

Bay Area Air Quality Management District

939 Ellis Street
San Francisco, CA 94109
(415) 771-6000

Final

MAJOR FACILITY REVIEW PERMIT

Issued To:

Owens-Brockway Glass Container Inc.
Facility # A0030

Facility Address:

3600 Alameda Avenue
Oakland, CA 94601

Mailing Address:

One Seagate
Toledo, Ohio 43666

Responsible Official

Thomas C. Bost, Plant Manager
510-436-2056

Facility Contact

Bill Boscacci
510-436-2166

Type of Facility: Glass Manufacturing Plant
Primary SIC: 3221
Product: Glass

BAAQMD Permit Division Contact:
Weyman Lee

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Jeff McKay for Jack P. Broadbent
Jack P. Broadbent, Executive Officer/Air Pollution Control Officer

March 9, 2011

Date

TABLE OF CONTENTS

I.	STANDARD CONDITIONS	2
II.	EQUIPMENT LIST	6
III.	GENERALLY APPLICABLE REQUIREMENTS	11
IV.	SOURCE-SPECIFIC APPLICABLE REQUIREMENTS	14
V.	SCHEDULE OF COMPLIANCE	30
VI.	PERMIT CONDITIONS	30
VII.	APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS	41
VIII.	TEST METHODS	54
IX.	PERMIT SHIELD	55
X.	REVISION HISTORY	56
XI.	GLOSSARY	58

I. STANDARD CONDITIONS

A. Administrative Requirements

The permit holder shall comply with all applicable requirements in the following regulations:

- BAAQMD Regulation 1 - General Provisions and Definitions
(as amended by the District Board on 5/2/01);
SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 6/28/99);
BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on 6/15/05);
SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA through 1/26/99);
BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on 6/15/05);
SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA through 1/26/99);
BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on 12/21/04); and
SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through 1/26/99).
BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on 4/16/03).

B. Conditions to Implement Regulation 2, Rule 6, Major Facility Review

1. This Major Facility Review Permit was issued on March 21, 2006 and expires on March 20, 2011. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than October 19, 2010, and no earlier than March 20, 2010. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after March 20, 2011.** If the permit renewal has not been issued by March 20, 2011, but a complete application for renewal has been submitted in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application. (Regulation 2-6-307, 404.2, 407, & 409.6; MOP Volume II, Part 3, §4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)
4. This permit may be modified, revoked, reopened and reissued, or terminated for

I. Standard Conditions

- cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
5. The filing of a request by the facility for a permit modification, revocation and re-issuance, or termination, or the filing of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
 6. This permit does not convey any property rights of any sort, or any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
 7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
 8. Any records required to be maintained pursuant to this permit which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
 9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B - Public Information, Confidentiality of Business Information. (40 CFR Part 2)
 10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions or the potential to emit for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)
 11. The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. The certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. The certifications shall be signed by a responsible official for the facility. (MOP Volume II, Part 3, §4.11)
 12. The permit holder is responsible for compliance, and certification of compliance, with all conditions of the permit, regardless whether it acts through employees, agents, contractors, or subcontractors. (Regulation 2-6-307)

C. Requirement to Pay Fees

The permit holder shall pay annual fees in accordance with District Regulation 3, including Schedule P. (Regulation 2-6-402 & 409.13, Regulation 3; MOP Volume II, Part 3, §4.12)

D. Inspection and Entry

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment that is subject to this permit to the APCO and/or to his or her designee.

I. Standard Conditions

(Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

E. Records

1. The permit holder must provide any information, records, and reports requested or specified by the APCO. (Regulation 1-441, Regulation 2-6-409.4)
2. Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of entry. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, §4.7)

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. Reports shall be for the following periods: July 1st through December 31st and January 1st through June 30th, and are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the non-compliance. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

Director of Compliance and Enforcement
Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109
Attn: Title V Reports

(Regulation 2-6-502, Regulation 3; MOP Volume II, Part 3, §4.7)

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be January 1st to December 31st. The certification shall be submitted by January 31st of each year. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification shall be sent to the Environmental Protection Agency at the following address:

Director of the Air Division
USEPA, Region IX

I. Standard Conditions

75 Hawthorne Street
San Francisco, CA 94105
Attention: Air-3

(MOP Volume II, Part 3, §4.5 and 4.15)

H. Emergency Provisions

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. (MOP Volume II, Part 3, §4.8)
3. The granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement. (MOP Volume II, Part 3, §4.8)

I. Severability

In the event that any provision of this permit is invalidated by a court or tribunal of competent jurisdiction, or by the Administrator of the EPA, all remaining portions of the permit shall remain in full force and effect. (Regulation 2-6-409.5; MOP Volume II, Part 3, §4.10)

J. Miscellaneous Conditions

1. The maximum capacity for each source as shown in Table II-A is the maximum allowable capacity. Exceedance of the maximum allowable capacity for any source is a violation of Regulation 2, Rule 1, Section 301. (Regulation 2-1-301)

II. EQUIPMENT LIST

Table II - A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Maximum Capacity
S-10	Glass Melting Furnace "C" Natural Gas Fired	External Natural Gas Combustion, Non- Premix	NA	405 tons/day, 51 MM BTU/hr max
S-11	Glass Melting Furnace "D" Natural Gas Fired	External Natural Gas Combustion, Non- Premix	NA	357 tons/day, 53 MM BTU/hr max
S-12	Glass Melting Furnace "E" Natural Gas Fired	External Natural Gas Combustion, Non- Premix	NA	314 tons/day, 44 MM BTU/hr max
S-25	Hot End Bottle Surface Treatment	monobutyltin trichloride (MBTT)	NA	950 gals/yr
S-27	Hot End Bottle Surface Treatment	monobutyltin trichloride (MBTT)	NA	950 gals/yr
S-29	Hot End Bottle Surface Treatment	monobutyltin trichloride (MBTT)	NA	950 gals/yr
S-30	Hot End Bottle Surface Treatment	monobutyltin trichloride (MBTT)	NA	950 gals/yr
S-32	Hot End Bottle Surface Treatment	monobutyltin trichloride (MBTT)	NA	950 gals/yr
S-33	Hot End Bottle Surface Treatment	monobutyltin trichloride (MBTT)	NA	950 gals/yr
S-39	Raw material unloading station	Not available	NA	60 tph max
S-41	Batch Mixer A	T.L. Smith	Serial #272	50 hp, 55 tons per hour
S-42	Batch mixer B	T.L. Johnson	Serial #711	60 hp, 55 tons per hour
S-43	Cullet crusher	Kue-Ken, Jaw Type	Model #56	110 tons/hr max
S-44	Sand elevator	Batching, Gravel/Sand	NA	NA
S-48	Lime storage bins	Lime	NA	NA
S-50	Soda ash storage bins	Material storage	NA	4 tons/hr max
S-52	Sand storage bins	Gravel / sand	NA	NA
S-56	Cullet storage bins	Glass	NA	NA
S-57	Ecology cullet elevator	Standard metal	NA	100 tons/hr max
S-58	Salt cake storage area	Salt cake	NA	20 tons/hr max

II. Equipment List

Table II - A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Maximum Capacity
S-63	Mold repair shop	Solvent cleaning	NA	385 gals/yr net solvent usage
S-67	Mold repair coating oven (electric)	NA	NA	0.7 tons/hr max
S-76	Forming machines	IS-8E Double Gob	NA	0.4 gallons lube oil per hour
S-77	Forming machines	IS-6F Double Gob	NA	0.4 gallons lube oil per hour
S-79	Forming machines	IS-8E Double Gob	NA	0.4 gallons lube oil per hour
S-80	Forming machines	IS-6E Double Gob	NA	0.4 gallons lube oil per hour
S-81	Forming machines	IS-6E Double Gob	NA	0.4 gallons lube oil per hour
S-83	Forming machines	IS-6E Double Gob	NA	0.4 gallons lube oil per hour
S-84	Forming machines	IS-6E Double Gob	NA	0.4 gallons lube oil per hour
S-97	Baler	Miscellaneous Chemicals	NA	2 tons/hr max
S-130	Emergency electric Generator, Natural Gas fired	Waukaesha	F1197GU	188 hp
S-131	Emergency Diesel Engine	Fairbanks	50A6T-6	335 hp
S-132	Emergency Diesel Engine	Caterpillar	379A	610 hp
S-133	Emergency Diesel Engine	Allis Chalmer	25000	369 hp
S-135	Forming Machines	IS-8E Double Gob	NA	0.4 gallons lube oil per hour
S-136	Hot End Bottle Surface Treatment	monobutyltin trichloride (MBTT)	NA	950 gals/yr

II. Equipment List

Table II - B - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-1	Pulseflo Fabric Filter, Tin System	S-25, S-27, S-29, S-30, S-32, S-33, S-136	BAAQMD 6-301	1" – 9" H ₂ O	Ringelmann 1 for <= 3 min/hr
		S-25, S-27, S-29, S-30, S-32, S-33, S-136	BAAQMD 6-310		0.15 gr/dscf
A-3	Corrugated Cyclone	S-97	BAAQMD 6-301		Ringelmann 1 for <= 3 min/hr
		S-97	BAAQMD 6-310		0.15 gr/dscf
A-9	ESP	S-11, S-12	BAAQMD 6-301		Ringelmann 1 for <= 3 min/hr
		S-11, S-12	BAAQMD 6-310		0.15 gr/dscf
A-41	Dust Collector	S-41	BAAQMD 6-301	1" – 15" H ₂ O	Ringelmann 1 for <= 3 min/hr
		S-41	BAAQMD 6-310	1" – 15" H ₂ O	0.15 gr/dscf
A-42	Dust Collector	S-42	BAAQMD 6-301	1" – 15" H ₂ O	Ringelmann 1 for <= 3 min/hr
		S-42	BAAQMD 6-310	1" – 15" H ₂ O	0.15 gr/dscf
A-48	Dust Collector	S-48	BAAQMD 6-301	1" – 15" H ₂ O	Ringelmann 1 for <= 3 min/hr
		S-48	BAAQMD 6-310	1" – 15" H ₂ O	0.15 gr/dscf

II. Equipment List

Table II - B - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-50	Dust Collector	S-50	BAAQMD 6-301	1" -15" H2O	Ringelmann 1 for <= 3 min/hr
		S-50	BAAQMD 6-310	1" -15" H2O	0.15 gr/dscf
A-58	Dust Collector	S-58	BAAQMD 6-301	1" -15" H2O	Ringelmann 1 for <= 3 min/hr
		S-58	BAAQMD 6-310	1" -15" H2O	0.15 gr/dscf
A-520	Dust Collector	S-52	BAAQMD 6-301	1" -15" H2O	Ringelmann 1 for <= 3 min/hr ,
		S-52	BAAQMD 6-310	1" -15" H2O	0.15 gr/dscf
A-521	Dust Collector	S-52	BAAQMD 6-301	1" -15" H2O	Ringelmann 1 for <= 3 min/hr
		S-52	BAAQMD 6-310	1" -15" H2O	0.15 gr/dscf
A-522	Dust Collector	S-52	BAAQMD 6-301	1" -15" H2O	Ringelmann 1 for <= 3 min/hr
		S-52	BAAQMD 6-310	1" -15" H2O	0.15 gr/dscf
A-560	Dust Collector	S-56	BAAQMD 6-301	1" -15" H2O	Ringelmann 1 for <= 3 min/hr
		S-56	BAAQMD 6-310	1" -15" H2O	0.15 gr/dscf
A-561	Dust Collector	S-56	BAAQMD 6-301	1" -15" H2O	Ringelmann 1 for <= 3 min/hr
		S-56	BAAQMD 6-310	1" -15" H2O	0.15 gr/dscf

II. Equipment List

Table II - B - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-562	Dust Collector	S-56	BAAQMD 6-301	<i>1" -15" H2O</i>	Ringelmann 1 for </= 3 min/hr
		S-56	BAAQMD 6-310	<i>1" -15" H2O</i>	0.15 gr/dscf
A-563	Dust Collector	S-56	BAAQMD 6-301	<i>1" -15" H2O</i>	Ringelmann 1 for </= 3 min/hr ,
		S-56	BAAQMD 6-310	<i>1" -15" H2O</i>	0.15 gr/dscf

III. GENERALLY APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. These requirements apply in a general manner to the facility and/or to sources exempt from the requirement to obtain a District Permit to Operate. The District has determined that these requirements would not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirement and the source are also included in Section IV, Source-Specific Applicable Requirements, of this permit. This section also contains provisions that may apply to temporary sources.

The dates in parentheses in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full language of SIP requirements is on EPA Region 9's website. The address is <http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions>.

NOTE:

There are differences between the current BAAQMD rules and the versions of the rules in the SIP. All sources must comply with both versions of the rule until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (7/09/08)	N
SIP Regulation 1	General Provisions and Definitions (6/28/99)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (3/04/09)	N
SIP Regulation 2, Rule 1	General Requirements (1/26/99)	Y
BAAQMD 2-1-429	Federal Emissions Statement (12/21/04)	N
SIP Regulation 2-1-429	Federal Emissions Statement (4/3/95)	Y
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y
BAAQMD Regulation 5	Open Burning (7/09/08)	N

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
SIP Regulation 5	Open Burning (9/04/98)	Y
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Provisions (12/5/07)	N
SIP Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (7/20/05)	N
SIP Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (3/22/95)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (11/21/01)	Y
BAAQMD Regulation 8, Rule 4	Organic compounds - General Solvent and Surface Coating Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 15	Organic Compounds – Emulsified and Liquid Asphalts (6/1/94)	Y
BAAQMD Regulation 8, Rule 40	Aeration of Contaminated Soil and Removal of Underground Storage Tanks	N
SIP Regulation 8, Rule 40	Organic Compounds - Aeration of Contaminated Soil and Removal of Underground Storage Tanks (4/19/01)	Y
BAAQMD Regulation 8, Rule 47	Air Stripping and Soil Vapor Extraction Operations	N
SIP Regulation 8, Rule 47	Organic Compounds - Air Stripping and Soil Vapor Extraction Operations (4/26/95)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/95)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (7/17/02)	N
SIP Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (2/26/02)	Y
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)	N
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (6/8/99)	Y
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (12/4/91)	Y
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	N

III. Generally Applicable Requirements

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (9/2/81)	Y
California Health and Safety Code Section 41750 et seq.	Portable Equipment	N
California Health and Safety Code Section 44300 et seq.	Air Toxics "Hot Spots" Information and Assessment Act of 1987	N
California Health and Safety Code Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines	N
California Health and Safety Code Title 17, Section 93116	Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater	N
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (6/19/95)	Y
EPA Regulation 40 CFR 82	Protection of Stratospheric Ozone (2/21/95)	Y
Subpart F, 40 CFR 82.156	Leak Repair	Y
Subpart F, 40 CFR 82.161	Certification of Technicians	Y
Subpart F, 40 CFR 82.166	Records of Refrigerant	Y

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. The requirements cited in the following tables apply in a specific manner to the indicated source(s).

The dates in parentheses in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full language of SIP requirements is on EPA Region 9's website. The address is:

<http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions>. All other text may be found in the regulations themselves.

Table IV - A
Source-specific Applicable Requirements
S-10, GLASS MELTING FURNACE "C" NATURAL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (502/01)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors required per Reg. 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Record Keeping Procedures	Y	
SIP BAAQMD Regulation 1	General Provisions and Definitions (10/7/98)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors required per Reg. 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Record Keeping Procedures	Y	

IV. Source-specific Applicable Requirements

Table IV - A
Source-specific Applicable Requirements
S-10, GLASS MELTING FURNACE “C” NATURAL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitation	Y	
6-302	Opacity Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
6-501	Sampling Facilities and Instruments Required	Y	
6-502	Data, Records and Reporting	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitation	Y	
BAAQMD Regulation 9, Rule 12	Inorganic Gaseous Pollutants, Nitrogen Oxides From Glass Melting Furnaces (1/19/94)		
9-12-301	Emission Limit	Y	
9-12-402	Furnace Operating Parameters for Source Tests	Y	
9-12-402.1	Submit proposed ranges for APCO approval	Y	
9-12-402.2	Ranges approved at or near maximum production	Y	
9-12-402.3	Confirmation of approved parameters through source test	Y	
9-12-403	Baseline Emission Rate Determinations	Y	
9-12-403.1	Source Test Requirements	Y	
9-12-403.2	Source test conducted within approved parameters	Y	
9-12-403.3	Emission rate determined by one test	Y	
9-12-403.4	Emission rate determined by more than one test	Y	
9-12-404	Compliance Determinations for each glass melting furnace	Y	
9-12-404.1	District-approved Source Test Schedule	Y	

IV. Source-specific Applicable Requirements

Table IV - A
Source-specific Applicable Requirements
S-10, GLASS MELTING FURNACE “C” NATURAL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-12-404.2	Source Test Parameter Requirements	Y	
9-12-404.3	Emission rate determined by one test	Y	
9-12-404.4	Emission rate determined by more than one test	Y	
9-12-404.5	Source Test Results and Reporting Requirements	Y	
9-12-501	Production Monitoring	Y	
9-12-502	Fuel Monitoring	Y	
9-12-601	Determination of Nitrogen Oxides	Y	
9-12-602	Determination of Oxygen	Y	
9-12-603	Sampling and Averaging Period	Y	
9-12-604	Calculation of Mass Emission Rate Per Ton of Glass Pulled	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
BAAQMD Regulation 11, Rule 1	Lead (3/17/82)		
11-1-301	Daily Limitation	Y	
11-1-302	Ground Level Concentration Without Background	Y	
Condition #11930			
part 1	Throughput limit (basis: emissions banking)	Y	
part 2	Annual NOx Emission Limit (basis: emissions banking)	Y	
part 3	Continuous emission monitoring-NOx (basis: 1-521, 2-6-501)	Y	
part 4a	Recordkeeping (basis: emissions banking)	Y	
part 4c	Recordkeeping procedure (basis: emissions banking)	Y	
part 5	Annual source test for lead (basis: 2-6-501)	Y	
part 6	Annual source test for SO2 (basis: 2-6-501)	Y	
part 7	Annual source test for particulate (basis: 2-6-501)	Y	
part 8	Continuous opacity monitors (basis: 6-501)	Y	

IV. Source-specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-11, GLASS MELTING FURNACE “D” NATURAL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (5/02/01)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors required per Reg. 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Record Keeping Procedures	Y	
SIP BAAQMD Regulation 1	General Provisions and Definitions (10/7/98)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors required per Reg. 2-1-403	Y	
1-522	Continuous Emission Monitoring and Record Keeping Procedures	Y	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitation	Y	
6-302	Opacity Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
6-501	Sampling Facilities and Instruments Required	Y	
6-502	Data, Records and Reporting	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitation	Y	
BAAQMD Regulation 9, Rule 12	Inorganic Gaseous Pollutants, Nitrogen Oxides From Glass Melting Furnaces (1/19/94)		
9-12-301	Emission Limit	Y	
9-12-402	Furnace Operating Parameters for Source Tests	Y	

IV. Source-specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-11, GLASS MELTING FURNACE “D” NATURAL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-12-402.1	Submit proposed ranges for APCO approval	Y	
9-12-402.2	Ranges approved at or near maximum production	Y	
9-12-402.3	Confirmation of approved parameters through source test	Y	
9-12-403	Baseline Emission Rate Determinations	Y	
9-12-403.1	Source Test Requirements	Y	
9-12-403.2	Source test conducted within approved parameters	Y	
9-12-403.3	Emission rate determined by one test	Y	
9-12-403.4	Emission rate determined by more than one test	Y	
9-12-404	Compliance Determinations for each glass melting furnace	Y	
9-12-404.1	District-approved Source Test Schedule	Y	
9-12-404.2	Source Test Parameter Requirements	Y	
9-12-404.3	Emission rate determined by one test	Y	
9-12-404.4	Emission rate determined by more than one test	Y	
9-12-404.5	Source Test Results and Reporting Requirements	Y	
9-12-501	Production Monitoring	Y	
9-12-502	Fuel Monitoring	Y	
9-12-601	Determination of Nitrogen Oxides	Y	
9-12-602	Determination of Oxygen	Y	
9-12-603	Sampling and Averaging Period	Y	
9-12-604	Calculation of Mass Emission Rate Per Ton of Glass Pulled	Y	
BAAQMD Regulation 11, Rule 1	Lead (3/17/82)		
11-1-301	Daily Limitation	Y	
11-1-302	Ground Level Concentration Without Background	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
Condition #11930			
Part 1	Throughput limit (basis: emissions banking)	Y	

IV. Source-specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-11, GLASS MELTING FURNACE “D” NATURAL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
part 4b	Records of glass pulled (basis: emissions banking)	Y	
part 4c	Recordkeeping procedure (basis: emissions banking)	Y	
part 5	Annual source test for lead (basis: 2-6-501)	Y	
part 6	Annual source test for SO2 (basis: 2-6-501)	Y	
part 7	Annual source test for particulate (basis: 2-6-501)	Y	
part 8	Continuous opacity monitors (basis: 6-501)	Y	
part 9	Electrostatic precipitator (basis: Regulation 2-1-301)	N	
Condition #21614			
Part 1	deleted	N	
Part 2	deleted	N	
Part 3	deleted	N	
Part 4	Limits number of burners and size (basis 2-1-301)	N	
Part 5	NOx emissions limit (basis cumulative increase)	N	
Part 6	CO emissions limit (basis cumulative increase)	N	
Part 7	NOx and O2 CEM installation (basis cumulative increase)	N	
Part 8	Source test requirement (basis cumulative increase)	N	
Part 9	Record keeping (basis 2-6-501)	Y	

Table IV - C
Source-specific Applicable Requirements
S-12, GLASS MELTING FURNACE “E” NATURAL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (5/02/01)		
1-520	Continuous Emission Monitoring	N	
1-520.8	Monitors required per Reg. 2-1-403	N	
1-521	Monitoring May Be Required	N	

IV. Source-specific Applicable Requirements

Table IV - C
Source-specific Applicable Requirements
S-12, GLASS MELTING FURNACE “E” NATURAL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-522	Continuous Emission Monitoring and Record Keeping Procedures	N	
SIP BAAQMD Regulation 1	General Provisions and Definitions (10/7/98)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors required per Reg. 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Record Keeping Procedures	Y	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitation	Y	
6-302	Opacity Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
6-501	Sampling Facilities and Instruments Required	Y	
6-502	Data, Records and Reporting	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitation	Y	
BAAQMD Regulation 9, Rule 12	Inorganic Gaseous Pollutants, Nitrogen Oxides From Glass Melting Furnaces (1/19/94)		
9-12-301	Emission Limit	Y	
9-12-402	Furnace Operating Parameters for Source Tests	Y	
9-12-402.1	Submit proposed ranges for APCO approval	Y	
9-12-402.2	Ranges approved at or near maximum production	Y	

IV. Source-specific Applicable Requirements

Table IV - C
Source-specific Applicable Requirements
S-12, GLASS MELTING FURNACE “E” NATURAL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-12-402.3	Confirmation of approved parameters through source test	Y	
9-12-403	Baseline Emission Rate Determinations	Y	
9-12-403.1	Source Test Requirements	Y	
9-12-403.2	Source test conducted within approved parameters	Y	
9-12-403.3	Emission rate determined by one test	Y	
9-12-403.4	Emission rate determined by more than one test	Y	
9-12-404	Compliance Determinations for each glass melting furnace	Y	
9-12-404.1	District-approved Source Test Schedule	Y	
9-12-404.2	Source Test Parameter Requirements	Y	
9-12-404.3	Emission rate determined by one test	Y	
9-12-404.4	Emission rate determined by more than one test	Y	
9-12-404.5	Source Test Results and Reporting Requirements	Y	
9-12-501	Production Monitoring	Y	
9-12-502	Fuel Monitoring	Y	
9-12-601	Determination of Nitrogen Oxides	Y	
9-12-602	Determination of Oxygen	Y	
9-12-603	Sampling and Averaging Period	Y	
9-12-604	Calculation of Mass Emission Rate Per Ton of Glass Pulled	Y	
BAAQMD Regulation 11, Rule 1	Lead (3/17/82)		
11-1-301	Daily Limitation	Y	
11-1-302	Ground Level Concentration Without Background	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
Condition #11931			
Part 1	Throughput limit (basis: emissions banking)	Y	
Part 2	Recordkeeping (basis: emissions banking)	Y	
part 2a	Recordkeeping procedure (basis: emissions banking)	Y	

IV. Source-specific Applicable Requirements

Table IV - C
Source-specific Applicable Requirements
S-12, GLASS MELTING FURNACE “E” NATURAL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
part 3	Annual source test for lead (basis: 2-6-501)	Y	
part 4	Annual source test for SO2 (basis: 2-6-501)	Y	
part 5	Annual source test for particulate (basis: 2-6-501)	Y	
part 6	Continuous opacity monitors (basis: 6-501)	Y	
part 7	Electrostatic precipitator (basis: 2-1-301)	N	
Condition #20003			
Part 1	deleted	N	
Part 2	deleted	N	
Part 3	deleted	N	
Part 4	Limits number of burners and size (basis 2-1-301)	N	
Part 5	NOx emissions limit (basis cumulative increase)	N	
Part 6	CO emissions limit (basis cumulative increase)	N	
Part 7	NOx and O2 CEM installation (basis cumulative increase)	N	
Part 8	Source test requirement (basis cumulative increase)	N	
Part 9	Record keeping (basis 2-6-501)	Y	

IV. Source-specific Applicable Requirements

Table IV - D
Source-specific Applicable Requirements
S-25, S-27, S-29, S-30, S-32, & S-33, S-136
HOT END BOTTLE SURFACE TREATMENT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (5/02/01)		
1-523	Parametric Monitoring and Record Keeping Procedures	N	
SIP BAAQMD Regulation 1	General Provisions and Definitions (10/7/98)		
1-523	Parametric Monitoring and Record Keeping Procedures	Y	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
Condition #23142			
part 1	Maximum Annual Throughout of MBTT (basis: cumulative increase)	Y	
part 2	POC, PM, HCl, and Ammonia Emissions Limits (basis: cumulative emissions)	N	
part 3	Source Testing (basis: 2-6-501)	Y	
part 4	Recordkeeping (basis: 2-6-501)	Y	

IV. Source-specific Applicable Requirements

Table IV - E
Source-specific Applicable Requirements
S-39, RAW MATERIAL UNLOADING STATION,
S-57, ECOLOGY CULLET ELEVATOR
S-76, S-77, S-79 to S-81, S-135 FORMING MACHINES
S-83 to S-84, FORMING MACHINES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	
Condition #15855			
Part 2	Weekly Visible Emissions Monitoring (basis: 2-6-501)	Y	

Table IV - F
Source-specific Applicable Requirements
S-41 & 42, BATCH MIXERS A & B, S-48, LIME STORAGE BINS
S-50, SODA ASH STORAGE BINS
S-52, SAND STORAGE BINS, S-56, CULLET STORAGE BINS
S-58, SALT CAKE STORAGE AREA

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (5/02/01)		
1-523	Parametric Monitoring and Record Keeping Procedures	N	
SIP BAAQMD Regulation 1	General Provisions and Definitions (10/7/98)		
1-523	Parametric Monitoring and Record Keeping Procedures	Y	

IV. Source-specific Applicable Requirements

Table IV - F
Source-specific Applicable Requirements
S-41 & 42, BATCH MIXERS A & B, S-48, LIME STORAGE BINS
S-50, SODA ASH STORAGE BINS
S-52, SAND STORAGE BINS, S-56, CULLET STORAGE BINS
S-58, SALT CAKE STORAGE AREA

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
Condition #16591			
part 1	Abatement Requirement (basis: cumulative increase)	Y	
part 2	Pressure Drop Monitoring Requirement (basis: 2-6-501)	Y	
part 3	Recordkeeping (basis: 2-6-501)	Y	
part 4	Annual Baghouse Inspection (basis: 2-6-501)	Y	

Table IV - G
Source-specific Applicable Requirements
S-43, CULLET CRUSHER
S-44, SAND ELEVATOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	

IV. Source-specific Applicable Requirements

Table IV - G
Source-specific Applicable Requirements
S-43, CULLET CRUSHER
S-44, SAND ELEVATOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-401	Appearance of Emissions	Y	

IV. Source-specific Applicable Requirements

Table IV - H
Source-specific Applicable Requirements
S-63, MOLD REPAIR SHOP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 16	ORGANIC COMPOUNDS-SOLVENT CLEANING OPERATIONS (10/16/02)		
8-16-501.2	Solvent Records	Y	

Table IV - I
Source-specific Applicable Requirements
S-67, MOLD REPAIR COATING OVEN

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8, Rule 2	Organic Compounds-Miscellaneous Operations		
8-2-301	Emissions limit	Y	
Condition #15855			
Part 2	Weekly Visible Emissions Monitoring (basis: 2-6-501)	Y	

IV. Source-specific Applicable Requirements

**Table IV - J
 Source-specific Applicable Requirements
 S-97 BALER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
Condition #16592			
part 1	Abatement Requirement (basis: cumulative increase)	Y	
part 3	Visible Emissions Monitoring Requirement (basis: 2-6-501)	Y	

**Table IV - K
 Source-specific Applicable Requirements
 S-130 Emergency Electric Generator, Natural gas fired, 188 hp
 S-131 Diesel Engine, Emergency Standby, 335 hp
 S-132 Diesel Engine, Emergency Standby, 610 hp
 S-133 Diesel Engine, Emergency Standby, 369 hp**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-303	Ringelmann Number 2 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95; SIP approved 5/20/92)		

IV. Source-specific Applicable Requirements

Table IV - K
Source-specific Applicable Requirements
S-130 Emergency Electric Generator, Natural gas fired, 188 hp
S-131 Diesel Engine, Emergency Standby, 335 hp
S-132 Diesel Engine, Emergency Standby, 610 hp
S-133 Diesel Engine, Emergency Standby, 369 hp

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-1-301	Limitations on ground level concentrations	Y	
9-1-304	Fuel burning (liquid and solid fuels)	Y	
BAAQMD Regulation 9, Rule 8	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (1/20/93)		
9-8-110.4	Exemptions: emergency standby engines	Y	
9-8-330	Emergency standby engines hours of operation	N	
Condition # 22050			
part 1	Hours of operation (basis: 9-8-330)	Y	
part 2	Monitoring of either fuel usage or hours of operation (basis: 9-8-530)	Y	
Part 3	Record Keeping (basis: 9-8-530)	Y	
Part 4	Fuel Sulfur limit(basis 9-1-304)	Y	
Part 5	Record keeping for fuel(basis 2-6-409.2)	Y	

V. SCHEDULE OF COMPLIANCE

The permit holder shall comply with all applicable requirements cited in this permit. The permit holder shall also comply with applicable requirements that become effective during the term of this permit on a timely basis.

VI. PERMIT CONDITIONS

Any condition that is preceded by an asterisk is not federally enforceable.

CONDITION #11930

Plant 30, Sources S-10 and S-11, Glass Melting Furnaces

1. Total glass pulled at each S-10 and S-11 shall each not exceed 125,000 tons in any consecutive twelve-month period. (basis: emissions banking)
2. NOx Emissions from S-10 shall not exceed 212.7 tons in any consecutive 12-month period. (basis: legal agreement)
3. By December 1, 2000, the owner/operator of S-10 shall have installed and be operating a District-approved continuous emissions monitor (CEM) to measure the NOx emissions from S-10, a District-approved flowmeter to measure the exhaust gas flowrate from S-10, a District-approved method of measuring the tons of glass pulled, and a data logger and recorder. All of the above monitoring equipment shall be pre-approved by the District Source Test Manager. The monitoring shall demonstrate compliance with both part #2 of this condition and Regulation 9-12-301. (basis: 1-521,)
- 4a. Plant shall maintain daily records of the amount of glass pulled at S-10, all source test data, CEM data, exhaust gas flowrate data, mass emissions per ton using 3 hour averaging, and total consecutive 12 month mass emissions. Records shall be retained on site for five years from the date of entry, and be available for inspection by District staff upon request. (basis: emissions banking)
- 4b. Plant shall maintain daily records of the amount of glass pulled at S-11. Records shall be retained on site for five years from the date of entry, and be available for inspection by District staff upon request. (basis: emissions banking)
- 4c. The owner/operator of S-10 and S-11 shall maintain a district approved daily log of the glass pull-rate (in tons per calendar day) at each S-10 and S-11. The glass pull-rate shall be determined by the production rate (containers/minute), as reported on the computer control log at each setting, multiplied by the container specification

VI. Permit Conditions

CONDITION #11930

Plant 30, Sources S-10 and S-11, Glass Melting Furnaces

weight (pounds) multiplied by the minutes of operation during each calendar day and then divided by 2000 pounds/ton. Any changes in either the container/container weight and production rate shall be clearly identified in the log. The measurement error shall not exceed 10% of measurement. This log shall be maintained on site for at least 5 years from the date of entry and be made available to district staff upon request. (basis: emissions banking)

5. The owner/operator of S-10 and S-11 shall conduct a District-approved annual source test at each furnace in order to demonstrate compliance with Regulation 11-1-301. The results of this test shall be kept on site for at least five years from the date of the test and be made available to District staff upon request. (basis: Regulation 2-6-501, 2-6-503)
6. The owner/operator of S-10 and S-11 shall conduct a District-approved annual source test at each furnace in order to demonstrate compliance with Regulations 9-1-302. The results of these tests shall be kept on site for at least five years from the date of the test and be made available to District staff upon request. (basis: Regulation 2-6-501, 2-6-503)
7. The owner/operator of S-10 and S-11 shall conduct an annual District-approved source test at each furnace in order to demonstrate compliance with Regulations 6-310 and 6-311. The results of these tests shall be kept on site for at least five years from the date of the test and be made available to District staff upon request. (basis: Regulation 2-6-501, 2-6-503)
8. The owner/operator of S-10 and S-11 shall maintain and operate continuous opacity monitors in accordance with the Manual of Procedures, Volume V. This condition does not apply to S-11 during periods of maintenance of A-9, not to exceed 144 hours in any consecutive 12-month period. (basis: Regulation 6-501)

VI. Permit Conditions

CONDITION #11930

Plant 30, Sources S-10 and S-11, Glass Melting Furnaces

- *9. S-11 shall be abated, at all times of operation by the properly maintained and properly operated A-9 Electrostatic Precipitator. This condition does not apply during periods of maintenance of A-9 not to exceed 144 hours in any consecutive 12-month period. (basis: Regulation 2-1-301)

CONDITION #11931

Plant 30, Source 12, Glass Melting Furnace

1. Total glass pulled at this S-12 furnace shall not exceed 110,000 tons in any consecutive twelve-month period. (basis: emissions banking)
2. Plant shall maintain daily records of the amount of glass pulled at this furnace. Records shall be retained on site for five years from the date of entry, and be available for inspection by District staff upon request. (basis: emissions banking)
- 2a. The owner/operator of S-12 shall maintain a district approved daily log of the glass pull-rate (in tons per calendar day) at S-12. The glass pull-rate shall be determined by the production rate (containers/minute), as reported on the computer control log at each setting, multiplied by the container specification weight (pounds) multiplied by the minutes of operation during each calendar day and then divided by 2000 pounds/ton. Any changes in either the container/container weight and production rate shall be clearly identified in the log. The measurement error shall not exceed 10% of measurement. This log shall be maintained on site for at least 5 years from the date of entry and be made available to district staff upon request. (basis: emissions banking)
3. The owner/operator of S-12 shall conduct a District-approved annual source test at each furnace in order to demonstrate compliance with Regulation 11-1-301. The results of this test shall be kept on site for at least five years from the date of the test and be made available to District staff upon request. (basis: Regulation 2-6-501, 2-6-503)
4. The owner/operator of S-12 shall conduct a District-approved annual source test at each furnace in order to demonstrate compliance with Regulations 9-1-302. The results of these tests shall be kept on site for at least five years from the date of the test and be made available to District staff upon request. (basis: Regulation 2-6-501, 2-6-503)

VI. Permit Conditions

CONDITION #11931

Plant 30, Source 12, Glass Melting Furnace

5. The owner/operator of S-12 shall conduct an annual District-approved source test at each furnace in order to demonstrate compliance with Regulations 6-310 and 6-311. The results of these tests shall be kept on site for at least five years from the date of the test and be made available to District staff upon request. (basis: Regulation 2-6-501, 2-6-503)
6. The owner/operator of S-12 shall maintain and operate continuous opacity monitors in accordance with the Manual of Procedures, Volume V. (basis: Regulation 6-501)
- *7. S-12 shall be abated, at all times of operation by the properly maintained and properly operated A-9 Electrostatic Precipitator. This condition does not apply during periods of maintenance of A-9 not to exceed 144 hours in any consecutive 12-month period. (basis: Regulation 2-1-301)

CONDITION #15855

S-39, Ray Material Unloading Station; S-57, Ecology Cullet Elevator; S-67, Mold Repair Coating Oven; S-76, S-77, S-79, S-80, S-81, S-83, S-84, S-135 Forming Machines

1. Deleted per Source Test recommendation (Applications 6869/6872)
2. The owner/operator of S-39, S-57, S-67, , S-76, S-77, S-79, S-80, S-81, S-83, S-84 and S-135 shall conduct weekly visible emissions monitoring in order to determine compliance with Regulations 6-301 using either District method or EPA Method 9, and shall not exceed a Ringelmann 1.0 for more than three minutes in any hour. Weekly records of visible emissions data shall be retained on site for at least five years from the date of entry and be made available to District staff upon request. (basis: Regulation 2-6-501, 2-6-503)

VI. Permit Conditions

Condition #16591

Sources S-41, S-42, Batch Mixers; S-48, Lime Storage Bins; S-50, Soda Ash Storage Bins; S-52, Sand Storage Bins; S-56; Cullet Storage Bins; and S-58, Salt Cake Storage Area.

1. The owner/operator of the following sources shall vent particulate matter emissions under negative pressure to the indicated abatement devices at all times of operation of the sources and/or when emitting particulate matter emissions:

S-41 Batch Mixer abated by:
A-41 Dust Collector Torit 64 PJD 8

S-42 Batch Mixer abated by:
A-42 Dust Collector Torit 64 PJD 8

S-48 Lime Storage Bins abated by :
A-48 Dust Collector (B1) FlexKleen 36-BVS-9-IT-G, 230 scfm

S-50 Soda Ash Storage Bins abated by:
A-50 Dust Collector (B3) FlexKleen 36-BVS-9-IT- G, 230 scfm

S-52 Sand Storage Bins (4) abated by :
A-520 Dust Collector (B4) FlexKleen 36-BVS-9-IT-G, 230 scfm,
A-521 Dust Collector (B4F) FlexKleen 36-BVS-9-IT-G, 230 scfm,
A-522 Dust Collector (B5C) FlexKleen 36-BVS-9-IT-G, 230 scfm, set up in parallel

S-56 Cullet Storage Bins (7) abated by:
A-560 Dust Collector (B6) FlexKleen 36-BVS-9-IT-G, 230 scfm,
A-561 Dust Collector (B6F) FlexKleen 36-BVS-9-IT-G, 230 scfm,
A-562 Dust Collector (B7) FlexKleen 36-BVS-9-IT-G, 230 scfm,
A-563 Dust Collector (B9) FlexKleen 36-BVS-9-IT-G, 230 scfm, set up in parallel

S-58 Salt Cake Storage Area abated by:
A-58 Dust Collector (B2) FlexKleen 36-BVS-9-IT-G, 230 scfm
(basis: cumulative increase)

VI. Permit Conditions

Condition #16591

Sources S-41, S-42, Batch Mixers; S-48, Lime Storage Bins; S-50, Soda Ash Storage Bins; S-52, Sand Storage Bins; S-56; Cullet Storage Bins; and S-58, Salt Cake Storage Area.

2. By January 15, 2004, the permit holder shall install a District-approved manometer or other District-approved device which measures the pressure drop across A-41, A-42, A-48, A-50, A-58, A-520, A-521, A-522, A-560, A-561, A-562, and A-563. The pressure drop across each of the above mentioned Dust Collectors shall be no less than 1 inch of water and no greater than 15 inches of water. (basis: 2-6-501, 2-6-503, 6-310)
3. After installation, the owner/operator shall monitor the pressure drop across A-41, A-42, A-48, A-50, A-520, A-521, A-522, A-560, A-561, A-562, A-563, and A-58 at all times that the above sources are operated and recorded once a week to ascertain that the pressure drop is in the normal operating range, and that the baghouses are in good operating condition. The records shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501, 2-6-503)
4. The A-41, A-42, A-48, A-50, A-520, A-521, A-522, A-560, A-561, A-562, A-563, and A-58 Bagoes, shall be inspected on an annual basis to ensure proper operation. Records of each annual inspection shall be kept on site for at least five years from the date of data entry and be made available to the District staff for inspection. (basis: Regulation 2-6-501, 2-6-503)

VI. Permit Conditions

Condition #16592

Source S-97; Baler

1. Particulate matter emissions from source S-97, Baler, shall be routed under negative pressure to A-3, Cyclone, for abatement at all times that the baler is operated and/or emits particulate matter emissions. (basis: cumulative increase)
2. Deleted per Source Test recommendation
3. The owner/operator of S-97, Baler, shall conduct weekly visible emissions monitoring in order to determine compliance with Regulations 6-301 using either District method or EPA Method 9, and shall not exceed a Ringelmann 1.0. Weekly records of visible emissions data shall be retained on site for at least five years from the date of entry and be made available to District staff upon request. (basis: Regulation 2-6-501, 2-6-503)

Condition #20003

Sources S-12

Application 5183

1. deleted
2. deleted
3. deleted
4. The owner/operator of S-12 shall install the identical number (10) of burners to those being replaced. The replaced combustion system shall not increase firing rate of S-12. The new combustion system shall include the Individual Port Control as described in the documents dated 10/14/02 and shall also include oxygen-enriched air staging (OEAS) as described in the documents dated 10/15/02. (2-1-301)
5. The owner/operator of S-12 shall not exceed 4.0 pounds of NO_x per ton pulled averaged over any consecutive 3 hour period. (cumulative increase)
6. The owner/operator of S-12 shall not exceed 0.70 pounds of CO per ton pulled averaged over any consecutive 3 hour period. (cumulative increase)
7. The owner/operator of S-12 shall install and operate a district approved NO_x and O₂ continuous emissions monitors (CEMs) and a flowmeter with a recorder within 180 days of receipt of this Authority to Construct. These monitors shall be pre-approved by the district's source test manager. These monitors shall be used to determine compliance with

VI. Permit Conditions

condition #5. (cumulative increase)

8. The owner/operator of S-12 shall conduct a district pre-approved source test with 45 days of the startup and annually thereafter of S-12 in order to demonstrate compliance with condition #'s 5 and 6. The results of this source test shall be submitted to the district within 45 days of the test date. (cumulative increase)

9. The owner/operator of S-12 shall maintain a District approved monthly log of all CEM data, flowmeter data, pull rate, and source test data for S-12. This log shall be kept on site for at least five years from the date of entry and be made available to District staff upon request. (2-1-301)

Condition #21614

Sources S-11

Plant 30, a/n 9494

1. deleted
2. deleted
3. deleted

4. The owner/operator of S-11 shall install the identical number (10) of burners to those being replaced. The replaced combustion system shall not increase firing rate of S-11. The new combustion system shall include the Individual port control and shall also include oxygen-enriched air staging (OEAS). (2-1-301)

5. The owner/operator of S-11 shall not exceed 4.0 pounds of NO_x per ton pulled averaged over any consecutive 3 hour period. (cumulative increase)

6. The owner/operator of S-11 shall not exceed 0.70 pounds of CO per ton pulled averaged over any consecutive 3 hour period. (cumulative increase)

7. The owner/operator of S-11 shall install and operate a district approved NO_x and O₂ continuous emissions monitors (CEMs) and a fuel flowmeter with a recorder within 180 days of receipt of this Authority to Construct. These monitors and recorders shall be pre-approved by the district's source test manager. These monitors and recorders shall be used to determine compliance with condition #5. (cumulative increase)

8. The owner/operator of S-11 shall conduct a district pre-approved source test with 45 days of the startup and annually thereafter of S-11 in order to demonstrate compliance with condition #'s 5 and 6. The results of this source test shall be submitted to the district within 45 days of the test date. (cumulative increase)

VI. Permit Conditions

9. The owner/operator of S-11 shall maintain a District approved daily log with monthly summaries of all CEM data, fuel flowmeter data, pull rate, source test data for S-11, and any other information required to determine the stoichiometric exhaust flowrate. This log shall be kept on site for at least five years from the date of entry and be made available to District staff upon request. (record keeping, 2-1-301)

Condition #22050

Sources S-130, S-131, S-132, S-133

CONDITIONS FOR NON "ESSENTIAL" EMERGENCY ENGINES:

Stationary Equipment Requirements

1. Hours of Operation: The owner/operator shall operate the emergency standby engine(s) only to mitigate emergency conditions or for reliability-related activities. Operating while mitigating emergency conditions is unlimited. Operating for reliability-related activities is limited to 100 hours per any calendar year. [Basis: Regulation 9-8-330]

"Emergency Conditions" is defined as any of the following:

- a. Loss of regular natural gas supply.
- b. Failure of regular electric power supply.
- c. Flood mitigation.
- d. Sewage overflow mitigation.
- e. Fire.
- f. Failure of a primary motor, but only for such time as needed to repair or replace the primary motor.

[Basis: Regulation 9-8-231]

"Reliability-related activities" is defined as any of the following:

- a. Operation of an emergency standby engine to test its ability to perform for an emergency use, or
- b. Operation of an emergency standby engine during maintenance of a primary motor.

[Basis: Regulation 9-8-232]

2. The owner/operator shall equip the emergency standby engine(s) with either:
a. a non-resettable totalizing meter that measures the hours of operation for the engine; or
b. a non-resettable fuel usage meter, the maximum hourly fuel rate shall be used to convert fuel usage to hours of operation.

[Basis: Regulation 9-8-530]

3. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 2 years and shall make the log available for District

VI. Permit Conditions

inspection upon request:

- a. Hours of operation (total).
- b. Hours of operation (emergency).
- c. For each emergency, the nature of the emergency condition.
- d. Fuel usage for engine(s) if a non-resettable fuel usage meter is utilized.

[Basis: Regulations 9-8-530]

4. This source shall only be fired on diesel fuel with a sulfur content not to exceed 0.5% by weight. [Basis: Reg 9-1-304]

5. To demonstrate compliance with the above sulfur limit, the Permit Holder shall secure and maintain onsite, for at least 5 years, one of the following records:

[Basis: Reg 2-6-409.2, 2-6-501]

- a. A written statement, as applicable, received from the diesel fuel supplier(s) certifying that the diesel fuel purchased from the supplier does not exceed 0.5% by weight or meets the sulfur limitations for CARB Vehicular Diesel Fuel as specified in 13 CCR, Section 2281, California Code of Regulations, or
- b. A vendor certification of sulfur content, or
- c. Fuel test results showing the sulfur content from a District-approved test.

Condition #23142

Sources S-25, 27, 29, 30, 32, 33 and 136

Applications Nos.14034 & 17195

1. The owner/operator of S-25, 27, 29, 30, 32, 33 and S-136 shall not exceed 950 gallons of MBTT per source in any consecutive 12 month period. (basis: cumulative increase)

2. The owner/operator of S-25, 27, 29, 30, 32, 33 and S-136 shall not exceed the following emission rates: 0.62 #POC/gallon of MBTT, 0.55 #PM/gallon MBTT, 0.058 #HCl/gallon of MBTT, and 0.85 #NH3/hour. (basis: cumulative increase/offsets)

3. The owner/operator of S-25, 27, 29, 30, 32, 33 and S-136 shall conduct a District approved source test at the outlet of A-1 that is downstream of S-25, 27, 29, 30, 32, 33 and S-136 once every 5 years after the initial source test conducted on February 13, 2007, in order to demonstrate compliance with condition #2. The results of the source test shall be submitted to District within 30 days of the test date. The source test for PM shall include both TSP and condensable PM emissions as determined by EPA Method 5/202. (basis: cumulative increase)

4. The owner/operator of S-25, 27, 29, 30, 32, 33 and S-136 shall maintain a district

VI. Permit Conditions

approved monthly log of all material (MBTT) throughput for each HEST source, S-25, 27, 29, 30, 32, 33 and S-136, and of all source test results. This log shall be kept on site for at least 5 years from the date of entry and be made available to district staff upon request.
(basis: recordkeeping)

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included only to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown using the following codes: annual (A), quarterly (Q), monthly (M), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

This section is only a summary of the limits and monitoring requirements. In the case of a conflict with any requirement in Sections I-VI, the preceding sections take precedence over Section VII.

**Table VII - A
 Applicable Limits and Compliance Monitoring Requirements
 S 10, GLASS MELTING FURNACE "C" NATURAL GAS FIRED**

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann 1.0 for ≤ 3 min/hr	BAAQMD 6-501 BAAQMD Cond # 11930, part 8	C	Continuous Opacity Monitor
	BAAQMD 6-302	Y		20% opacity	BAAQMD 6-501, BAAQMD Cond # 11930, part 8	C	Continuous Opacity Monitor
FP	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond # 11930, part 7	P/A	Annual Source Test
	BAAQMD 6-311	Y		40 lb/hr	BAAQMD Cond # 11930, part 7	P/A	Annual Source Test

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S 10, GLASS MELTING FURNACE "C" NATURAL GAS FIRED

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-12-301	Y		5.5 lb/ton	BAAQMD 9-12-404	P/A	Annual Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S 10, GLASS MELTING FURNACE "C" NATURAL GAS FIRED

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-12-301	Y		5.5 lb/ton	BAAQMD Cond # 11930, part 3	C	CEM
NOx	BAAQMD Condition #11930, part 2	Y		212.7 ton NOx in any consecutive 12 month period	BAAQMD Cond # 11930, part 3	C	CEM
SO2	BAAQMD 9-1-301	Y		GLC of 0.5 ppm for 3 min. or 0.25 ppm for 60 min. or 0.05 ppm for 24 hours		N	
	BAAQMD 9-1-302	Y		Sulfur dioxide emission not to exceed 300 ppm (dry)	BAAQMD Cond # 11930, part 6	P/A	Annual Source Test
Lead	BAAQMD 11-1-301	Y		15 lb/day	BAAQMD Cond # 11930, part 5	P/A	Annual Source Test
	BAAQMD 11-1-302	Y		GLC not to exceed 1.0 ug/m ³ , 24 hr. avg.		N	
Glass Production	BAAQMD Condition #11930, part 1	Y		125,000 ton/yr	BAAQMD Cond #11930, part 4a and 4c	P/D	Record keeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S 11, GLASS MELTING FURNACE “D” NATURAL GAS FIRED

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann 1.0 for ≤ 3 min/hr	BAAQMD 6-501, BAAQMD Cond # 11930, part 8	C	Continuous Opacity Monitor
	BAAQMD 6-302	Y		20% opacity	BAAQMD 6-501, BAAQMD Cond # 11930, part 8	C	Continuous Opacity Monitor
FP	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond # 11930, part 7	P/A	Annual Source Test
	BAAQMD 6-311	Y		40 lb/hr	BAAQMD Cond # 11930, part 7	P/A	Annual Source Test
NO _x	BAAQMD 9-12-301	Y		5.5 lb/ton	BAAQMD 9-12-404 and Condition #21614 part 8	P/A	Annual Source Test
	Condition #21614 part 5	N		4.0 lb/ton	Condition #21614 part 7	C	Continuous emissions monitor
CO	Condition #21614 part 6	N		0.70 lb/ton	Condition #21614 part 8	P/A	Annual Source Test
SO ₂	BAAQMD 9-1-301	Y		GLC of 0.5 ppm for 3 min. or 0.25 ppm for 60 min. or 0.05 ppm for 24 hours		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S 11, GLASS MELTING FURNACE "D" NATURAL GAS FIRED

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD 9-1-302	Y		Sulfur dioxide emission not to exceed 300 ppm (dry)	BAAQMD Cond # 11930, part 6	P/A	Annual Source Test
Lead	BAAQMD 11-1-301	Y		15 lb/day	BAAQMD Cond # 11930, part 5	P/A	Annual Source Test
Lead	BAAQMD 11-1-302	Y		GLC not to exceed 1.0 ug/m ³ , 24 hr. avg.		N	
Glass Production	BAAQMD Cond #11930, part 1	Y		125,000 ton/yr	BAAQMD Cond #11930, part 4b and 4c	P/D	Record keeping
Fuel flow	Condition #21614 part 7	N			Condition #21614 part 7	C	Continuous fuel flow meter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - C
Applicable Limits and Compliance Monitoring Requirements
S 12, GLASS MELTING FURNACE “E” NATURAL GAS FIRED

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann 1.0 for <= 3 min/hr	BAAQMD 6-501 BAAQMD Cond # 11931, part 6	C	Continuous Opacity Monitor
	BAAQMD 6-302	Y		20% opacity	BAAQMD 6-501 BAAQMD Condition # 11931, part 6	C	Continuous Opacity Monitor
FP	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Condition # 11931, part 5	P/A	Annual Source Test
TSP	BAAQMD 6-311	Y		40 lb/hr	BAAQMD Condition # 11930, part 5	P/A	Annual Source Test
NOx	BAAQMD 9-12-301	Y		5.5 lb/ton	BAAQMD 9-12-404 and Condition #20003 part 8	P/A	Annual Source Test
	Condition #20003 part 5	N		4.0 lb/ton	Condition #20003 part 7	C	Continuous emissions monitor
CO	Condition #20003 part 6	N		0.70 lb/ton	Condition #20003 part 8	P/A	Annual Source Test
SO2	BAAQMD 9-1-301	Y		GLC of 0.5 ppm for 3 min. or 0.25 ppm for 60 min. or 0.05 ppm for 24 hours		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - C
Applicable Limits and Compliance Monitoring Requirements
S 12, GLASS MELTING FURNACE "E" NATURAL GAS FIRED

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD 9-1-302	Y		Sulfur dioxide emission not to exceed 300 ppm (dry)	BAAQMD Condition # 11931, part 4	P/A	Annual Source Test
Lead	BAAQMD 11-1-301	Y		15 lb/day	BAAQMD Condition # 11930, part 3	P/A	Annual Source Test
	BAAQMD 11-1-302	Y		GLC not to exceed 1.0 ug/m ³ , 24 hr. avg.		N	
Glass Production	BAAQMD Condition #11931, part 1	Y		110,000 ton/yr	BAAQMD Condition #11931, part 2	P/D	Record keeping
Fuel flow	Condition #20003 part 7	N			Condition #20003, part 7	C	Continuous fuel flow meter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - D
Applicable Limits and Compliance Monitoring Requirements
S-25, S-27, S-29, S-30, , S-32, S-33 & S-136,
HOT END BOTTLE SURFACE TREATMENT

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD Condition #23142 part 2	Y		0.62 lb POC/gal MBTT	BAAQMD Condition #23142, parts 3 and 4	P/every five years	Source Test
FP	BAAQMD Condition #23142, part 2	Y		0.55 lb PM/gal MBTT	BAAQMD Condition #23142, parts 3 and 4	P/every five years	Source Test
NH3	BAAQMD Condition #23142 part 2	N		0.85 lb NH3/gal MBTT	BAAQMD Condition #23142, parts 3 and 4	P/ every five years	Source Test
HCl	BAAQMD condition 23142 part 2	N		0.058 lb HCl/gal MBTT	BAAQMD Condition #23142, parts 3 and 4	P	Source Test
MBTT Throughput	BAAQMD condition 23142 Part 1	N		950 gal/yr per source	BAAQMD condition 23142 Part 4	P	Record Keeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S-39, RAW MATERIAL UNLOADING STATION,
S-57, ECOLOGY CULLET ELEVATOR,
S-76 ,S-77, S-79 to S-81, S-135 FORMING MACHINES,
S-83 to S-84, FORMING MACHINES

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann 1.0 for $\leq 3\text{ min/hr}$	BAAQMD Condition # 15855 part 2	P/W	Visible emission monitoring

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – F
Applicable Limits and Compliance Monitoring Requirements
S-41 & 42, BATCH MIXERS A & B, S-48, LIME STORAGE BINS,
S-50, SODA ASH STORAGE BINS, S-52, SAND STORAGE BINS,
S-56, CULLET STORAGE BINS, ,
S-58, SALT CAKE STORAGE AREA,

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann 1.0 for ≤ 3 min/hr	BAAQMD Condition # 16591 parts 2 and 3	P/W	Pressure Drop monitoring
	BAAQMD 6-301	Y		Ringelmann 1.0 for ≤ 3 min/hr	BAAQMD Condition # 16591 part 4	P/A	Annual inspection
FP	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Condition # 16591 parts 2 and 3	P/W	Pressure Drop monitoring
	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Condition # 16591 part 4	P/A	Annual inspection
FP	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Condition # 16591 parts 2 and 3	P/W	Pressure Drop monitoring
	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Condition # 16591 part 4	P/A	Annual inspection
Pressure Drop	BAAQMD Condition #16591, part 2	N		1" – 15" H2O	BAAQMD Condition #16591, part 3	P/W	Pressure Drop monitoring

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – G
Applicable Limits and Compliance Monitoring Requirements
S-43, CULLET CRUSHER, S-44, SAND ELEVATOR

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann 1.0 for ≤ 3 min/hr		N	
FP	BAAQMD 6-310	Y		0.15 gr/dscf		N	
FP	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr		N	

Table VII - H
Applicable Limits and Compliance Monitoring Requirements
S-63, MOLD REPAIR SHOP

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	none	Y		none	BAAQMD 8-16-501.2	P/Q	Record Keeping

Table VII - I
Applicable Limits and Compliance Monitoring Requirements
S-67, MOLD REPAIR COATING OVEN

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann 1.0 for ≤ 3 min/hr	BAAQMD Cond # 15855 part 2	P/W	Visible emission monitoring
FP	BAAQMD 6-310	Y		0.15 gr/dscf		N	
VOC	BAAQMD 8-2-301	Y		15 pounds per day and 300 ppm carbon		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J
Applicable Limits and Compliance Monitoring Requirements
S-97 BALER

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann 1.0 for ≤ 3 min/hr	BAAQMD Cond # 16592, part 3	P/W	Visible emission monitoring
FP	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Cond # 16592, part 3	P/W	Visible emission monitoring
	BAAQMD 6-311	Y		$4.10P^{0.67}$ lb/hr, where P is process weight, ton/hr	BAAQMD Cond # 16592, part 3	P/W	Visible emission monitoring

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K
Applicable Limits and Compliance Monitoring Requirements
S-130 Emergency Electric Generator, Natural gas fired, 188 hp
S-131 Diesel Engine, Emergency Standby, 335 hp
S-132 Diesel Engine, Emergency Standby, 610 hp
S-133 Diesel Engine, Emergency Standby, 369 hp

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-303	Y		Ringelmann 2.0 for ≤ 3 min/hr	none	N	N/A
FP	BAAQMD 6-305	Y		Visible particulates	6-601	P/E	Visual inspection
	BAAQMD 6-310			0.15 gr/dscf			Visible emission monitoring
SO2	BAAQMD 9-1-304	Y		Sulfur content of liquid fuel $\leq 0.5\%$ by weight	9-1-502 and condition #22050 parts 4 and 5	P/E	Fuel certification
records	BAAQMD 9-8-330	N		Hours of operation	9-8-530 and condition 22050 part 1	P/M	Recordkeeping

VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally found in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits referenced in Section VII, Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

**Table VII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, P or USEPA Method 5, Determination of Particulate Matter Emissions from Stationary Sources particulate Sampling
BAAQMD 6-311	General Operations	Manual of Procedures, Volume IV, ST-15 Particulate Sampling or USEPA Method 5, Determination of Particulate Matter Emissions from Stationary Sources
BAAQMD 9-1-302	General Emission Limitation	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides Integrated Sample
BAAQMD 9-12-301	Emission Limit, NOx	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling or EPA Method 7E, 40 CFR Part 60 Appendix A
BAAQMD 11-1-301	Daily Limitation, Lead	Manual of Procedures, Volume IV, ST-9, Lead
SIP 11-1-301	Daily Limitation, Lead	Manual of Procedures, Volume IV, ST-9, Lead

IX. PERMIT SHIELD

A. Non-applicable Requirements

Pursuant to District Regulations 2-6-233 and 2-6-409.12, the federally enforceable regulations and/or standards cited in the following table[s] do not apply to the source or group of sources identified at the top of the table[s]. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the regulatory and/or statutory provisions cited, as long as the reasons listed below remain valid for the source or group of sources covered by this shield.

Table IX A - 1
Permit Shield for Non-applicable Requirements
S-10, 11, 12, GLASS MELTING FURNACES

Citation	Title or Description (Reason not applicable)
40 CFR 60, Subpart CC	Standards of Performance for Glass Manufacturing Plants (Rebricking of the furnace, which occurs every several years, does not meet the definition of reconstruction under 40 CFR 60.15.)

X. REVISION HISTORY

Title V Permit Issuance (Application 25846): **January 5, 2000**

Minor Revision/Administrative Permit Amendment: (no application) October 2, 2000

Corrections in capacity of S-11, Furnace; S-12, Furnace;
and S-39, Raw Material Unloading Station.
Change in the deadline for installation of NOx monitor.
Change in recordkeeping for glass production.
Condition I.J added to standard conditions regarding
enforceability of stated capacity.

Replacement of Responsible Official (no application) September 24, 2001

Significant Revision (Applications 6869/6876) July 15, 2004

Deletion source test requirement for S39, S57, S75-S77, S79-S81,
S83, S84, S97

Corrected citation of abatement devices for S43, S44, S48, S50,
S52, S56, S58

Monitoring has been removed from S-43 and S-44

The description of the BAAQMD 6-301 limit in BAAQMD
Condition 15855, part 2 has been corrected to say "for no
more than three minutes in any hour."

The description of the BAAQMD 6-301 limit in Section VII has
been corrected to say "for ≤ 3 min/hr."

BAAQMD 6-310 and 6-311 were deleted from the Section IV and
VII tables for S39, S57, S75-S77, S79-S81, S83, and S84,
because these standards apply only to sources that have
stacks.

The term "TSP" in Section VII has been changed to "FP", which
means "filterable particulate."

The dates in Section I.A.1 were updated.

Section I.A.11, which requires the responsible official to certify
all documents submitted, was added to conform to changes in
Regulation 2, Rule 6.

Section I.E.1 requiring the permit holder to provide any
information, records, and reports requested or specified by
the APCO, was added because it was omitted in error.

Section I.H was modified to conform to the current standard.

Significant Revision, continued (Applications 6869/6876)

July 15, 2004

The Abatement device table, II-B, has been modified so that there is no confusion between the citation of standards and the standards themselves.

Sections III, IV, and XI have been modified because SIP standards are now found on EPA's website and are not included as part of the permit.

40 CFR Part 61, Subpart M, National Emission Standard for Asbestos, was added to Section III. This standard is equivalent to BAAQMD Regulation 11, Rule 2, which has been cited in the permit since it was issued in 2000.

Therefore, this is not a substantive change.

The standard language in the Section IX, Permit Shield, was updated.

The glossary was updated.

Condition #16591 part 4 has been amended to include the correct list of abatement devices and remove A-1 since it is already contained in Condition #8395.

Renewal of Title V Permit

(Application: 10138)

March 21, 2006

Minor Revision (Application 17196)

October 14, 2009

Section I.B.1, permit dates have been corrected to reflect the March 21, 2006 renewal.

Change surface treatment agent from stannic chloride to Monobutyltin Trichloride (MBTT) at Sources S-25, 27, 29, 30, 32, and 33 Hot Bottle Surface Treatment. Permit Condition #8395 was deleted and replaced with Permit Condition #23142 (Application # 14034).

Sources S-135 C-1a Forming Line and S-136 HEST replaced sources S-75 C-1 Forming Line and S-24 and 31 HEST (Application #17195).

Administrative Amendment (Application 21992)

July 19, 2010

Replacement of Responsible Official

Administrative Amendment (Application 23026)

March 9, 2011

Replacement of Responsible Official

XI. GLOSSARY

ACT

Federal Clean Air Act

APCO

Air Pollution Control Officer

API

American Petroleum Institute

ARB

Air Resources Board

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

CAA

The federal Clean Air Act

CAAQS

California Ambient Air Quality Standards

CEQA

California Environmental Quality Act

CFR

The Code of Federal Regulations. 40 CFR contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR contain the requirements for air pollution programs.

CO

Carbon Monoxide

Cumulative Increase

The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Used to determine whether threshold-based requirements are triggered.

District

The Bay Area Air Quality Management District

EPA

The federal Environmental Protection Agency.

Excluded

Not subject to any District Regulations.

Federally Enforceable, FE

All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60, (NSPS), Part 61, (NESHAPs), Part 63 (HAP), and Part 72 (Permits Regulation, Acid Rain), and also including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

FP

Filterable Particulate as measured by BAAQMD Method ST-15, Particulate.

HAP

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by both 40 CFR Part 63, and District Regulation 2, Rule 5.

Major Facility

A facility with potential emissions of regulated air pollutants greater than or equal to 100 tons per year, greater than or equal to 10 tons per year of any single hazardous air pollutant, and/or greater than or equal to 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity as determined by the EPA administrator.

MFR

Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Act and implemented by District Regulation 2, Rule 6.

MOP

The District's Manual of Procedures.

NAAQS

National Ambient Air Quality Standards.

NESHAPs

National Emission Standards for Hazardous Air Pollutants. Contained in 40 CFR Part 61.

NMHC

Non-methane Hydrocarbons.

NO_x

Oxides of nitrogen.

NSPS

Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Act, and implemented by both 40 CFR Part 60 and District Regulation 10.

NSR

New Source Review. A federal program for pre-construction review and permitting of new and modified sources of air pollutants for which the District is classified "non-attainment". Mandated by Title I of the Clean Air Act and implemented by 40 CFR Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

Offset Requirement

A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any onsite contemporaneous emission reduction credits. Applies to emissions of POC, NO_x, PM₁₀, and SO₂.

Phase II Acid Rain Facility

A facility that generates electricity for sale through fossil-fuel combustion and by virtue of certain other characteristics (defined in Regulation 2, Rule 6) is subject to Titles IV and V of the Clean Air Act.

POC

Precursor Organic Compounds.

PM

Total Particulate Matter.

PM₁₀

Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns.

PSD

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

SIP

State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

SO₂

Sulfur dioxide.

Title V

Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

VOC

Volatile Organic Compounds

Units of Measure:

bhp	=	brake-horsepower
btu	=	British Thermal Unit
g	=	grams
gal	=	gallon
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m ²	=	square meter
min	=	minute
mm	=	million
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfm	=	standard cubic feet per minute
yr	=	year