably unforeseen natural disasters or sudden and reasonably unforeseen events beyond the control of the permittee [District Rule 4702] Federally Enforceable Through Title V Permit

8 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

9 On and after October 19, 2013, the engine shall be in full compliance with 40 CFR Part 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines) [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

10 On and after October 19, 2013, the permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

11 On and after October 19, 2013, the engine's oil and filter shall be changed every 500 hours of operation or every 12 months, whichever comes first [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

12 On and after October 19, 2013, the engine's spark plugs shall be inspected every 1,000 hours of operation or every 12 months, whichever comes first, and replaced as necessary [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 On and after October 19, 2013, the engine's hoses and belts shall be inspected every 500 hours of operation or every 12 months, whichever comes first, and replaced as necessary [40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

14 This engine shall be equipped with an operational non-resettable elapsed time meter or other APCO approved alternative [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

15 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 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

16 This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per calendar year [District Rule 4702 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

17 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

18 The permittee shall maintain monthly records of emergency and non-emergency operation Records shall include the number of hours of emergency operation, the date and number of hours of all testing and maintenance operations, the purpose of the operation (for example load testing, weekly testing, rolling blackout, general area power outage, etc), and records of operational characteristics monitoring For units with automated testing systems, the operator may, as an alternative to keeping records of actual operation for testing purposes, maintain a readily accessible written record of the automated testing schedule [District Rules 4702 and 2520, 9 4, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

19 On and after October 19, 2013, the permittee shall maintain monthly records of all performance tests, opacity and visible emissions observations and required maintenance performed on the air pollution control and monitoring equipment [District Rule 1070, 2520, 9 4 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

20 On and after October 19, 2013, the permittee shall maintain monthly records of the occurrence and duration of each malfunction of operation (i e , process equipment) or the air pollution control and monitoring equipment The permittee shall also maintain monthly records of action taken during periods of malfunction to minimize emissions in accordance with §63 6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation [District Rule 1070, 2520, 9 4 and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

21 All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request [District Rules 1070, 4702, 2520, 9 4, and 40 CFR 63 Subpart ZZZZ] Federally Enforceable Through Title V Permit

22 If the unit is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

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ATTACHMENT B

Previous Title V Operating Permit

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

Permit to Operate

FACILITY: N-477 **EXPIRATION DATE:** 08/31/2007

LEGAL OWNER OR OPERATOR: PILKINGTON NORTH AMERICA, INC
MAILING ADDRESS: 500 E LOUISE AVE
LATHROP, CA 95330

FACILITY LOCATION: 500 E LOUISE AVE
LATHROP, CA 95330

FACILITY DESCRIPTION: FLAT GLASS MANUFACTURER

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

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

Seyed Sadredin
Executive Director / APCO

David Warner
Director of Permit Services

Oct 6 2011 9 57AM -- BUSHT

San Joaquin Valley
Air Pollution Control District

FACILITY: N-477-0-2 **EXPIRATION DATE:** 08/31/2007

FACILITY-WIDE REQUIREMENTS

1 The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary [District Rule 1100, 6 1, County Rules 110 (San Joaquin)] 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 (San Joaquin)] 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) (Permits Required) 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

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), by using EPA method 9 If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition [District Rule 4101, and County Rules 401 (San Joaquin)] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

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 water mining activities shall comply with the requirements for fugitive dust control in SJVUAPCD 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 and 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 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 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

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 permit 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 compliance with the following outdated SIP requirements Rule 401, San Joaquin County Rule 110, San Joaquin County Rule 202 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 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 (10/31/01), 4601, sections 5 1, 5 2, 5 4, 5 5, 6 1, and 6 2 (10/31/01), 8021 (11/15/01), 8031 (11/15/01), 8061 (11/15/01), A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

41 On July 15, 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]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-1-4 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
RIGHT AND LEFT SIDE DOGHOUSE VENTILATION SYSTEM VENTED TO A P&F RECOV-AIRE MODEL JT-10-560-7,880 BAGHOUSE AS THE PRIMARY DUST COLLECTOR OR VENTED TO TWO KIRK & BLOM CYCLONES, IN PARALLEL, AS A BACKUP SYSTEM FOR DUST CONTROL

PERMIT UNIT REQUIREMENTS

1 PM10 emissions shall not exceed 0 22 pounds per ton of material introduced into the furnace [District NSR Rule] Federally Enforceable Through Title V Permit

2 The furnace fill rate shall not exceed 750 tons per day [District NSR Rule] Federally Enforceable Through Title V Permit

3 There shall be no visible emissions from the baghouse [District NSR Rule] Federally Enforceable Through Title V Permit

4 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

5 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

6 Material removed from the baghouse or the cyclones shall be disposed of in a manner preventing entrainment into the atmosphere [District NSR Rule] Federally Enforceable Through Title V Permit

7 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

8 A log shall be maintained indicating the amount of material introduced into the furnace on a daily basis All records shall be retained and shall be made available for District inspection upon request [District NSR Rule] Federally Enforceable Through Title V Permit

9 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

10 Records of dust collector maintenance, inspections, and repair shall be maintained The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

12 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-3-3 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
MICRO INGREDIENT STORAGE AND HANDLING CONSISTING OF A 4 BIN DUMP HOPPER, ROUGE DUMP HOPPER, NITER DUMP HOPPER AND SCREEN, SCALE ENCLOSURE, AND CONVEYOR, ALL VENTED TO A BAGHOUSE

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

7 A daily log shall be kept on the premises consisting of the total daily weight of each type of raw material used for the manufacture of glass [District NSR Rule] Federally Enforceable Through Title V Permit

8 All records shall be retained and shall be made available for District inspection upon request [District NSR Rule] Federally Enforceable Through Title V Permit

9 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

10 Records of dust collector maintenance, inspections, and repair shall be maintained The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

12 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-4-5 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
SCALE GALLERY VENTED T0 6 BAGHOUSES #1 SERVES THE 2 SAND HOPPERS, #2 SERVES THE SALT CAKE HOPPER, #3 SERVES THE M/T HOPPER, #4 SERVES THE CALCIUM HOPPER, #5 SERVES THE DOLOMITE HOPPER, #6 SERVES THE SODA ASH HOPPERS AND THE GATHERING BELT

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

7 A daily log shall be kept on the premises consisting of the total daily weight of each type of raw material used for the manufacture of glass [District NSR Rule] Federally Enforceable Through Title V Permit

8 All records shall be retained and shall be made available for District inspection upon request [District NSR Rule] Federally Enforceable Through Title V Permit

9 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

10 Records of dust collector maintenance, inspections, and repair shall be maintained The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

12 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-5-3 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
RAW MATERIAL RECEIVING STATION CONSISTING OF AN UNLOADING HOPPER, AN UNDERGROUND CONVEYOR, AND A BELOW GROUND ELEVATOR UNDER AN ENCLOSURE SERVED BY A BAGHOUSE

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

7 Total material unloading and handling shall not exceed 7830 tons/day [District NSR Rule] Federally Enforceable Through Title V Permit

8 When unloading, provisions shall be made in order to minimize fugitive dust emissions from the unloading hopper [District NSR Rule] Federally Enforceable Through Title V Permit

9 PM10 emissions shall not exceed 0 013 lbs per ton of materials unloaded [District NSR Rule] Federally Enforceable Through Title V Permit

10 A daily log shall be kept on the premises showing the amount and type of materials received and unloaded [District NSR Rule] Federally Enforceable Through Title V Permit

11 All records shall be retained and shall be made available for District inspection upon request [District NSR Rule] Federally Enforceable Through Title V Permit

12 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

13 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

14 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

15 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

16 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

17 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

18 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-6-4 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
CULLET CONVEYING SYSTEM CONSISTING OF A CULLET INPUT HOPPER AND TWO COVERED CONVEYORS WITH THE TRANSFER POINTS VENTED TO A DLM3/8-15 BAGHOUSE, AND ONE COVERED CONVEYOR AND FURNACE INPUT HOPPER BOTH VENTED TO A DU-45R 12 BAGHOUSE

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All conveyors shall be covered or enclosed [District NSR Rule] Federally Enforceable Through Title V Permit

7 All conveyor transfer points shall be enclosed and vented to a baghouse [District NSR Rule] Federally Enforceable Through Title V Permit

8 The throughput of cullet shall not exceed 750 tons/day [District NSR Rule] Federally Enforceable Through Title V Permit

9 The drop chute spout shall be adequately shrouded to minimize the fugitive dust emissions [District NSR Rule] Federally Enforceable Through Title V Permit

10 The cumulative PM10 emission concentration from all emission points of this permit shall not exceed 0 011 lbs/ton of cullet throughput [District NSR Rule] Federally Enforceable Through Title V Permit

11 A daily log of cullet throughput shall be maintained [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

12 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

13 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

14 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

15 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

16 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

17 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

18 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-7-5 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION.
CULLET CONVEYING SYSTEM ENCLOSED GLASS GRINDER AND CONVEYOR ALL VENTED TO THE DLM 3/8-15 BAGHOUSE, A COVERED CONVEYOR, A CULLET DROP CHUTE VENTED TO THE DLM 3/8-15 BAGHOUSE, A CONCRETE CULLET RECEIVING BUNKER, TEN STORAGE BUNKERS, AND STORAGE PILES

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All conveyors shall be covered or enclosed [District NSR Rule] Federally Enforceable Through Title V Permit

7 All conveyor transfer points shall be enclosed and vented to a baghouse [District NSR Rule] Federally Enforceable Through Title V Permit

8 The throughput of cullet shall not exceed 750 tons/day [District NSR Rule] Federally Enforceable Through Title V Permit

9 The cullet input hopper shall be adequately shrouded to minimize the fugitive dust emissions [District NSR Rule] Federally Enforceable Through Title V Permit

10 The cumulative PM10 emission concentration from all emission points of this permit shall not exceed 0 053 lbs/ton of cullet throughput [District NSR Rule] Federally Enforceable Through Title V Permit

11 A daily log of cullet throughput shall be maintained [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

12 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

13 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

14 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

15 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

16 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

17 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

18 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-10-6 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
200 MMBTU/HR GLASS MELTING FURNACE

PERMIT UNIT REQUIREMENTS

1 The particulate matter emissions shall not exceed 0 1 grains/dscf in concentration [District Rule 4201] Federally Enforceable Through Title V Permit

2 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, by using EPA method 9 If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition [District Rule 4101, and San Joaquin County Rule 401] Federally Enforceable Through Title V Permit

3 No air contaminant shall be released into the atmosphere which causes a public nuisance [District Rule 4102]

4 The Pilkington 3R NOx control system shall be operated with a minimum control efficiency of 31 5% (on a 24-hour average) at all times, except for a period of time necessary to establish a baseline NOx emission rate for the purpose of determining the NOx control equipment efficiency Uncontrolled NOx emissions may be generated up to 16 hours per month (maximum of 4 hours per 24 hour period) when establishing the baseline NOx emissions rate [District NSR Rule] Federally Enforceable Through Title V Permit

5 The furnace fill rate shall not exceed 750 tons per day [District NSR Rule] Federally Enforceable Through Title V Permit

6 When firing on LPG, the daily fuel usage rate shall not exceed 64,066 gallons [District NSR Rule] Federally Enforceable Through Title V Permit

7 When firing on natural gas, the daily fuel usage rate shall not exceed 5,942,875 cubic feet [District NSR Rule] Federally Enforceable Through Title V Permit

8 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

9 All equipment, facilities, or systems installed or used to achieve compliance with the terms and conditions of the Federal Prevention of Significant Deterioration permit shall at all times be maintained in good working order and be operated as efficiently as possible to minimize air pollutant emissions [40 CFR 52 21] Federally Enforceable Through Title V Permit

10 The exhaust stack shall be equipped with a continuous emissions monitoring system (CEMS) for NOx, O2 and stack gas flow rate, and a continuous opacity monitoring system (COMS) Both the CEMS and COMS shall meet the requirements of 40 CFR parts 60 and 75 and shall be capable of monitoring emissions during startups and shutdowns as well as during normal operating conditions [District Rule 1080 and 40 CFR 52 21] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11 The operator shall report any violation of NOx emission standards indicated by the NOx CEMS or any violation of opacity standards as indicated by the COMS to the APCO within 96 hours [District Rule 1080] Federally Enforceable Through Title V Permit

12 The operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEMS or COMS The operator shall inform the APCO of the intent to shut down the CEMS or COMS at least 24 hours prior to the event [District Rule 1080] Federally Enforceable Through Title V Permit

13 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

14 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

15 The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable 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

16 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

17 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

18 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 ñ 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

19 The NOx emissions from the furnace shall not exceed the limit in section 5 3 of District Rule 4354, until such time that the unit is subject to the 1998 revisions to District Rule 4354 At that time, the lower NOx limitations of the revised rule shall apply [District Rule 4354] Federally Enforceable Through Title V Permit

20 NOx emissions (referenced as NO2) from the glass melting furnace shall not exceed 6,652 0 pounds during any one day when clear glass or E-Z Eye glass is being produced [District NSR Rule and 40 CFR 52 21] Federally Enforceable Through Title V Permit

21 NOx emissions (referenced as NO2) from the glass melting furnace shall not exceed 7,147 0 pounds during any one day when bronze glass is being produced [District NSR Rule and 40 CFR 52 21] Federally Enforceable Through Title V Permit

22 NOx emissions (referenced as NO2) shall not exceed 2,300,000 pounds during any one calendar year [District NSR Rule] Federally Enforceable Through Title V Permit

23 NOx emissions (referenced as NO2) shall not exceed 417 pounds per hour while clear glass or E-Z eye glass is being produced [District NSR Rule] Federally Enforceable Through Title V Permit

24 NOx emissions (referenced as NO2) shall not exceed 447 pounds per hour while bronze glass is being produced [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

25 CO emissions shall not exceed 1000 0 pounds during any one day [District NSR Rule] Federally Enforceable Through Title V Permit

26 VOC emissions shall not exceed 21 0 pounds during any one day [District NSR Rule] Federally Enforceable Through Title V Permit

27 Under no circumstance shall the Particulate Matter emissions exceed 30 0 pounds per hour [District NSR Rule and 40 CFR 52 21] Federally Enforceable Through Title V Permit

28 SOx emissions (referenced as SO2) shall not exceed 88 0 pounds per hour [District NSR Rule and 40 CFR 52 21] Federally Enforceable Through Title V Permit

29 Saltcake or Gypsum may be used as a batch constituent as a source of sulfate [District NSR Rule] Federally Enforceable Through Title V Permit

30 When using gypsum, the emissions of oxides of sulfur (referenced as SO2) shall not exceed 30 pounds per hour when the gypsum usage is less than or equal to 10 7 pounds per 1,000 pounds of sand in the batch [District NSR Rule and 40 CFR 52 21] Federally Enforceable Through Title V Permit

31 If gypsum usage exceeds 10 7 lb/1000 lb of sand in the batch, the maximum allowable emissions shall be determined by following equation SMAX = (6 3 * GYPRATE) - 39 5, where SMAX = allowable SOx (referenced as SO2) and GYPRATE = gypsum usage (lb/1000 lb sand) [District NSR Rule and 40 CFR 52 21] Federally Enforceable Through Title V Permit

32 When using saltcake, the emissions of oxides of sulfur (referenced as SO2) shall not exceed 30 pounds per hour when the saltcake usage is less than or equal to 8 pounds per 1000 pounds of sand in the batch [District NSR Rule] Federally Enforceable Through Title V Permit

33 If saltcake usage exceeds 8 lb/1000 lb of sand in the batch, the maximum allowable emissions shall be determined by the following equation SMAX = (8 5 * SLTRATE)-39 5, where SMAX=allowable SOx (referenced as SO2) and SLTRATE=saltcake usage (lb/1000 lb sand) [District NSR Rule] Federally Enforceable Through Title V Permit

34 The maximum allowable emission rate for Particulate Matter shall be determined by the following equations E = 3 59 * P**0 62 for P<30 tons/hour or 17 31 * P**0 16 for P>30 tons/hour [District Rule 4202] Federally Enforceable Through Title V Permit

35 The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0 2% by volume as measured on a dry basis over a 15 minute period [San Joaquin County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit

36 The permittee shall conduct source tests on the furnace at least once every year, under all applicable permitted operating scenarios (low gypsum, high gypsum, low salt cake, high salt cake), for PM, SO2 and NOx during periods of high furnace fill rate [District Rule 1081 and District Rule 2520 §9 3 2] Federally Enforceable Through Title V Permit

37 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

38 Source testing to measure NOx emissions shall be conducted using EPA Method 7E, EPA Method 19, or CARB Method 100 Other test methods may be substituted as approved by the District and EPA [District Rules 1081 and 4354 §6 5 1] Federally Enforceable Through Title V Permit

39 Source testing to measure Particulate Matter and SOx emissions shall be conducted using CARB combined Methods 5 and 8 Other test methods may be substituted as approved by the District and EPA [District Rule 1081 and 40 CFR 52 21] Federally Enforceable Through Title V Permit

40 Stack gas oxygen, excess air, and dry molecular weight shall be determined using EPA Method 3 or 3A, or CARB Method 100 Other test methods may be substituted as approved by the District and EPA [District Rules 1081 and 4354 §6 5 1] Federally Enforceable Through Title V Permit

41 Stack gas velocity and volumetric flow rate shall be determined using EPA Method 2 Other test methods may be substituted as approved by the District and EPA [District Rules 1081 and 4354 §6 5 1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

42 A daily log showing the date and duration of periods when the NOx control equipment is not operated shall be kept on site at all times [District NSR Rule] Federally Enforceable Through Title V Permit

43 Records shall be maintained and shall include the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEMS that have been installed pursuant to District Rule 1080, and emission measurements [District Rule 1080] Federally Enforceable Through Title V Permit

44 The operator shall maintain an operating log that includes on a monthly basis, the hours of operation of the furnace, type and quantity of fuel used in the furnace, and quantity of glass pulled This information shall be maintained and submitted to the APCO upon request [District Rule 4354] Federally Enforceable Through Title V Permit

45 A record of the cumulative annual NOx emissions shall be kept The record shall be updated at least monthly [District NSR Rule] Federally Enforceable Through Title V Permit

46 When applicable, daily records of natural gas or LPG usage shall be maintained [District Rule 2520 §9 3 2] Federally Enforceable Through Title V Permit

47 Daily records of furnace fill rate shall be maintained [District Rule 2520 §9 3 2] Federally Enforceable Through Title V Permit

48 Monthly records of salt cake and gypsum content per 1,000 lb of sand in each batch shall be maintained [District Rule 2520 §9 3 2] Federally Enforceable Through Title V Permit

49 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 and 40 CFR 52 21] Federally Enforceable Through Title V Permit

50 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201, San Joaquin County Rule 404, District Rule 4202 and San Joaquin County Rule 405 A permit shield is granted from these requirements [District Rule 2520 §13 2] Federally Enforceable Through Title V Permit

51 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

52 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4801 and San Joaquin County Rule 407 A permit shield is granted from these requirements [District Rule 2520 §13 2] Federally Enforceable Through Title V Permit

53 The requirements of District Rule 4301 and San Joaquin 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

54 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

55 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

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

COPY

AUTHORITY TO CONSTRUCT

PERMIT NO: N-477-10-9 **ISSUANCE DATE:** 02/14/2008

LEGAL OWNER OR OPERATOR: PILKINGTON NORTH AMERICA, INC
MAILING ADDRESS: 500 E LOUISE AVE
LATHROP, CA 95330

LOCATION: 500 E LOUISE AVE
LATHROP, CA 95330

EQUIPMENT DESCRIPTION:
MODIFICATION OF 200 MMBTU/HR GLASS MELTING FURNACE TO REPLACE THE EXISTING BURNERS WITH NEW ECLIPSE COMBUSTION MODEL WRSP10 XX LOW NOX BURNERS

CONDITIONS

1 The facility shall submit an application to modify the Title V permit, in accordance with the timeframes and procedures of District Rule 2520 [District Rule 2520]

2 The particulate matter emissions shall not exceed 0 1 grains/dscf in concentration [District Rule 4201] Federally Enforceable Through Title V Permit

3 No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101, by using EPA method 9 If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition [District Rule 4101, and San Joaquin County Rule 401] Federally Enforceable Through Title V Permit

4 No air contaminant shall be released into the atmosphere which causes a public nuisance [District Rule 4102]

5 The Pilkington 3R NOx control system shall be operated with a minimum control efficiency of 31 5% (on a 24-hour average) at all times, except for a period of time necessary to establish a baseline NOx emission rate for the purpose of determining the NOx control equipment efficiency Uncontrolled NOx emissions may be generated up to 16 hours per month (maximum of 4 hours per 24 hour period) when establishing the baseline NOx emissions rate [District NSR Rule] Federally Enforceable Through Title V Permit

6 The furnace fill rate shall not exceed 750 tons per day [District NSR Rule] 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

DAVID WARNER, Director of Permit Services
N-477-10-9 Feb 14 2008 3 07PM – KAHLONJ Joint Inspection NOT Required

7 When firing on LPG, the daily fuel usage rate shall not exceed 64,066 gallons [District NSR Rule] Federally Enforceable Through Title V Permit

8 When firing on natural gas, the daily fuel usage rate shall not exceed 5,942,875 cubic feet [District NSR Rule] Federally Enforceable Through Title V Permit

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 All equipment, facilities, or systems installed or used to achieve compliance with the terms and conditions of the Federal Prevention of Significant Deterioration permit shall at all times be maintained in good working order and be operated as efficiently as possible to minimize air pollutant emissions [40 CFR 52 21] Federally Enforceable Through Title V Permit

11 The exhaust stack shall be equipped with a continuous emissions monitoring system (CEMS) for NOx, O2 and stack gas flow rate, and a continuous opacity monitoring system (COMS) Both the CEMS and COMS shall meet the requirements of 40 CFR parts 60 and 75 and shall be capable of monitoring emissions during startups and shutdowns as well as during normal operating conditions [District Rule 1080 and 40 CFR 52 21] Federally Enforceable Through Title V Permit

12 The operator shall report any violation of NOx emission standards indicated by the NOx CEMS or any violation of opacity standards as indicated by the COMS to the APCO within 96 hours [District Rule 1080] Federally Enforceable Through Title V Permit

13 The operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEMS or COMS The operator shall inform the APCO of the intent to shut down the CEMS or COMS at least 24 hours prior to the event [District Rule 1080] Federally Enforceable Through Title V Permit

14 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

15 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

16 The exhaust stack shall be equipped with permanent provisions to allow collection of stack gas samples consistent with EPA test methods and shall be equipped with safe permanent provisions to sample stack gases with a portable 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

17 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

18 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

19 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

20 NOx emissions (referenced as NO2) shall not exceed 241 5 pounds per hour on a block 24-hour average [District Rules 2201 and 4354]

CONDITIONS CONTINUE ON NEXT PAGE

21 A block 24-hour average is defined as the arithmetic average of hourly NOx emission rates of a furnace as measured over 24 one-hour periods, daily, from 12 00 AM to 11 59 PM, excluding periods of system calibration [District Rule 4354]

22 NOx emissions (referenced as NO2) shall not exceed 4,410 pounds per day on a rolling 30-day average [District Rules 2201 and 4354]

23 A rolling 30-day average is defined as the arithmetic average of the daily emission rates of a furnace over a contiguous 30-day period, excluding periods of system calibration [District Rule 4354]

24 NOx emissions (referenced as NO2) shall not exceed 1,533,000 pounds during any one calendar year [District Rule 2201]

25 CO emissions shall not exceed 567 0 pounds during any one day [District Rule 2201]

26 VOC emissions shall not exceed 21 0 pounds during any one day [District Rule 2201]

27 Particulate Matter emissions shall not exceed 30 0 pounds per hour [District Rule 2201 and 40 CFR 52 21] Federally Enforceable Through Title V Permit

28 SOx emissions (referenced as SO2) shall not exceed 88 0 pounds per hour [District NSR Rule and 40 CFR 52 21] Federally Enforceable Through Title V Permit

29 Saltcake or Gypsum may be used as a batch constituent as a source of sulfate [District NSR Rule] Federally Enforceable Through Title V Permit

30 When using gypsum, the emissions of oxides of sulfur (referenced as SO2) shall not exceed 30 pounds per hour when the gypsum usage is less than or equal to 10 7 pounds per 1,000 pounds of sand in the batch [District NSR Rule and 40 CFR 52 21] Federally Enforceable Through Title V Permit

31 If gypsum usage exceeds 10 7 lb/1000 lb of sand in the batch, the maximum allowable emissions shall be determined by following equation SMAX = (6 3 * GYPRATE) - 39 5, where SMAX = allowable SOx (referenced as SO2) and GYPRATE = gypsum usage (lb/1000 lb sand) [District NSR Rule and 40 CFR 52 21] Federally Enforceable Through Title V Permit

32 When using saltcake, the emissions of oxides of sulfur (referenced as SO2) shall not exceed 30 pounds per hour when the saltcake usage is less than or equal to 8 pounds per 1000 pounds of sand in the batch [District NSR Rule] Federally Enforceable Through Title V Permit

33 If saltcake usage exceeds 8 lb/1000 lb of sand in the batch, the maximum allowable emissions shall be determined by the following equation SMAX = (8 5 * SLTRATE)-39 5, where SMAX=allowable SOx (referenced as SO2) and SLTRATE=saltcake usage (lb/1000 lb sand) [District NSR Rule] Federally Enforceable Through Title V Permit

34 The maximum allowable emission rate for Particulate Matter shall be determined by the following equations E = 3 59 * P**0 62 for P<30 tons/hour or 17 31 * P**0 16 for P>30 tons/hour [District Rule 4202] Federally Enforceable Through Title V Permit

35 The concentration of sulfur compounds in the exhaust from this unit shall not exceed 0 2% by volume as measured on a dry basis over a 15 minute period [San Joaquin County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit

36 Source testing to measure NOx, CO and VOC emissions shall be conducted within 60 days after retrofitting the furnace [District Rule 2201]

37 Source testing to measure NOx, CO, VOC, PM, and SO2 emissions shall be conducted at least once every calendar year under all applicable permitted operating scenarios (low gypsum, high gypsum, low salt cake, high salt cake) and during periods of high furnace fill rate [District Rules 1081, 2520 §9 3 2 and 4354]

38 Source test conditions shall be representative of normal operations, but not less than 60% of either the maximum pull rate or furnace's maximum fuel use capacity [District Rule 4354]

39 Source testing prior to or after the anniversary of the previous test is allowed as long as the proposed source test date falls within 6 to 18 month period from the anniversary date of the previous source test [District Rule 4354]

CONDITIONS CONTINUE ON NEXT PAGE

40 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

41 For NOx, CO and VOC source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply If two of the three runs individually demonstrate emissions above the applicable limit, the test cannot be used to demonstrate compliance for the furnace, even if the averaged emissions of all three test runs is less than the applicable limit [District Rule 4354]

42 Source testing to measure NOx emissions shall be conducted using EPA Method 7E, EPA Method 19, or CARB Method 100 Other test methods may be substituted as approved by the District and EPA [District Rules 1081 and 4354 §6 5 1] Federally Enforceable Through Title V Permit

43 Source testing to measure CO emissions shall be conducted using EPA Method 10, or CARB Method 100 Other test method may be substituted as approved by the District and EPA [District Rule 4354]

44 Source testing to measure VOC emissions shall be conducted using EPA Method 25 A, EPA Method 18 or ARB Method 422 Other test method may be substituted as approved by the District and EPA. [District Rule 4354]

45 Source testing to measure Particulate Matter and SOx emissions shall be conducted using CARB combined Methods 5 and 8 Other test methods may be substituted as approved by the District and EPA [District Rule 1081 and 40 CFR 52 21] Federally Enforceable Through Title V Permit

46 Stack gas oxygen, excess air, and dry molecular weight shall be determined using EPA Method 3 or 3A, or CARB Method 100 Other test methods may be substituted as approved by the District and EPA [District Rules 1081 and 4354 §6 5 1] Federally Enforceable Through Title V Permit

47 Stack gas velocity and volumetric flow rate shall be determined using EPA Method 2 Other test methods may be substituted as approved by the District and EPA [District Rules 1081 and 4354 §6 5 1] Federally Enforceable Through Title V Permit

48 A daily log showing the date and duration of periods when the NOx control equipment is not operated shall be kept on site at all times [District NSR Rule] Federally Enforceable Through Title V Permit

49 Records shall be maintained and shall include the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, any periods during which a continuous monitoring system or monitoring device is inoperative, maintenance of any CEMS that have been installed pursuant to District Rule 1080, and emission measurements [District Rule 1080] Federally Enforceable Through Title V Permit

50 Effective on and after 3/31/2008, the operator shall maintain an operating log that includes on a daily basis, the hours of operation of the furnace, type and quantity of fuel used in the furnace, quantity of glass pulled, and NOx emission rates in lb/ton of glass pulled This information shall be on-site during normal business hours and submitted to the APCO, ARB, or EPA upon request [District Rule 4354]

51 The permittee shall maintain records of the following a) type of glass produced, b) NOx emissions, in pounds per hour, on a block 24-hour average, c) SOx and PM emissions, in pounds per hour, based on a daily average, d) CO and VOC emissions, in pounds per day, e) NOx emissions, in pounds per day, on a rolling 30-day average, f.) cumulative NOx emissions, in pounds per calendar year, updated at least monthly [District Rules 2201 and 4354]

52 When applicable, daily records of natural gas or LPG usage shall be maintained [District Rule 2520 §9 3 2] Federally Enforceable Through Title V Permit

53 Daily records of furnace fill rate shall be maintained [District Rule 2520 §9 3 2] Federally Enforceable Through Title V Permit

54 Monthly records of salt cake and gypsum content per 1,000 lb of sand in each batch shall be maintained [District Rule 2520 §9 3 2] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

55 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 and 40 CFR 52 21] Federally Enforceable Through Title V Permit

56 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201, San Joaquin County Rule 404, District Rule 4202 and San Joaquin County Rule 405 A permit shield is granted from these requirements [District Rule 2520 §13 2] Federally Enforceable Through Title V Permit

57 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

58 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4801 and San Joaquin County Rule 407 A permit shield is granted from these requirements [District Rule 2520 §13 2] Federally Enforceable Through Title V Permit

59 The requirements of District Rule 4301 and San Joaquin 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

60 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

61 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

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-19-2 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION.
385 HP DIESEL-FIRED EMERGENCY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

2 Operation of the engine, for other than maintenance purposes, shall be limited to emergency use [District NSR Rule and District Rule 4701] Federally Enforceable Through Title V Permit

3 Operation of the engine for maintenance and testing purposes shall not exceed 200 hours per year [District NSR Rule and District Rule 4701] Federally Enforceable Through Title V Permit

4 The permittee shall maintain records of hours of emergency and non-emergency operation Records shall include the date, the number of hours of operation, the purpose of the operation (e g , load testing, weekly testing, rolling blackout, general area power outage, etc), and the sulfur content of the diesel fuel used Such records shall be retained on-site for a period of at least five years and made available for District inspection upon request [District NSR Rule, 2520, 9 3 2, and 9 4 2] 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 [San Joaquin County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit

6 Compliance with San Joaquin County Rule 407 and District Rule 4801 may be demonstrated by either using Air Resources Board regulated diesel fuel or by testing the sulfur content of each load of fuel and showing the sulfur content to be less than 3 0% by weight [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

7 If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0 05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

8 If the IC engine is not fired on ARB regulated diesel fuel, with a supplier certified sulfur content less than 0 05% by weight, then the owner or operator shall determine the sulfur content of each delivery of diesel fuel being fired in the IC engine using ASTM method D 2880 [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

9 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 and District Rule 4801 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

10 A shield is granted from District Rule 4301 for this unit because the unit is direct fired and therefore doesn't meet the definition of "fuel burning equipment" in section 3 1 of the rule [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-20-2 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
1660 HP DIESEL-FIRED EMERGENCY IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

2 Operation of the engine, for other than maintenance purposes, shall be limited to emergency use [District NSR Rule and District Rule 4701] Federally Enforceable Through Title V Permit

3 Operation of the engine for maintenance and testing purposes shall not exceed 200 hours per year [District NSR Rule and District Rule 4701] Federally Enforceable Through Title V Permit

4 The permittee shall maintain records of hours of emergency and non-emergency operation Records shall include the date, the number of hours of operation, the purpose of the operation (e g , load testing, weekly testing, rolling blackout, general area power outage, etc), and the sulfur content of the diesel fuel used Such records shall be retained on-site for a period of at least five years and made available for District inspection upon request [District NSR Rule, 2520, 9 3 2, and 9 4 2] 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 [San Joaquin County Rule 407 and District Rule 4801] Federally Enforceable Through Title V Permit

6 Compliance with District Rule 4801 may be demonstrated by either using Air Resources Board regulated diesel fuel or by testing the sulfur content of each load of fuel and showing the sulfur content to be less than 3 0% by weight [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

7 If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0 05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

8 If the IC engine is not fired on ARB regulated diesel fuel, with a supplier certified sulfur content less than 0 05% by weight, then the owner or operator shall determine the sulfur content of each delivery of diesel fuel being fired in the IC engine using ASTM method D 2880 [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

9 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 and District Rule 4801 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

10 A shield is granted from District Rule 4301 for this unit because the unit is direct fired and therefore doesn't meet the definition of "fuel burning equipment" in section 3 1 of the rule [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-28-2 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
BATCH CAN FILL STATION, 4 POSITION TURN SPOUT, AND INCOMING BATCH CONVEYOR DROP POINT SERVING THE TWO BATCH MIXERS AND SERVED BY A BAGHOUSE

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

7 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

8 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

9 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

10 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

12 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-29-3 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
RAW MATERIAL BATCH MIXER #A SERVED BY A BAGHOUSE

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

7 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

8 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

9 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

10 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

12 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-30-3 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
RAW MATERIAL BATCH MIXER #B SERVED BY A BAGHOUSE

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

7 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

8 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

9 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

10 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

12 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-31-2 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
TWO COMPARTMENT RAW MATERIAL SILO #1 WITH A BAGHOUSE SERVING EACH COMPARTMENT

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

7 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

8 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

9 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

10 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

12 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-32-2 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
FOUR COMPARTMENT RAW MATERIAL SILO #2 WITH A BAGHOUSE SERVING EACH COMPARTMENT

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

7 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

8 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

9 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

10 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

12 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-33-2 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
TWO COMPARTMENT RAW MATERIAL SILO #3 WITH A BAGHOUSE SERVING EACH COMPARTMENT

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

7 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

8 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

9 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

10 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

12 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-34-4 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
SHUTTLE CONVEYING SYSTEM ATOP THE BULK MATERIAL SILOS (3) SERVING THE SILOS AND BEING SERVED BY THE BULK MATERIAL RECEIVING ELEVATOR VENTED TO A P&F JI-4-104-600 PULSE JET BAGHOUSE

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

7 Maximum material throughput shall not exceed 7,830 tons in any one day [District NSR Rule] Federally Enforceable Through Title V Permit

8 PM10 emission concentration shall not exceed 0 00006 pounds per ton of material processed [District NSR Rule] Federally Enforceable Through Title V Permit

9 Daily log of bulk raw materials received, handled and stored shall be maintained The logs shall be retained on the premises and made available for District inspection upon request [District NSR Rule] Federally Enforceable Through Title V Permit

10 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 Records of dust collector maintenance, inspections, and repair shall be maintained The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

12 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

14 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

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 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-35-3 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
WAREROOM SECONDARY GLASS CRUSHERS AND CULLET CONVEYING SYSTEM, ALL VENTED TO A BAGHOUSE

PERMIT UNIT REQUIREMENTS

1 The baghouse cleaning frequency and duration shall be adjusted to optimize the control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location [District NSR Rule] Federally Enforceable Through Title V Permit

3 Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises [District NSR Rule] Federally Enforceable Through Title V Permit

4 Material removed from 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

5 There shall be no visible emissions from the baghouse and the associated ducting system [District NSR Rule] Federally Enforceable Through Title V Permit

6 All batch materials that become deposited on the ground or any part of the dust collection systems as a result of the batch handling, conveying, and storage shall be cleaned up immediately [District NSR Rule] Federally Enforceable Through Title V Permit

7 The baghouse and ductwork (if applicable) shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

8 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

9 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

10 Pressure gauges shall be inspected monthly and the results shall be recorded and made available for District inspection upon request Corrective actions shall be implemented on the control equipment if indicated by the inspections [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

12 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

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

13 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT. N-477-39-2 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
GLASS ANNEALING LEHR SERVING THE GLASS MELTING FURNACE

PERMIT UNIT REQUIREMENTS

1 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

2 Sulfur compound emissions shall not exceed 0 2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes [District Rule 4801] Federally Enforceable Through Title V Permit

3 Operator shall maintain on file copies of all natural gas bills [District Rule 2520, 9 4 2] Federally Enforceable Through Title V Permit

4 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 and District Rule 4801 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

5 Emissions shall not exceed 140 lb/hr of NOx, 200 lb/hr SOx or 10 lb/hr PM [District Rule 4301] Federally Enforceable Through Title V Permit

6 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4301 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

7 This unit is exempt from the requirements of District Rule 4202 because the only emissions associated with the unit are due to combustion of liquid fuels [District Rule 4202] Federally Enforceable Through Title V Permit

8 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4202 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-43-5 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
132 HP FORD MODEL LSG-8751-6005-A RICH-BURN NATURAL GAS-FIRED EMERGENCY IC ENGINE WITH A JOHNSON MATTHEY 3 WAY CATALYST (MODEL DURA-NOX 150) POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1 No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is dark or darker than Ringelmann 1/4 or equivalent to 5% opacity [District NSR Rule] Federally Enforceable Through Title V Permit

2 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit

3 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

4 The engine shall be equipped with a positive crankcase ventilation (PCV) system or a crankcase emissions control device of at least 90% control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

5 This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative [District Rule 4702] Federally Enforceable Through Title V Permit

6 The engine shall be fired on PUC quality natural gas only [District NSR Rule] Federally Enforceable Through Title V Permit

7 This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 100 hours per year [District NSR Rule and District Rule 4702] Federally Enforceable Through Title V Permit

8 During periods of maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emissions control system supplier (e g oil pressure, exhaust gas temperature, etc) [District Rule 4702] Federally Enforceable Through Title V Permit

9 A daily log of operating hours shall be kept on the premises at all times and made available for District inspection upon request [District NSR Rule] Federally Enforceable Through Title V Permit

10 The unit shall be inspected weekly while in operation for visible emissions and the results shall be recorded and made available for District inspection upon request [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

11 If the unit is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

12 Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 and District Rule 4801 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

13 A shield is granted from District Rule 4301 for this unit because the unit is direct fired and therefore doesn't meet the definition of "fuel burning equipment" in section 3 1 of the rule [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

14 The permittee shall maintain records of hours of emergency and non-emergency operation Records shall include the date, the number of hours of operation, the purpose of the operation (e g , load testing, weekly testing, rolling blackout, general area power outage, etc), the type of fuel used, and records of operational characteristics monitoring Such records shall be retained on-site for a period of at least five years and made available for District inspection upon request [District Rule 4702] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-44-2 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
13 MMBTU/HR LPG SYSTEM MAINTENANCE FLARE

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration Compliance shall be demonstrated by compliance with the other terms and conditions of this permit and by proper operation of the equipment [District Rule 4201] Federally Enforceable Through Title V Permit
2. If the unit is fired on commercial grade LPG with sulfur content no greater than 0 008%, then maintain on file copies of all gas bills [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit
3. Sulfur compound emissions shall not exceed 2000 ppmv as SO2 [District Rule 4801] Federally Enforceable Through Title V Permit
4. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201 and District Rule 4801 A permit shield is granted from these requirements [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit
5. A shield is granted from District Rule 4301 for this unit because the unit is direct fired and therefore doesn't meet the definition of "fuel burning equipment" in section 3 1 of the rule [District Rule 2520, 13 2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-49-1 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
344 HP CATERPILLAR MODEL 3306 DITA EMERGENCY DIESEL-FIRED IC ENGINE POWERING A 240 KW ELECTRICAL GENERATOR SERVING A POTABLE WATER SUPPLY

PERMIT UNIT REQUIREMENTS

1 No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity [District Rule 4101, 5 1]

2 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration [District Rule 4201] Federally Enforceable Through Title V Permit

3 Engine shall be equipped with a turbocharger [District NSR Rule] Federally Enforceable Through Title V Permit

4 Engine shall be equipped with an aftercooler or intercooler [District NSR Rule] Federally Enforceable Through Title V Permit

5 This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

6 The exhaust stack shall vent vertically upward The vertical exhaust flow shall not be impeded by a rain cap, roof overhang, or any other obstruction [District Rule 4102] Federally Enforceable Through Title V Permit

7 The sulfur content of the diesel fuel used shall not exceed 0 05% by weight [District NSR Rule] Federally Enforceable Through Title V Permit

8 Emissions from this IC engine shall not exceed any of the following limits 4 58 NOx-g/hp-hr, 0 69 CO-g/hp-hr, 0 14 VOC-g/hp-hr, or 0 141 PM10-g/hp-hr [District NSR Rule] Federally Enforceable Through Title V Permit

9 The engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations Operation of the engine for maintenance, testing, and required regulatory purposes shall not exceed 200 hours per year [District Rule 4701, 4 2 1 and District NSR Rule] Federally Enforceable Through Title V Permit

10 The permittee shall maintain records of hours of emergency and non-emergency operation Records shall include the date, the number of hours of operation, the purpose of the operation (e g , load testing, weekly testing, rolling blackout, general area power outage, etc), and the sulfur content of the diesel fuel used Such records shall be retained on-site for a period of at least five years and made available for District inspection upon request [District Rules 1070 and 2520, 9 3 2 and 9 4 2] Federally Enforceable Through Title V Permit

11 If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0 05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications [District Rule 2520, 9 3 2] Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-50-0 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
208 HP WAUKESHA MODEL F1197GU (SERIAL # 232866) NATURAL GAS-FIRED EMERGENCY IC ENGINE POWERING A WATER PUMP

PERMIT UNIT REQUIREMENTS

1 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration [District Rule 4201]

2 The permittee shall operate a nonresettable elapsed operating time meter In lieu of a nonresettable elapsed operating time meter, the owner of an emergency engine may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO [District Rules 4701 and 4702]

3 The engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations Operation of the engine for maintenance and testing purposes shall not exceed 100 hours per year, as determined by an operational nonresettable elapsed operating time meter [District Rules 4701 and 4702]

4 The permittee shall maintain records of hours of emergency and non-emergency operation Records shall include the date, the number of hours of operation, the purpose of the operation (e g , load testing, weekly testing, rolling blackout, general area power outage, etc), and the type of fuel used Such records shall be retained on-site for a period of at least five years and made available for District inspection upon request [District Rules 1070, 4701, and 4702]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-477-51-0 **EXPIRATION DATE:** 08/31/2007

EQUIPMENT DESCRIPTION:
208 HP WAUKESHA MODEL F1197GU NATURAL GAS-FIRED EMERGENCY STANDBY IC ENGINE POWERING A WATER PUMP

PERMIT UNIT REQUIREMENTS

1 This engine shall be equipped with either a positive crankcase ventilation (PCV) system that recirculates crankcase emissions into the air intake system for combustion, or a crankcase emissions control device of at least 90% control efficiency [District NSR Rule] Federally Enforceable Through Title V Permit

2 No air contaminant shall be released into the atmosphere which causes a public nuisance [District Rule 4102]

3 Particulate matter emissions shall not exceed 0 1 grains/dscf in concentration [District Rule 4201] Federally Enforceable Through Title V Permit

4 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, 5 0] Federally Enforceable Through Title V Permit

5 This engine shall only be fired on PUC regulated natural gas [District NSR Rule] Federally Enforceable Through Title V Permit

6 By June 1, 2007, the permittee shall install, maintain, and operate a nonresettable elapsed operating time meter In lieu of installing a nonresettable time meter, the owner of an engine may use an alternative device, method, or technique, in determining operating time provided that the alternative is approved by the APCO and is allowed by Permit-to-Operate or Stationary Equipment Registration condition The owner of the engine shall properly maintain and operate the time meter or alternative device in accordance with the manufacturer's instructions [District NSR Rule and District Rules 4701, 6 1 2, and 4702, 5 7 4] Federally Enforceable Through Title V Permit

7 The engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations Operation of the engine for maintenance and testing purposes shall not exceed 100 hours per year, as determined by an operational nonresettable elapsed operating time meter [District NSR Rule and District Rules 4701, 3 22, and 4702, 4 2 1] Federally Enforceable Through Title V Permit

8 Emissions from this engine shall not exceed any of the following limits 22 0 g-NOx/hp-hr, 0 063 g-PM10/hp-hr, 1 3 g-CO/hp-hr, or 0 25 g-VOC/hp-hr [District NSR Rule] Federally Enforceable Through Title V Permit

9 This engine shall be properly operated and maintained as recommended by the engine manufacturer or emission control system supplier [District Rule 4702, 5 7 2] Federally Enforceable Through Title V Permit

10 During periods of maintenance, testing, and required regulatory purposes, the permittee shall monitor operational characteristics recommended by the unit manufacturer or emission control system supplier (e g , oil pressure, oil temperature, etc) Monitoring shall not be required if the unit is not in operation, i e the unit need not be started solely to perform monitoring [District Rule 4702, 5 7 3] Federally Enforceable Through Title V Permit

11 Records of monitoring of the operational characteristics of the unit shall be maintained [District Rule 4702, 6 2 3] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

12 The permittee shall maintain records of hours of emergency and non-emergency operation Records shall include the date, the number of hours of operation, the purpose of the operation (e g , load testing, weekly testing, rolling blackout, general area power outage, etc), and the type and quantity (cubic feet of gas or gallons of liquid) of fuel used Such records shall be retained on-site for a period of at least five years and made available for District inspection upon request , [District Rules 1070, 4701, 6 2 3, and 4702, 6 2 3] Federally Enforceable Through Title V Permit

ATTACHMENT C

Detailed Facility List

Detailed Facility Report

For Facility=477 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

PILKINGTON NORTH AMERICA, INC	FAC #	**N 477**	TYPE	**TitleV**	EXPIRE ON	08/31/2007
500 E LOUISE AVE	STATUS	**A**	TOXIC ID	**20755**	AREA	5 /
LATHROP, CA 95330	TELEPHONE	**2098586202**			INSP DATE	01/12

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-477-1-4	100 HP	3020-01 D	1	314 00	314 00	A	RIGHT AND LEFT SIDE DOGHOUSE VENTILATION SYSTEM VENTED TO A P&F RECOV-AIRE MODEL JT-10-560-7,880 BAGHOUSE AS THE PRIMARY DUST COLLECTOR OR VENTED TO TWO KIRK & BLOM CYCLONES, IN PARALLEL AS A BACKUP SYSTEM FOR DUST CONTROL
N-477-3-3	15 HP	3020-01 A	1	87 00	87 00	A	MICRO INGREDIENT STORAGE AND HANDLING CONSISTING OF A 4 BIN DUMP HOPPER ROUGE DUMP HOPPER, NITER DUMP HOPPER AND SCREEN, SCALE ENCLOSURE, AND CONVEYOR, ALL VENTED TO A BAGHOUSE
N-477-4-5	12 HP	3020-01 A	1	87 00	87 00	A	SCALE GALLERY VENTED T0 6 BAGHOUSES #1 SERVES THE 2 SAND HOPPERS, #2 SERVES THE SALT CAKE HOPPER, #3 SERVES THE M/T HOPPER #4 SERVES THE CALCIUM HOPPER, #5 SERVES THE DOLOMITE HOPPER, #6 SERVES THE SODA ASH HOPPERS AND THE GATHERING BELT
N-477-5-3	15 HP	3020-01 A	1	87 00	87 00	A	RAW MATERIAL RECEIVING STATION CONSISTING OF AN UNLOADING HOPPER, AN UNDERGROUND CONVEYOR, AND A BELOW GROUND ELEVATOR UNDER AN ENCLOSURE SERVED BY A BAGHOUSE
N-477-6-4	40 HP	3020-01 B	1	117 00	117 00	A	CULLET CONVEYING SYSTEM CONSISTING OF A CULLET INPUT HOPPER AND TWO COVERED CONVEYORS WITH THE TRANSFER POINTS VENTED TO A DLM3/8-15 BAGHOUSE, AND ONE COVERED CONVEYOR AND FURNACE INPUT HOPPER BOTH VENTED TO A DU-45R 12 BAGHOUSE
N-477-7-5	145 HP	3020-01 D	1	314 00	314 00	A	CULLET CONVEYING SYSTEM ENCLOSED GLASS GRINDER AND CONVEYOR ALL VENTED TO THE DLM 3/8-15 BAGHOUSE, A COVERED CONVEYOR, A CULLET DROP CHUTE VENTED TO THE DLM 3/8-15 BAGHOUSE, A CONCRETE CULLET RECEIVING BUNKER, TEN STORAGE BUNKERS, AND STORAGE PILES
N-477-10-6	200 000 kBtu/hr	3020-02 H	1	1 030 00	1,030 00	A	200 MMBTU/HR GLASS MELTING FURNACE
N-477-19-2	385 HP	3020-10 C	1	240 00	240 00	A	385 HP DIESEL-FIRED EMERGENCY IC ENGINE POWERING AN ELECTRICAL GENERATOR
N-477-20-2	1660 HP	3020-10 F	1	749 00	749 00	A	1660 HP DIESEL-FIRED EMERGENCY IC ENGINE POWERING AN ELECTRICAL GENERATOR
N-477-28-2	10 5 HP	3020-01 A	1	87 00	87 00	A	BATCH CAN FILL STATION 4 POSITION TURN SPOUT, AND INCOMING BATCH CONVEYOR DROP POINT SERVING THE TWO BATCH MIXERS AND SERVED BY A BAGHOUSE
N-477-29-3	2 HP	3020-01 A	1	87 00	87 00	A	RAW MATERIAL BATCH MIXER #A SERVED BY A BAGHOUSE
N-477-30-3	2 HP	3020-01 A	1	87 00	87 00	A	RAW MATERIAL BATCH MIXER #B SERVED BY A BAGHOUSE
N-477-31-2	2 HP	3020-01 A	1	87 00	87 00	A	TWO COMPARTMENT RAW MATERIAL SILO #1 WITH A BAGHOUSE SERVING EACH COMPARTMENT

Detailed Facility Report

For Facility=477 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
N-477-32-2	4 HP	3020-01 A	1	87 00	87 00	A	FOUR COMPARTMENT RAW MATERIAL SILO #2 WITH A BAGHOUSE SERVING EACH COMPARTMENT
N-477-33-2	2 HP	3020-01 A	1	87 00	87 00	A	TWO COMPARTMENT RAW MATERIAL SILO #3 WITH A BAGHOUSE SERVING EACH COMPARTMENT
N-477-34-4	25 HP	3020-01 B	1	117 00	117 00	A	SHUTTLE CONVEYING SYSTEM ATOP THE BULK MATERIAL SILOS (3) SERVING THE SILOS AND BEING SERVED BY THE BULK MATERIAL RECEIVING ELEVATOR VENTED TO A P&F JI-4-104-600 PULSE JET BAGHOUSE
N-477-35-3	125 HP	3020-01 D	1	314 00	314 00	A	WAREROOM SECONDARY GLASS CRUSHERS AND CULLET CONVEYING SYSTEM, ALL VENTED TO A BAGHOUSE
N-477-39-2	18,200 KBTU/HR	3020-02 H	1	1 030 00	1 030 00	A	GLASS ANNEALING LEHR SERVING THE GLASS MELTING FURNACE
N-477-43-5	132 BHP NATURAL GAS-FIRED IC ENGINE	3020-10 B	1	117 00	117 00	A	132 HP FORD MODEL LSG-8751-6005-A RICH-BURN NATURAL GAS-FIRED EMERGENCY IC ENGINE WITH A JOHNSON MATTHEY 3 WAY CATALYST (MODEL DURA-NOX 150) POWERING AN ELECTRICAL GENERATOR
N-477-44-2	13 000 KBTU	3020-02 G	1	815 00	815 00	A	13 MMBTU/HR LPG SYSTEM MAINTENANCE FLARE
N-477-49-1	344 BHP IC ENGINE	3020-10 C	1	240 00	240 00	A	344 HP CATERPILLAR MODEL 3306 DITA EMERGENCY DIESEL-FIRED IC ENGINE POWERING A 240 KW ELECTRICAL GENERATOR SERVING A POTABLE WATER SUPPLY
N-477-50-0	208 HP IC Engine	3020-10 C	1	240 00	240 00	A	208 HP WAUKESHA MODEL F1197GU (SERIAL # 232866) NATURAL GAS-FIRED EMERGENCY IC ENGINE POWERING A WATER PUMP
N-477-51-0	208 BHP	3020-10 C	1	240 00	240 00	A	208 HP WAUKESHA MODEL F1197GU NATURAL GAS-FIRED EMERGENCY STANDBY IC ENGINE POWERING A WATER PUMP

Number of Facilities Reported 1