

DRAFT/PROPOSED CAAPP PERMIT
February 19, 2014

Attention: Robert Hunt, Environmental Engineer

Saint-Gobain Containers, Inc.
Attn: Robert Hunt, Environmental Engineer
1509 South Macedonia Avenue
Muncie, Indiana 47307

State of Illinois

CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT

Source:

Saint-Gobain Containers, Inc.
13850 Cottage Grove Avenue
Dolton, Illinois 60419

I.D. No.: 031069AAI
Permit No.: 95090177

Permitting Authority:

Illinois Environmental Protection Agency
Bureau of Air, Permit Section
217/785-1705

CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT

Type of Application: Renewal
Purpose of Application: Renew Existing CAAPP Permit for 5 Years

ID No.: 031069AAI
Permit No.: 95090177
Statement of Basis No.: 95090177-2013/10

Date Application Received: September 23, 2005
Date Issued: TBD

Expiration Date: TBD
Renewal Submittal Date: 9 Months Prior to TBD

Source Name: Saint-Gobain Containers, Inc.
Address: 13850 Cottage Grove Avenue
City: Dolton
County: Cook
ZIP Code: 60419

This permit is hereby granted to the above-designated source authorizing operation in accordance with this CAAPP permit, pursuant to the above referenced application. This source is subject to the conditions contained herein. For further information on the source see Section 1 and for further discussion on the effectiveness of this permit see Condition 2.3(g).

If you have any questions concerning this permit, please contact Anatoly Belogorsky at 217/785-1705.

Raymond E. Pilapil
Acting Manager, Permit Section
Division of Air Pollution Control

ECB:MTR:AB:psj

cc: IEPA, Permit Section
IEPA, FOS, Region 1
Lotus Notes Database

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Section 1 - Source Information

1. Addresses

Source

Saint-Gobain Containers, Inc.
13850 Cottage Grove Avenue
Dolton, Illinois 60419

Owner

Saint-Gobain Containers, Inc.
1509 South Macedonia Avenue
Muncie, Indiana 47307

Operator

Saint-Gobain Containers, Inc.
13850 Cottage Grove Avenue
Dolton, Illinois 60419

Permittee

The Owner and Operator of the source as identified in this table.

2. Contacts

Certified Officials

The source shall submit an Administrative Permit Amendment for any change in the Certified Officials, pursuant to Section 39.5(13) of the Act.

	<i>Name</i>	<i>Title</i>
<i>Responsible Official</i>	Thomas L. Butera	Plant Manager
<i>Delegated Authority</i>	N/A	N/A

Other Contacts

	<i>Name</i>	<i>Phone No.</i>	<i>Email</i>
<i>Source Contact</i>	Omar Youssef	708-201-3129	Omar.Youssef@saint-gobain.com
<i>Technical Contact</i>	Robert Hunt	765-741-7103	robert.a.hunt@saint-gobain.com
<i>Correspondence</i>	Robert Hunt	765-741-7103	robert.a.hunt@saint-gobain.com
<i>Billing</i>	N/A	N/A	N/A

3. Single Source

The source identified in Condition 1.1 above shall be defined to include all the following additional source(s):

<i>I.D. No.</i>	<i>Permit No.</i>	<i>Single Source Name and Address</i>
N/A	N/A	N/A

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Section 2 - General Permit Requirements

1. Prohibitions

- a. It shall be unlawful for any person to violate any terms or conditions of this permit issued under Section 39.5 of the Act, to operate the CAAPP source except in compliance with this permit issued by the IEPA under Section 39.5 of the Act or to violate any other applicable requirements. All terms and conditions of this permit issued under Section 39.5 of the Act are enforceable by USEPA and citizens under the Clean Air Act, except those, if any, that are specifically designated as not being federally enforceable in this permit pursuant to Section 39.5(7)(m) of the Act. [Section 39.5(6)(a) of the Act]
- b. After the applicable CAAPP permit or renewal application submittal date, as specified in Section 39.5(5) of the Act, the source shall not operate this CAAPP source without a CAAPP permit unless the complete CAAPP permit or renewal application for such source has been timely submitted to the IEPA. [Section 39.5(6)(b) of the Act]
- c. No Owner or Operator of the CAAPP source shall cause or threaten or allow the continued operation of an emission source during malfunction or breakdown of the emission source or related air pollution control equipment if such operation would cause a violation of the standards or limitations applicable to the source, unless this CAAPP permit granted to the source provides for such operation consistent with the Act and applicable Illinois Pollution Control Board regulations. [Section 39.5(6)(c) of the Act]
- d. Pursuant to Section 39.5(7)(g) of the Act, emissions from the source are not allowed to exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder, consistent with Section 39.5(17) of the Act and applicable requirements, if any.

2. Emergency Provisions

Pursuant to Section 39.5(7)(k) of the Act, the Owner or Operator of the CAAPP source may provide an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations under this CAAPP permit if the following conditions are met through properly signed, contemporaneous operating logs, or other relevant evidence:

- a.
 - i. An emergency occurred and the source can identify the cause(s) of the emergency.
 - ii. The source was at the time being properly operated.
 - iii. The source submitted notice of the emergency to the IEPA within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
 - iv. During the period of the emergency the source took all reasonable steps to minimize levels of emissions that exceeded the emission limitations, standards, or requirements in this permit.
- b. For purposes of Section 39.5(7)(k) of the Act, "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, such as an act of God, that requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operation error.
- c. In any enforcement proceeding, the source seeking to establish the occurrence of an emergency has the burden of proof. This provision is in addition to any emergency or

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upset provision contained in any applicable requirement. This provision does not relieve the source of any reporting obligations under existing federal or state laws or regulations.

3. General Provisions

a. Duty to Comply

The source must comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the CAA and the Act, and is grounds for any or all of the following: enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. [Section 39.5(7)(o)(i) of the Act]

b. Need to Halt or Reduce Activity is not a Defense

It shall not be a defense for the source 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 this permit. [Section 39.5(7)(o)(ii) of the Act]

c. Duty to Maintain Equipment

The source shall maintain all equipment covered under this permit in such a manner that the performance or operation of such equipment shall not cause a violation of applicable requirements. [Section 39.5(7)(a) of the Act]

d. Disposal Operations

The source shall be operated in such a manner that the disposal of air contaminants collected by the equipment operations, or activities shall not cause a violation of the Act or regulations promulgated there under. [Section 39.5(7)(a) of the Act]

e. Duty to Pay Fees

- i. The source must pay fees to the IEPA consistent with the fee schedule approved pursuant to Section 39.5(18) of the Act, and submit any information relevant thereto. [Section 39.5(7)(o)(vi) of the Act]
- ii. The IEPA shall assess annual fees based on the allowable emissions of all regulated air pollutants, except for those regulated air pollutants excluded in Section 39.5(18)(f) of the Act and insignificant activities in Section 6, at the source during the term of this permit. The amount of such fee shall be based on the information supplied by the applicant in its complete CAAPP permit application. [Section 39.5(18)(a)(ii)(A) of the Act]
- iii. The check should be payable to "Treasurer, State of Illinois" and sent to: Fiscal Services Section, Illinois EPA, P.O. Box 19276, Springfield, IL, 62794-9276. Include on the check: ID #, Permit #, and "CAAPP Operating Permit Fees". [Section 39.5(18)(e) of the Act]

f. Obligation to Allow IEPA Surveillance

Pursuant to Sections 4(a), 39.5(7)(a), and 39.5(7)(p)(ii) of the Act, inspection and entry requirements that necessitate that, upon presentation of credentials and other documents as may be required by law and in accordance with constitutional limitations, the source shall allow the IEPA, or an authorized representative to perform the following:

- i. Enter upon the source's premises where the emission unit(s) are located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit.

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- ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.
- iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
- iv. Sample or monitor any substances or parameters at any location at reasonable times:
 - A. As authorized by the Clean Air Act or the Act, at reasonable times, for the purposes of assuring compliance with this CAAPP permit or applicable requirements; or
 - B. As otherwise authorized by the Act.
- v. Enter and utilize any photographic, recording, testing, monitoring, or other equipment for the purposes of preserving, testing, monitoring, or recording any activity, discharge or emission at the source authorized by this permit.

g. Effect of Permit

- i. Pursuant to Section 39.5(7)(j)(iv) of the Act, nothing in this CAAPP permit shall alter or affect the following:
 - A. The provisions of Section 303 (emergency powers) of the CAA, including USEPA's authority under that Section.
 - B. The liability of the Owner or Operator of the source for any violation of applicable requirements prior to or at the time of permit issuance.
 - C. The applicable requirements of the acid rain program consistent with Section 408(a) of the Clean Air Act.
 - D. The ability of USEPA to obtain information from the source pursuant to Section 114 (inspections, monitoring, and entry) of the Clean Air Act.
- ii. Notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, pursuant to Sections 39.5(7)(j) and (p) of the Act, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements. [35 IAC 201.122 and Section 39.5(7)(a) of the Act]

h. Severability Clause

The provisions of this permit are severable. In the event of a challenge to any portion of this permit, other portions of this permit may continue to be in effect. Should any portion of this permit be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected and the rights and obligations of the source shall be construed and enforced as if this permit did not contain the particular provisions held to be invalid and the applicable requirements underlying these provisions shall remain in force. [Section 39.5(7)(i) of the Act]

4. Testing

- a. Tests conducted to measure composition of materials, efficiency of pollution control devices, emissions from process or control equipment, or other parameters shall be conducted using standard test methods if applicable test methods are not specified by the applicable regulations or otherwise identified in the conditions of this permit. Documentation of the test date, conditions, methodologies, calculations, and test results shall be retained pursuant to the recordkeeping procedures of this permit. Reports of

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any tests conducted as required by this permit or as the result of a request by the IEPA shall be submitted as specified in Condition 7.1 of this permit. [35 IAC Part 201 Subpart J and Section 39.5(7)(a) of the Act]

- b. Pursuant to Section 4(b) of the Act and 35 IAC 201.282, every emission source or air pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of determining ground level and ambient air concentrations of such air contaminants:
 - i. **Testing by Owner or Operator:** The IEPA may require the Owner or Operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the IEPA, at such reasonable times as may be specified by the IEPA and at the expense of the Owner or Operator of the emission source or air pollution control equipment. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The IEPA shall have the right to observe all aspects of such tests.
 - ii. **Testing by the IEPA:** The IEPA shall have the right to conduct such tests at any time at its own expense. Upon request of the IEPA, the Owner or Operator of the emission source or air pollution control equipment shall provide, without charge to the IEPA, necessary holes in stacks or ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary.

5. Recordkeeping

a. Control Equipment Maintenance Records

Pursuant to Section 39.5(7)(b) of the Act, a maintenance record shall be kept on the premises for each item of air pollution control equipment. At a minimum, this record shall show the dates maintenance was performed and the nature of preventative maintenance activities.

b. Retention of Records

- i. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. [Section 39.5(7)(e)(ii) of the Act]
- ii. Pursuant to Section 39.5(7)(a) of the Act, other records required by this permit including any logs, plans, procedures, or instructions required to be kept by this permit shall be retained for a period of at least 5 years from the date of entry unless a different period is specified by a particular permit provision.

c. Availability of Records

- i. Pursuant to Section 39.5(7)(a) of the Act, the Permittee shall retrieve and provide paper copies, or as electronic media, any records retained in an electronic format (e.g., computer) in response to an IEPA or USEPA request during the course of a source inspection.
- ii. Pursuant to Section 39.5(7)(a) of the Act, upon written request by the IEPA for copies of records or reports required to be kept by this permit, the Permittee shall promptly submit a copy of such material to the IEPA. For this purpose, material shall be submitted to the IEPA within 30 days unless additional time is provided by the IEPA or the Permittee believes that the volume and nature of

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requested material would make this overly burdensome, in which case, the Permittee shall respond within 30 days with the explanation and a schedule for submittal of the requested material. (See also Condition 2.9(d))

6. Certification

a. Compliance Certification

- i. Pursuant to Section 39.5(7)(p)(v)(C) of the Act, the source shall submit annual compliance certifications by May 1 unless a different date is specified by an applicable requirement or by a particular permit condition. The annual compliance certifications shall include the following:
 - A. The identification of each term or condition of this permit that is the basis of the certification.
 - B. The compliance status.
 - C. Whether compliance was continuous or intermittent.
 - D. The method(s) used for determining the compliance status of the source, both currently and over the reporting period consistent with the conditions of this permit.
- ii. Pursuant to Section 39.5(7)(p)(v)(D) of the Act, all compliance certifications shall be submitted to USEPA Region 5 in Chicago as well as to the IEPA Compliance Section. Addresses are included in Attachment 3.
- iii. Pursuant to Section 39.5(7)(p)(i) of the Act, all compliance reports required to be submitted shall include a certification in accordance with Condition 2.6(b).

b. Certification by a Responsible Official

Any document (including reports) required to be submitted by this permit shall contain a certification by the responsible official of the source that meets the requirements of Section 39.5(5) of the Act and applicable regulations. [Section 39.5(7)(p)(i) of the Act]. An example Certification by a Responsible Official is included in Attachment 4 of this permit.

7. Permit Shield

- a. Pursuant to Section 39.5(7)(j) of the Act, except as provided in Condition 2.7(b) below, the source has requested and has been granted a permit shield. This permit shield provides that compliance with the conditions of this permit shall be deemed compliance with applicable requirements which were applicable as of the date the proposed permit for this source was issued, provided that either the applicable requirements are specifically identified within this permit, or the IEPA, in acting on this permit application, has determined that other requirements specifically identified are not applicable to this source and this determination (or a concise summary thereof) is included in this permit. This permit shield does not extend to applicable requirements which are promulgated after **Error! Bookmark not defined.** (date USEPA notice started), unless this permit has been modified to reflect such new requirements.
- b. Pursuant to Section 39.5(7)(j) of the Act, this permit and the terms and conditions herein do not affect the Permittee's past and/or continuing obligation with respect to statutory or regulatory requirements governing major source construction or modification under Title I of the CAA. Further, neither the issuance of this permit nor any of the terms or conditions of the permit shall alter or affect the liability of the Permittee for any violation of applicable requirements prior to or at the time of permit issuance.

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8. Title I Conditions

Pursuant to Sections 39(a), 39(f), and 39.5(7)(a) of the Act, as generally identified below, this CAAPP permit may contain certain conditions that relate to requirements arising from the construction or modification of emission units at this source. These requirements derive from permitting programs authorized under Title I of the Clean Air Act (CAA) and regulations thereunder, and Title X of the Illinois Environmental Protection Act (Act) and regulations implementing the same. Such requirements, including the New Source Review programs for both major (i.e., PSD and nonattainment areas) and minor sources, are implemented by the IEPA.

- a. This permit may contain conditions that reflect requirements originally established in construction permits previously issued for this source. These conditions include requirements from preconstruction permits issued pursuant to regulations approved or promulgated by USEPA under Title I of the CAA, as well as requirements contained within construction permits issued pursuant to state law authority under Title X of the Act. Accordingly, all such conditions are incorporated into this CAAPP permit by virtue of being either an "applicable Clean Air Act requirement" or an "applicable requirement" in accordance with Section 39.5 of the Act. These conditions are identifiable herein by a designation to their origin of authority.
- b. This permit may contain conditions that reflect necessary revisions to requirements established for this source in preconstruction permits previously issued under the authority of Title I of the CAA. These conditions are specifically designated herein as "TIR".
 - i. Revisions to original Title I permit conditions are incorporated into this permit through the combined legal authority of Title I of the CAA and Title X of the Act. Public participation requirements and appeal rights shall be governed by Section 39.5 of the Act.
 - ii. Revised Title I permit conditions shall remain in effect through this CAAPP permit, and are therefore enforceable under the same, so long as such conditions do not expire as a result of a failure to timely submit a complete renewal application or are not removed at the applicant's request.
- c. This permit may contain conditions that reflect new requirements for this source that would ordinarily derive from a preconstruction permit established under the authority of Title I of the CAA. These conditions are specifically designated herein as "TIN".
 - i. The incorporation of new Title I requirements into this CAAPP permit is authorized through the combined legal authority of Title I of the CAA and Title X of the Act. Public participation requirements and appeal rights shall be governed by Section 39.5 of the Act.
 - ii. Any Title I conditions that are newly incorporated shall remain in effect through this CAAPP permit, and are therefore enforceable under the same, so long as such conditions do not expire as a result of a failure to timely submit a complete renewal application or are not removed at the applicant's request.

9. Reopening and Revising Permit

a. Permit Actions

This permit may be modified, revoked, reopened and reissued, or terminated for cause in accordance with applicable provisions of Section 39.5 of the Act. The filing of a request by the source for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [Section 39.5(7)(o)(iii) of the Act]

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b. Reopening and Revision

Pursuant to Section 39.5(15)(a) of the Act, this permit must be reopened and revised if any of the following occur:

- i. Additional requirements become applicable to the equipment covered by this permit and three or more years remain before expiration of this permit;
- ii. Additional requirements become applicable to the source for acid deposition under the acid rain program;
- iii. The IEPA or USEPA determines that this permit contains a material mistake or that an inaccurate statement was made in establishing the emission standards or limitations, or other terms or conditions of this permit; or
- iv. The IEPA or USEPA determines that this permit must be revised or revoked to ensure compliance with the applicable requirements.

c. Inaccurate Application

Pursuant to Sections 39.5(5)(e) and (i) of the Act, the IEPA has issued this permit based upon the information submitted by the source in the permit application referenced on page 1 of this permit. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation or reopening of this CAAPP under Section 39.5(15) of the Act.

d. Duty to Provide Information

The source shall furnish to the IEPA, within a reasonable time specified by the IEPA any information that the IEPA may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the source shall also furnish to the IEPA copies of records required to be kept by this permit. [Section 39.5(7)(o)(v) of the Act]

10. Emissions Trading Programs

No permit revision shall be required for increases in emissions allowed under any USEPA approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for elsewhere in this permit and that are authorized by the applicable requirement. [Section 39.5(7)(o)(vii) of the Act]

11. Permit Renewal

- a. Upon the expiration of this permit, if the source is operated, it shall be deemed to be operating without a permit unless a timely and complete CAAPP application has been submitted for renewal of this permit. However, if a timely and complete application to renew this CAAPP permit has been submitted, the terms and all conditions of the most recent issued CAAPP permit will remain in effect until the issuance of a renewal permit. [Sections 39.5(5)(l) and (o) of the Act]
- b. For purposes of permit renewal, a timely application is one that is submitted no less than 9 months prior to the date of permit expiration. [Section 39.5(5)(n) of the Act]

12. Permanent Shutdown

Pursuant to Section 39.5(7)(a) of the Act, this permit only covers emission units and control equipment while physically present at the source location(s). Unless this permit specifically provides for equipment relocation, this permit is void for the operation or activity of any item of equipment on the date it is removed from the permitted location(s) or permanently shut down. This permit expires if all equipment is removed from the permitted location(s), notwithstanding the expiration date specified on this permit.

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13. Startup, Shutdown, and Malfunction

Pursuant to Section 39.5(7)(a) of the Act, in the event of an action to enforce the terms or conditions of this permit, this permit does not prohibit a Permittee from invoking any affirmative defense that is provided by the applicable law or rule.

Section 3 - Source Requirements

1. Applicable Requirements

Pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act, the Permittee shall comply with the following applicable requirements. These requirements are applicable to all emission units (including insignificant activities unless specified otherwise in this Section) at the source.

a. Fugitive Particulate Matter

- i. Pursuant to 35 IAC 212.301 and 35 IAC 212.314, no person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally toward the zenith at a point beyond the property line of the source unless the wind speed is greater than 25 mph.
- ii. Compliance Method (Fugitive Particulate Matter)

Upon request by the IEPA, the Permittee shall conduct observations at the property line of the source for visible emissions of fugitive particulate matter from the source to address compliance with 35 IAC 212.301. For this purpose, daily observations shall be conducted for a week for particular area(s) of concern at the source, as specified in the request, observations shall begin either within one day or three days of receipt of a written request from the IEPA, depending, respectively, upon whether observations will be conducted by employees of the Permittee or a third-party observer hired by the Permittee to conduct observations on its behalf. The Permittee shall keep records for these observations, including identity of the observer, the date and time of observations, the location(s) from which observations were made, and duration of any fugitive emissions event(s).

b. Emissions Reduction Market System (ERMS)

Pursuant to 35 IAC Part 205, ERMS seasonal emissions of VOM during the seasonal allotment period from May 1 through September 30 shall not exceed 15 tons, not including VOM emissions from insignificant emission units and activities as identified in Section 6 of this permit. The Permittee shall comply with all applicable requirements in Section 7.3 of this permit.

c. Ozone Depleting Substances

Pursuant to 40 CFR 82.150(b), the Permittee shall comply with the standards for recycling and emissions reduction of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

- i. Pursuant to 40 CFR 82.156, persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices.
- ii. Pursuant to 40 CFR 82.158, equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment.
- iii. Pursuant to 40 CFR 82.161, persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program.
- iv. Pursuant to 40 CFR 82 Subpart B, any person performing service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner shall comply with 40 CFR 82 Subpart B, Servicing of Motor Vehicle Air Conditioners.

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- v. Pursuant to 40 CFR 82.166, all persons shall comply with the reporting and recordkeeping requirements of 40 CFR 82.166.

d. Asbestos Demolition and Renovation

- i. Asbestos Fees. Pursuant to Section 9.13(a) of the Act, for any site for which the Owner or Operator must file an original 10-day notice of intent to renovate or demolish pursuant to Condition 3.1(d)(ii) below and 40 CFR 61.145(b), the owner or operator shall pay to the IEPA with the filing of each 10-day notice a fee of \$150.
- ii. Pursuant to 40 CFR 61 Subpart M, Standard of Asbestos, prior to any demolition or renovation at this facility, the Permittee shall fulfill notification requirements of 40 CFR 61.145(b).
- iii. Pursuant to 40 CFR 61.145(c), during demolition or renovation, the Permittee shall comply with the procedures for asbestos emission control established by 40 CFR 61.145(c).

e. Future Emission Standards

Pursuant to Section 39.5(15)(a) of the Act, this source shall comply with any new or revised applicable future standards of 40 CFR 60, 61, 62, or 63; or 35 IAC Subtitle B after the date issued of this permit. The Permittee shall, in accordance with the applicable regulation(s), comply with the applicable requirements by the date(s) specified and shall certify compliance with the applicable requirements of such regulation(s) as part of the annual compliance certification, as required by Condition 2.6(a). This permit may also have to be revised or reopened to address such new regulations in accordance to Condition 2.9.

2. Applicable Plans and Programs

Pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act, the Permittee shall comply with the following applicable requirements. These requirements are applicable to all emission units (including insignificant activities unless specified otherwise in this Section) at the source.

a. Fugitive PM Operating Program

- i. Pursuant to 35 IAC 212.309, this source shall be operated under the provisions of Fugitive PM Operating Program prepared by the Permittee and submitted to the IEPA for its review. The Fugitive PM Operating Program shall be designed to significantly reduce fugitive particulate matter emissions, pursuant to 35 IAC 212.309(a). The Permittee shall comply with the Fugitive PM Operating Program and any amendments to the Fugitive PM Operating Program submitted pursuant to Condition 3.2(a)(ii). As a minimum, the Fugitive PM Operating Program shall include provisions identified in 35 IAC 212.310(a) through (g) and the following:
 - A. A detailed description of the best management practices utilized to achieve compliance with 35 IAC 212.304 through 212.308.
 - B. Estimated frequency of application of dust suppressants by location.
 - C. Such other information as may be necessary to facilitate the IEPA's review of the Fugitive PM Operating Program.
- ii. Pursuant to 35 IAC 212.312, the Fugitive PM Operating Program shall be amended from time to time by the Permittee so that the Fugitive PM Operating Program is current. Such amendments shall be consistent with the requirements set forth by this Condition 3.2(a) and shall be submitted to the IEPA within 30 days of such amendment. Any future revision to the Fugitive PM Operating Program made by the

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Permittee during the permit term is automatically incorporated by reference provided the revision is not expressly disapproved, in writing, by the IEPA within 30 days of receipt of the revision. In the event that the IEPA notifies the Permittee of a deficiency with any revision to the Fugitive PM Operating Program, the Permittee shall be required to revise and resubmit the Fugitive PM Operating Program within 30 days of receipt of notification to address the deficiency pursuant to Section 39.5(7)(a) of the Act.

- iii. The Fugitive PM Operating Program, as submitted by the Permittee on November 8, 2013 (Revision #2), is incorporated herein by reference. The document constitutes the formal Fugitive PM Operating Program required under 35 IAC 212.310, addressing the control of fugitive particulate matter emissions from all plant roadways, including the iron-making and steel-making roads, storage piles, access areas near storage piles, and other subject operations located at the facility that are subject to 35 IAC 212.309.
- iv. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep a copy of the Fugitive PM Operating Program, any amendments or revisions to the Fugitive PM Operating Program (as required by Condition 3.2(a)), and the Permittee shall also keep a record of activities completed according to the Fugitive PM Operating Program.

b. PM₁₀ Contingency Measure Plan

- i. Pursuant to 35 IAC 212.700, the Permittee shall have on file with the IEPA a PM₁₀ Contingency Measure Plan reflecting the PM₁₀ emission reduction set forth in 35 IAC 212.701 and 212.703.
- ii. The PM₁₀ Contingency Measure Plan shall be implemented by the Permittee in accordance with 35 IAC 212.704 upon notification from the IEPA.
- iii. Pursuant to 35 IAC 212.701(c), for operational changes subject to 35 IAC 212.304, 212.305, 212.306, 212.308, 212.316(a) through (e), 212.424 or 212.464 which require either a new permit or a revision to an existing permit, the Permittee shall, within 30 days after such changes, submit a request to modify this CAAPP permit in order to include a new, appropriate PM₁₀ Contingency Measure Plan.
- iv. The PM₁₀ Contingency Measure Plan, as submitted by the Permittee on November 8, 2013 (Plan Revision #1, August 15, 2005), is incorporated herein by reference. The document constitutes the formal PM₁₀ Contingency Measure Plan required by 35 IAC 212.701, addressing the Levels 1 and 2 control measures for reducing annual source-wide fugitive emissions of PM₁₀ from plant roads (paved and unpaved) and materials handling operations in the event of an exceedance of the 24-hour ambient air quality standard for PM₁₀ under 35 IAC 212.704 or 212.705.
- v. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep a copy of the PM₁₀ Contingency Measure Plan, any amendments or revisions to the PM₁₀ Contingency Measure Plan (as required by Condition 3.2(b)), and the Permittee shall also keep a record of activities completed according to the PM₁₀ Contingency Measure Plan.

c. Episode Action Plan

- i. Pursuant to 35 IAC 244.141, the Permittee shall have on file with the IEPA an Episode Action Plan for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The Episode Action Plan shall contain the information specified in 35 IAC 244.144.
- ii. The Permittee shall immediately implement the appropriate steps described in the Episode Action Plan should an air pollution alert or emergency be declared, as required by 35 IAC 244.169, or as may otherwise be required under 35 IAC 244, Appendix D.

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- iii. Pursuant to 35 IAC 244.143(d), if an operational change occurs at the source which invalidates the Episode Action Plan, a revised Episode Action Plan shall be submitted to the IEPA for review within 30 days of the change and is automatically incorporated by reference provided the revision is not expressly disapproved, in writing, by the IEPA within 30 days of receipt of the revision. In the event that the IEPA notifies the Permittee of a deficiency with any revision to the Episode Action Plan, the Permittee shall be required to revise and resubmit the Episode Action Plan within 30 days of receipt of notification to address the deficiency pursuant to Section 39.5(7)(a) of the Act.
- iv. The Episode Action Plan, as submitted by the Permittee on October 30, 2013, is incorporated herein by reference. The document constitutes the formal Episode Action Plan required by 35 IAC 244.142, addressing the actions that will be implemented to reduce SO₂, PM₁₀, NO₂, CO and VOM emissions from various emissions units in the event of a yellow alert, red alert or emergency issued under 35 IAC 244.161 through 244.165.
- v. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep a copy of the Episode Action Plan, any amendments or revisions to the Episode Action Plan (as required by Condition 3.2(c)), and the Permittee shall also keep a record of activities completed according to the Episode Action Plan.

d. Risk Management Plan (RMP)

Should this stationary source, as defined in 40 CFR 68.3, become subject to the federal regulations for Chemical Accident Prevention in 40 CFR Part 68, then the Permittee shall submit a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a); or submit a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan, as part of the annual compliance certification required by Condition 2.6(a). This condition is imposed in this permit pursuant to 40 CFR 68.215(a)(2)(i) and (ii).

3. Title I Requirements

As of the date of issuance of this permit, there are no source-wide Title I limits that need to be included in this Condition.

4. Synthetic Minor Limits

As of the date of issuance of this permit, there are no source-wide synthetic minor limits that need to be included in this Condition.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows:
 - I. Requirements in Conditions 3.1(a), 3.1(b), 3.1(c), and 3.1(d).
 - II. Requirements in Conditions 3.2(a), 3.2(b), and 3.2(c).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).

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- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
 - A. Date and time of the deviation.
 - B. Emission unit(s) and/or operation involved.
 - C. The duration of the event.
 - D. Probable cause of the deviation.
 - E. Corrective actions or preventative measures taken.
- iv. All deviation reports required in this Permit shall be identified, summarized, and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).

b. Semiannual Reporting

- i. Pursuant to Section 39.5(7)(f)(i) of the Act, the Permittee shall submit Semiannual Monitoring Reports to the IEPA, Air Compliance Section, summarizing required monitoring as part of the Compliance Methods in this Permit submitted every six months as follows, unless more frequent reporting is required in other parts of this permit.

<u>Monitoring Period</u>	<u>Report Due Date</u>
January through June	July 31
July through December	January 31

- ii. The Semiannual Monitoring Report must be certified by a Responsible Official consistent with Condition 2.6(b).

c. Annual Emissions Reporting

Pursuant to 35 IAC Part 254, the Source shall submit an Annual Emission Report to the Air Quality Planning Section, due by May 1 of the year following the calendar year in which the emissions took place. All records and calculations upon which the verified and reported data are based must be retained by the source.

Section 4 - Emission Unit Requirements

4.1 Raw Material Handling

1. Emission Units and Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
West Raw Material Unloading (Conveyors, Bucket Elevator)	PM, PM ₁₀	1955	None	Dust Collectors	None
East Raw Material Unloading (Conveyors, Bucket Elevator)	PM, PM ₁₀	1955	None	Dust Collector	None
East Raw Material Storage (Storage Bins)	PM, PM ₁₀	1955	None	Dust Collector	None
East Raw Material Processing (Crusher and Mixer)	PM, PM ₁₀	1955	None	None	None

2. Applicable Requirements

For the emission units in Condition 4.1(1) above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

a. i. Opacity Requirements

A. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.

ii. Compliance Method (Opacity Requirements)

Monitoring

A. Pursuant to Sections 39.5(7)(b) and (d) of the Act, the Permittee shall perform visible emission observations from each individual stack, control device, or activity in accordance with Method 22 on at least a semi-annual basis. The observations shall be comprised of one observation period of at least six (6) minutes. If visible emissions are observed, the Permittee shall take corrective action within 24 hours of such observation. Corrective action may include, but is not limited to, shut down of the operation, maintenance and repair, and/or adjustment of fuel usage. If corrective action was taken, the Permittee shall perform a follow up observation for visible emissions in accordance with Method 22. If visible emissions continue, then measurements of opacity in accordance with Method 9 and Section 7.1 shall be conducted within 10 days after the last round of the visible emission observations were conducted, in accordance with Condition 2.4.

Recordkeeping

B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for each observation performed. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, the findings of the observation including the presence of any visible emissions, and a description of any corrective action taken

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including if the corrective action took place within 24 hours of the observation.

- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for all Method 9 and Method 22 opacity measurements and visible emissions observations made in accordance with Condition 4.1.2(a)(ii)(A) above.

b. i. Particulate Matter Requirements (PM/PM₁₀)

- A. Pursuant to 35 IAC 212.322(a), no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit for which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, which, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.322(c) (See Condition 7.2).
- B. Pursuant to 35 IAC 212.324(b), no person shall cause or allow the PM₁₀ emissions into the atmosphere to exceed 68.7 mg/scm (0.03 gr/scf) during any one hour period. However, pursuant to 35 IAC 212.324(d), this regulatory standard shall not apply to those emission units with no visible emissions other than fugitive particulate matter.
- C. Pursuant to Construction Permit #12100052, total PM emissions (including PM₁₀ and PM_{2.5} with identical values) from all material handling operations shall not exceed 0.02 ton/year. [T1]

ii. Compliance Method (PM Requirements)

Monitoring

- A. Pursuant to Construction Permit #12100052, compliance with the annual limits shall be determined from a running total of 12 months of data.
- B. Pursuant to 35 IAC 212.324(d), compliance with PM₁₀ emission limit in Condition 4.1(2)(b)(i)(B) above shall be demonstrated when no visible emissions are observed during semi-annual observation as discussed in Condition 4.1(2)(a)(ii) above.
- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall conduct semi-annual inspections of all dust collectors to ensure that no clogs have been developed and dust collectors have not malfunctioned. If required by results of these inspections, maintenance and repair shall be done to resolve found problems.

Testing

- D. Pursuant to Section 39.5(7)(b) of the Act, if opacity was observed during a routine semi-annual visible emissions observations and/or opacity reading, as discussed in Condition 4.1(2)(a) above, and corrective actions taken after subsequent Method 22 and Method 9 testing do not eliminate visible emissions, the Permittee shall measure concentration of PM₁₀ emissions in the stack(s) where opacity was observed by using Method 201 or Method 5 (conservatively assuming that all emissions are PM₁₀). Such emission tests shall be conducted within 90 days from the date opacity being observed unless corrective action eliminates visible emissions within this 90 day period. Testing shall be conducted every 12 months thereafter if the margin of compliance of the previous emission test demonstrates compliance with the PM₁₀ emission standard in Condition 4.1(2)(b)(i)(B) above is less than 30% with this standard. The Permittee shall comply with all the applicable testing requirements of Section 7.1.

Recordkeeping

- E. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of PM emissions from each raw material handling operation or group of operations, with supporting documentation and calculations.
- F. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of scheduled or unscheduled inspections of dust collectors along with the logs of maintenance/repair performed.

3. Non-Applicability Determinations

- a. Operations controlled by dust collectors are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources because these operations do not have potential pre-control device PM emissions that equals or exceeds major source threshold levels.
- b. Operations not controlled by air pollution control device(s) are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources because these operations do not have any air pollution control devices used to comply with any applicable emission limit or standard.

4. Other Requirements

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
 - I. Requirements in Conditions 4.1(2)(a) and 4.1(2)(b).
 - B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
 - A. Date and time of the deviation.
 - B. Emission unit(s) and/or operation involved.
 - C. The duration of the event.
 - D. Probable cause of the deviation.
 - E. Corrective actions or preventative measures taken.

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4.2 Mixers

1. Emission Units and Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Mixers #1, #2, #3	PM, PM ₁₀	1955	None	Filter Devices	None

2. Applicable Requirements

For the emission units in Condition 4.2(1) above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

a. i. Opacity Requirements

A. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.

ii. Compliance Method (Opacity Requirements)

Monitoring

A. Pursuant to Sections 39.5(7)(b) and (d) of the Act, the Permittee shall perform visible emission observations from each individual stack or activity in accordance with Method 22 on at least a semi-annual basis. The observations shall be comprised of one observations period of at least six (6) minutes. If visible emissions are observed, the Permittee shall take corrective action within 24 hours of such observation. Corrective action may include, but is not limited to, shut down of the operation, maintenance and repair, and/or adjustment of fuel usage. If corrective action was taken, the Permittee shall perform a follow up observation for visible emissions in accordance with Method 22. If visible emissions continue, then measurements of opacity in accordance with Method 9 and Section 7.1 shall be conducted within 10 days after the last round of the visible emission observations were conducted, in accordance with Condition 2.4.

Recordkeeping

B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for each observation performed. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, the findings of the observation including the presence of any visible emissions, and a description of any corrective action taken including if the corrective action took place within 24 hours of the observation.

C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for all Method 9 and Method 22 opacity measurements and visible emissions observations made in accordance with Condition 4.2.2(a)(ii)(A) above.

b. i. Particulate Matter Requirements (PM/PM₁₀/PM_{2.5})

A. Pursuant to 35 IAC 212.321(a), no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit for which, either alone or in combination with the

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emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, which, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c) (See Condition 7.2).

- B. Pursuant to 35 IAC 212.324(b), no person shall cause or allow the PM₁₀ emissions into the atmosphere to exceed 68.7 mg/scm (0.03 gr/scf) during any one hour period. However, pursuant to 35 IAC 212.324(d), this regulatory standard shall not apply to those emission units with no visible emissions other than fugitive particulate matter.
- C. Pursuant to Construction Permit #12100052, PM, PM₁₀, and PM_{2.5} emissions from mixers shall not exceed the following limits: [T1]

Mixers	PM (ton/yr)	PM ₁₀ (ton/yr)	PM _{2.5} (ton/yr)
#1	1.27	1.23	1.19
#2	1.25	1.22	1.19
#3	1.25	1.22	1.19

ii. Compliance Method (PM Requirements)

Monitoring

- A. Pursuant to Construction Permit #12100052 and Condition 4.2(2)(b)(i)(C), compliance with the annual limits shall be determined from a running total of 12 months of data.
- B. Pursuant to 35 IAC 212.324(d), compliance with PM₁₀ emission limit in Condition 4.2(2)(i)(B) above shall be demonstrated when no visible emissions are observed during semi-annual observation as discussed in Condition 4.2(2)(a)(ii) above.

Testing

- C. Pursuant to Section 39.5(7)(b) of the Act, if opacity was observed during a routine semi-annual visible emissions observations and/or opacity reading, as discussed in Condition 4.2(2)(a) above, and corrective actions taken after subsequent Method 22 and Method 9 testing do not eliminate visible emissions, the Permittee shall measure concentration of PM₁₀ emissions in the stack(s) where opacity was observed by using Method 201 or Method 5 (conservatively assuming that all emissions are PM₁₀). Such emission tests shall be conducted within 90 days from the date opacity being observed unless corrective action eliminates visible emissions within this 90 day period. Testing shall be conducted every 12 months thereafter if the margin of compliance of the previous emission test demonstrates compliance with the PM₁₀ emission standard in Condition 4.2(2)(b)(i)(B) is less than 30% with this standard. The Permittee shall comply with all the applicable testing requirements of Section 7.1.

Recordkeeping

- D. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of PM emissions from each mixer, with supporting documentation and calculations.

3. Non-Applicability Determinations

- a. Mixers are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because each of these emission units do not have potential pre-control device emissions of any applicable regulated air pollutant that equals or exceeds major source threshold levels.

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4. Other Requirements

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
 - I. Requirements in Conditions 4.2(2)(a) and 4.2(2)(b).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
 - A. Date and time of the deviation.
 - B. Emission unit(s) and/or operation involved.
 - C. The duration of the event.
 - D. Probable cause of the deviation.
 - E. Corrective actions or preventative measures taken.

4.3 Glass Melting Furnaces

1. Emission Units and Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Furnace #1	PM, PM ₁₀ , PM _{2.5} , SO ₂ , VOM, CO, NO _x , Pb, H ₂ SO ₄ , GHG	1955	2007 and Planned December 2014*	Catalyst Embedded Ceramic Filter System with Reagent Injection*	NO _x and SO ₂ CEMS*
Furnace #2	PM, PM ₁₀ , PM _{2.5} , SO ₂ , VOM, CO, NO _x , Pb, H ₂ SO ₄ , GHG	1955	2011 and After December 2014*		NO _x and SO ₂ CEMS*
Furnace #3	PM, PM ₁₀ , PM _{2.5} , SO ₂ , VOM, CO, NO _x , Pb, H ₂ SO ₄ , GHG	1955	Planned June 2015*		NO _x and SO ₂ CEMS*

* Modification of furnaces and installation of control device(s) should be done by the dates established in the Consent Decree, Case Action No. 2:10-CV-00121-TSZ. All applicable requirements of the Consent Decree are incorporated in Section 7.5 of this permit, as part of the Construction Permit 12100052, Attachment 2.

2. Applicable Requirements

For the emission units in Condition 4.3(1) above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

a. i. Opacity Requirements

A. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.

ii. Compliance Method (Opacity Requirements)

Monitoring

A. Pursuant to Sections 39.5(7)(b) and (d) of the Act, the Permittee shall perform opacity observations from each individual stack associated with glass melting furnaces or a stack(s) of the control device(s) shared by those furnaces in accordance with Method 9 on at least annual basis. If visible emissions greater than 30% opacity are observed, the Permittee shall take corrective action within 24 hours of such observation. Corrective action may include, but is not limited to, shut down of the operation, maintenance and repair, and/or adjustment of fuel usage. If corrective action was taken, the Permittee shall perform a follow up opacity observation in accordance with Method 9.

Recordkeeping

B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for each observation performed. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, the findings of the observation including the presence of any visible emissions, and a description of any corrective action taken

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including if the corrective action took place within 24 hours of the observation.

- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for all Method 9 opacity measurements made in accordance with Condition 4.1.2(a)(ii)(A) above.

b. i. Particulate Matter Requirements (PM)

- A. Pursuant to 35 IAC 212.321(a), no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit for which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, which, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c) (See Condition 7.2).
- B. Pursuant to Construction Permit 12100052, the Permittee shall comply with interim standard and shall not exceed 1.0 pound of filterable PM per ton of glass produced. [T1].
- C. Pursuant to Construction Permit 12100052, no later than December 31, 2014, the Permittee shall comply with the PM emission limit of 0.2 pounds of filterable PM per ton of glass produced. [T1]
- D. Pursuant to Construction Permit 12100052, after modification of the glass melting furnaces is complete, but no later than December 31, 2014, the furnaces will be subject to the PM limit established in 40 CFR 60.292, Table CC-1, and shall not exceed 0.1 gram of PM/kg of glass produced. [T1]
- E. Pursuant to Construction Permit 12100052, annual total PM emissions shall not exceed the following limits (ton/year) after December 31, 2014, after installation of required controls (for NO_x, SO₂ and PM): [T1]

Furnace #1	18.31
Furnace #2	16.86
Furnace #3	14.78

ii. Compliance Method (PM Requirements)

Monitoring

- A. Pursuant to Construction Permit 12100052, compliance with annual limits shall be determined from a running total of 12 months of data. Compliance shall be determined considering all emissions, including emissions during bypass of the control system.

Testing

- B. Pursuant to Construction Permit 12100052 compliance with final PM limit shall be demonstrated through testing by using Method 5 (for filterable PM) and Method 5/Method 202 (for total PM) no later than December 31, 2015 and once each calendar year thereafter.
- C. Pursuant to 40 CFR 60.8 and 40 CFR 60.296(d), within 180 days after the glass melting furnaces become subject to 40 CFR Part 60, Subpart CC, but no later than June 30, 2015, the Permittee shall test PM emissions from the furnaces by using Method 5.
- D. The Permittee shall comply with all the requirements of Section 7.1.

Recordkeeping

E. Pursuant to Construction Permit 12100052, the Permittee shall keep the records of PM emissions with supporting documentation and calculations.

c. i. **Particulate Matter Requirements (less than 10 microns) (PM₁₀)**

A. Pursuant to 35 IAC 212.425(b)(7), filterable PM₁₀ emissions shall not exceed 0.65 lb/ton of glass produced for a glass melting furnace during any one hour period. This emission limit shall not apply when no visible emissions (other than fugitive particulate matter) are observed, pursuant to 35 IAC 212.425(c).

B. Pursuant to Construction Permit 12100052, annual PM₁₀* emissions shall not exceed the following limits (ton/year) after installation of required control: [T1]

Furnace #1	18.31
Furnace #2	16.86
Furnace #3	14.78

* Includes filterable and condensable

ii. Compliance Method (PM₁₀ Requirements)

Monitoring

A. Pursuant to Construction Permit 12100052 and Condition 4.3(2)(c)(i)(B) above, compliance with annual limits shall be determined from a running total of 12 months of data. Compliance shall be determined considering all emissions, including emissions during bypass of the control system.

B. Pursuant to 35 IAC 212.425(c), compliance with PM₁₀ emission limit in Condition 4.3(2)(c)(i)(A) above shall be demonstrated when no visible emissions are observed during semi-annual observations as discussed in Condition 4.3(2)(a)(ii) above.

Testing

C. Pursuant to Construction Permit 12100052 and Section 39.5(7)(a) of the Act, compliance with PM₁₀ limits in Conditions 4.3(2)(c)(i)(A) and 4.3(2)(c)(i)(B) shall be demonstrated by either testing filterable PM emissions using Method 5 (conservatively assuming that all emissions are PM₁₀) or PM₁₀ emissions by using Method 201A. Condensable PM₁₀ emissions to demonstrate compliance with Condition 4.3(2)(c)(i)(B) shall be tested by using Method 202 or other USEPA methods approved by the Illinois EPA as part of the testing plan provided by the Permittee. These tests shall be conducted within 48 months of the issuance of this permit.

D. The Permittee shall comply with all the requirements of Section 7.1.

Recordkeeping

E. Pursuant to Construction Permit 12100052, the Permittee shall keep the records of PM₁₀ emissions with supporting documentation and calculations.

d. i. **Particulate Matter Requirements (less than 2.5 microns) (PM_{2.5})**

A. Pursuant to Construction Permit 12100052, annual PM_{2.5}* emissions shall not exceed the following limits (ton/year) after installation of required control: [T1]

Furnace #1	18.31
Furnace #2	16.86
Furnace #3	14.78

* Includes filterable and condensable

ii. Compliance Method (PM_{2.5} Requirements)

Monitoring

- A. Pursuant to Construction Permit 12100052, compliance with annual limits shall be determined from a running total of 12 months of data. Compliance shall be determined considering all emissions, including emissions during bypass of the control system.

Testing

- B. Pursuant to Construction Permit 12100052 and Section 39.5(7)(a) of the Act, compliance with PM_{2.5} limits in Condition 4.3(2)(d)(i)(A) shall be demonstrated by either testing filterable PM emissions using Method 5 (conservatively assuming that all emissions are PM_{2.5}) or PM_{2.5} emissions by using Method 201A. Condensable PM_{2.5} emissions shall be tested by using Method 202 or other USEPA methods approved by the Illinois EPA as part of the testing plan provided by the Permittee. These tests shall be conducted within 48 months of the issuance of this permit.
- C. The Permittee shall comply with all the requirements of Section 7.1.

Recordkeeping

- D. Pursuant to Construction Permit 12100052, the Permittee shall keep the records of PM_{2.5} emissions with supporting documentation and calculations.

e. i. Sulfur Dioxide Requirements (SO₂)

- A. Pursuant to Construction Permit 12100052, the Permittee shall comply with interim standard and shall not exceed 2.5 pounds of SO₂ per ton of glass produced by each glass melting furnace or 2.5 pounds of SO₂ per ton of glass produced by averaging from all glass melting furnaces, except during startup, malfunction, maintenance, color transition and abnormally low production rate days. [T1]
- B. Pursuant to Construction Permit 12100052 the Permittee shall comply with either of the following emission limits after modification of the glass melting furnaces is complete and control device(s) is in operation, but no later than December 31, 2014: [T1]
- I. If the average inlet 24-hour block average is equal to or greater than 167 parts per million by volume dry (ppmvd) then the removal efficiency on a 24-hour Block Average for that Day and a Removal Efficiency 30-day Rolling Average shall be calculated. The Permittee shall operate the SO₂ control system such that the Removal Efficiency 30-day Rolling Average is greater than or equal to 70 percent; or
- II. If the average inlet 24-hour block average is less than 167 ppmvd, then the Outlet 24-hour Block Average for that Day and Outlet 30-day Rolling Average shall be calculated. The Permittee shall operate the SO₂ control system such that the Outlet 30-day Rolling Average is less than or equal to 50 ppmvd.

- C. Pursuant to Construction Permit 12100052 the Permittee shall comply with the following limits during all phases of control device startup and up to the first seven (7) days of furnace startup: [T1]
 - I. During the startup period, the Permittee shall limit the amount of sulfur added to the batch materials to 2.6 pounds per ton of total batch material (including cullet) or less.
 - II. For no more than the first seven (7) days of furnace startup, the furnace exhaust may bypass the control system to avoid having the operating inlet temperature of the control system fall below its operational range. During these bypass days, no more than 15.0 million standard cubic feet of natural gas shall be burned in that furnace.
- D. Pursuant to Construction Permit 12100052, annual SO₂ emissions shall not exceed the following limits (ton/year) after December 31, 2014, after installation of required controls (for NO_x, SO₂ and PM): [T1]

Furnace #1	34.85
Furnace #2	41.45
Furnace #3	53.71

ii. Compliance Method (SO₂ Requirements)

Monitoring

- A. Pursuant to Construction Permit 12100052, compliance with annual limits shall be determined from a running total of 12 months of data. Compliance shall be determined considering all emissions, including emissions during bypass of the control system. [T1]
- B. Pursuant to Construction Permit 12100052 after installation of the required control(s), but no later than December 31, 2014, the compliance with SO₂ 30-day rolling average limits shall be demonstrated as follows, except during control device startup, up to first seven (7) days of furnace startup, malfunction or maintenance of the control:
 - I. No dilution air will be intentionally added to the stack gases between the affected control system and the CEMS. When determining compliance with all affected control system limits, there shall be no oxygen correction, as per vendor guarantee.
 - II. The Permittee shall determine a daily inlet 24-hour block average. The compliance limit for each operating day will depend on the daily inlet 24-hour block average concentration.
- C. Pursuant to Construction Permit 12100052, SO₂ emissions during malfunction or maintenance of a control system may be calculated by CEMS accordingly
- D. Pursuant to Construction Permit 12100052, the Permittee shall install, calibrate, certify, maintain and operate SO₂ CEMS on furnaces #1 through #3 by December 31, 2014.
- E. Pursuant to Construction Permit 12100052, the Permittee shall install, calibrate, certify, maintain and operate SO₂ CEMS.
- F. See Condition 4.1(2)(n) for more requirements related to CEMS.

Recordkeeping

- G. Pursuant to Construction Permit 12100052, the Permittee shall for any operating day that the Permittee is excluding emissions from the relevant emission rate 30-day rolling average, record the date, the exception (during periods of control system startup, up to the first seven (7) days of furnace startup, during malfunction of the control system, or during maintenance of the control system) under which it is excluded, a calculation of the applicable limit (pounds per day) according to the equations in Construction Permit 12100052, and the recorded emissions according to the CEMS (in pounds per day).
- H. Pursuant Construction Permit 12100052, during all furnace startup phases, the Permittee shall keep records of the amount of sulfur added to the batch materials in pounds per ton of total batch material.
- I. Pursuant to Construction Permit 12100052, the Permittee shall keep the records of SO₂ emissions with supporting documentation and calculations.
- J. Pursuant to Construction Permit 12100052, during initial furnace startup when the furnace exhaust is allowed to bypass the control system, the Permittee shall keep the records of natural gas burned in that furnace.

f. i. Volatile Organic Material Requirements (VOM)

- A. Pursuant to Construction Permit 12100052, annual VOM emissions shall not exceed the following limits (ton/year) after December 31, 2014, after installation of required controls (for NO_x, SO₂ and PM): [T1]

Furnace #1	12.63
Furnace #2	10.22
Furnace #3	9.86

ii. Compliance Method (VOM Requirements)

Monitoring

- A. Pursuant to Construction Permit 12100052, compliance with annual limits shall be determined from a running total of 12 months of data. Compliance shall be determined considering all emissions, including emissions during bypass of the control system.

Recordkeeping

- B. Pursuant to Construction Permit 12100052, the Permittee shall keep the records of VOM emissions with supporting documentation and calculations.

g. i. Carbon Monoxide Requirements (CO)

- A. Pursuant to Construction Permit 12100052, annual CO emissions shall not exceed the following limits (ton/year) after December 31, 2014, after installation of required controls (for NO_x, SO₂ and PM): [T1]

Furnace #1	12.63
Furnace #2	10.22
Furnace #3	9.86

ii. Compliance Method (CO Requirements)

Monitoring

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- A. Pursuant to Construction Permit 12100052, compliance with annual limits shall be determined from a running total of 12 months of data. Compliance shall be determined considering all emissions, including emissions during bypass of the control system. [T1]

Recordkeeping

- B. Pursuant to Construction Permit 12100052, the Permittee shall keep the records of CO emissions with supporting documentation and calculations.

h. i. Nitrogen Oxide Requirements (NO_x)

- A. Pursuant to Construction Permit 12100052, the Permittee shall comply with interim standard and shall not exceed the following annual emission limits before operation of a control device(s) starts: [T1]

Furnace	NO _x Emissions, ton/yr*	NO _x Emission Factor, lb/ton glass produced
#2	316.8	6.2
#3	305.5	6.2

* On the calendar year basis

- B. Pursuant to Construction Permit 12100052, after installation of a control device for NO_x emissions, stack gases from the furnaces shall be vented through the NO_x emissions control device (with exception of the initial furnace startup, malfunction of control device or during maintenance of control device).
- C. Pursuant to Construction Permit 12100052, the Permittee shall comply with a 30-day rolling average limit for one furnace or averaging all furnaces no later than December 31, 2014 and shall not emit more than 1.3 pounds of NO_x per ton of glass produced as measured using a NO_x CEMS except during abnormally low production rate days, control device startup, malfunction or maintenance of the control device.
- D. Pursuant to Construction Permit 12100052, annual NO_x emissions shall not exceed the following limits (ton/year) after December 31, 2014, or after installation of required controls (for NO_x, SO₂ and PM): [T1]

Furnace #1	82.09
Furnace #2	66.43
Furnace #3	64.06

- E. See Section 8.2 of this permit for the state only requirements applicable to glass melting furnaces under 35 IAC Part 217, Subpart G.

ii. Compliance Method (NO_x Requirements)

Monitoring

- A. Pursuant to Construction Permit 12100052, compliance with annual limits shall be determined from a running total of 12 months of data. Compliance shall be determined considering all emissions, including emissions during bypass of the control system. [T1]
- B. Pursuant to Construction Permit 12100052, compliance with the annual ton per year interim limit shall be calculated in accordance with the equation established by Construction Permit 12100052.
- C. See Condition 4.1(2)(n) for more requirements related to CEMS.

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Recordkeeping

- D. Pursuant to Construction Permit 12100052, for any operating day that the Permittee is excluding emissions from the 30-day rolling average, the Permittee shall record the date, the exception (abnormally low production rate day, furnace startup, control device startup, malfunction, or maintenance) under which it is excluded, a calculation of the applicable limit (pounds per day) according to the equation, and the recorded emissions according to the CEMS (pounds per day). For any operating day excluded for maintenance, the Permittee shall record the total number of hours during which maintenance occurred.
- E. Pursuant to Construction Permit 12100052, the Permittee shall keep the following records during applicable furnace startup period phases:
 - I. For the initial heating phase: total natural gas usage in that furnace (in million standard cubic feet).
 - II. For the refractory soak and seal phase:
 - 1. Total natural gas usage in that furnace (in million standard cubic feet);
 - 2. Excess oxygen percentage in the furnace exhaust flue (as determined by handheld monitor once per shift);
 - 3. Hot spot temperature (measured once per shift); and
 - 4. A certified statement asserting whether thermal blankets or similar techniques were used during this period.
 - III. For the furnace stabilization phase:
 - 1. Total natural gas usage in that furnace (in million standard cubic feet);
 - 2. Excess oxygen percentage in the furnace exhaust flue (as determined by handheld monitor once per shift); and
 - 3. Average hot spot temperature (measured once per shift).
- F. Pursuant to Construction Permit 12100052, the Permittee shall keep the records of NO_x emissions with supporting documentation and calculations.

i. i. Lead (Pb)

- A. Pursuant to Construction Permit 12100052, annual lead emissions shall not exceed the following limits (ton/year) after December 31, 2014, after installation of required controls (for NO_x, SO₂ and PM): [T1]

Furnace #1	0.13
Furnace #2	0.11
Furnace #3	0.10

ii. Compliance Method (Lead Requirements)

Monitoring

- A. Pursuant to Construction Permit 12100052, compliance with annual limits shall be determined from a running total of 12 months of data. Compliance

shall be determined considering all emissions, including emissions during bypass of the control system. [T1]

Recordkeeping

B. Pursuant to Construction Permit 12100052, the Permittee shall keep the records of lead emissions with supporting documentation and calculations.

j. i. **Sulfuric Acid (H₂SO₄)**

A. Pursuant to Construction Permit 12100052, Sulfuric Acid Mist emissions shall not exceed 1.0 pounds per ton of glass produced. [T1]

B. Pursuant to Construction Permit 12100052, annual H₂SO₄ emissions shall not exceed the following limits (ton/year) after December 31, 2014, after installation of required controls (for NO_x, SO₂ and PM): [T1]

Furnace #1	6.31
Furnace #2	5.11
Furnace #3	4.93

ii. Compliance Method (H₂SO₄)

Monitoring

A. Pursuant to Construction Permit 12100052, compliance with annual limits shall be determined from a running total of 12 months of data. Compliance shall be determined considering all emissions, including emissions during bypass of the control system. [T1]

Testing

B. Pursuant to Construction Permit 12100052 and Section 39.5(7)(a) of the Act, the Permittee shall test sulfuric acid emissions on all glass melting furnaces by using Conditional Test Method 13A or B once, within 48 months after issuance of this permit.

Recordkeeping

C. Pursuant to Construction Permit 12100052, the Permittee shall keep the records of H₂SO₄ emissions with supporting documentation and calculations.

k. i. **Greenhouse Gases (GHG)**

A. Pursuant to Construction Permit 12100052, annual CO₂ emissions shall not exceed the following limits (ton/year) after December 31, 2014, after installation of required controls (for NO_x, SO₂ and PM): [T1]

Furnaces #1-3	89,467
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ii. Compliance Method (GHG Requirements)

Monitoring

A. Pursuant to Construction Permit 12100052, compliance with annual limits shall be determined from a running total of 12 months of data. Compliance shall be determined considering all emissions, including emissions during bypass of the control system. [T1]

Recordkeeping

- B. Pursuant to Construction Permit 12100052, the Permittee shall keep the records of GHG emissions with supporting documentation and calculations.

1. i. Operational and Production Requirements

- A. Pursuant to Construction Permit 12100052, glass production of furnaces shall not exceed the following limits:

Furnace	Interim Production Limit*		Final Production Limit**	
	Tons/Mo	Tons/Yr	Tons/Mo	Tons/Yr
Furnace #1	13,140	78,840	21,048	126,290
Furnace #2	11,790	70,745	17,035	102,200
Furnace #3	12,870	77,205	16,425	98,550

* The "interim production limits" apply between initial startup of the altered furnace and startup of the new control system.

** The "final production limits" apply after initial startup of the control system.

ii. Compliance Method (Operational and Production Requirements)

Monitoring

- A. Pursuant to Construction Permit 12100052, compliance with the annual limits shall be determined from a running total of 12 months of data.

Recordkeeping

- B. Pursuant to Construction Permit 12100052, the Permittee shall keep the records of glass production for each furnace (tons/mo and tons/yr).

m. i. Work Practice and Control Requirements

- A. Bypass of Control System (Catalyst Embedded Ceramic Filter System with Reagent Injection). Pursuant to Construction Permit 12100052, no later than December 31, 2014, the Permittee shall operate the glass melting furnaces passing all stack gases through the control system, except during periods of furnace startup, control device startup, malfunction, and maintenance of the control system.

- B. Pursuant to Construction Permit 12100052, no later than the first operating day after December 31, 2014, the Permittee shall commence operation of the control system to control NO_x emissions from each of the furnaces as follows:

- I. The control system shall be designed for a removal efficiency of at least 90 percent; and

- II. When the control system is operating, the Permittee shall continuously operate the control system according to the vendor recommendations in order to minimize emissions to the extent practicable taking into consideration ammonia slip.

ii. Compliance Method (Work Practice and Control Requirements)

Monitoring

- A. Maintenance.

I. Pursuant to Construction Permit 12100052, scheduled or preventative Furnace Maintenance, including checker raking and burning, shall not exceed ninety-six (96) operating hours annually per furnace and shall be conducted only when any downstream control devices required by this permit is operating.

B. Control system scheduled or preventative maintenance

Pursuant to Construction Permit 12100052, scheduled or preventative maintenance of the emission control system shall occur when the furnace(s) connected to the control system is not operating. However, for any calendar year which is a continuous operating year, scheduled or preventative maintenance may be conducted while the furnace(s) are operating. During these continuous operating years, maintenance lasting greater than twenty-four consecutive hours shall occur only during abnormally low production rate days. Control system maintenance must be done in compliance with the following:

I. Bypass for the purpose of preventative maintenance of the control system shall not exceed 144 hours annually in any calendar year*.

* Because the control system is an integrated system and individual components of the control system cannot be bypassed, only a single 144-hour aggregate bypass limit is allowed per calendar year.

C. Pursuant to Construction Permit 12100052, the Permittee shall equip, operate, and maintain the control system with instrumentation to measure relevant operating parameters to enable effective control of SO₂ emissions, which may include parameters such as reagent injection rate.

D. Pursuant to Construction Permit 12100052, the Permittee shall equip, operate, and maintain the control system with instrumentation to measure relevant operating parameters to enable effective control of NO_x emissions, which may include parameters such as reagent injection rate and flue gas temperature at the inlet of the catalyst embedded filters.

Recordkeeping

E. Pursuant to Construction Permit 12100052, the Permittee shall maintain the following records for the control system:

I. A file containing the manufacturer/vendor or source specific operating and maintenance procedures.

II. An operating log or other records that identify periods when the control system is not in service.

III. A maintenance or repair log for the control system, including the date and nature of maintenance and repair activities performed.

IV. 1. Usage of dry scrubbing reagent on a monthly basis.

2. Usage of NO_x reduction reagent on a monthly basis.

V. A file containing the design NO_x emission rates of the affected control system with supporting documentation, and manufacturer/vendor or source specific operating and maintenance procedures, including the catalyst management plan.

VI. Amount of dust collected on a monthly basis

n. i. CEMS Requirements

- A. Pursuant to Construction Permit 12100052, by no later than December 31, 2014, the Permittee shall install, calibrate, certify, maintain, and operate NO_x and SO₂ CEMS. The CEMS certification cannot occur during periods of abnormally low production rate days, furnace startup, control device startup, malfunction, maintenance, or color transition. The Permittee shall commence a new CEMS certification on a particular furnace on the first operating day after each CEMS certification event concludes on that furnace.
- B. Pursuant to Construction Permit 12100052, the NO_x and SO₂ CEMS shall monitor continuously and record the hourly NO_x and SO₂ emission concentration (parts per million) during each operating day from each furnace (or furnaces where more than one furnace subject to the same emission limit is routed through a common exhaust stack). The CEMS shall calculate and record in units of parts per million of NO_x and SO₂ emitted.
- C. Pursuant to Construction Permit 12100052, the CEMS shall be installed, calibrated, certified, maintained, and operated in accordance with 40 CFR 60.13, 40 CFR 60 Appendix B (Performance Specification 2) and 40 CFR 60 Appendix F (Quality Assurance Procedures).
- D. Pursuant to Construction Permit 12100052, if the use of CEMS is required to determine an emission rate (pound per ton or ton per year), then Permittee is required to either:
- I. Follow requirements set forth above for the CEMS and then use an EPA approved method for calculating flow. In conjunction with the EPA approved flow method calculation, the data acquisition and handling system for the CEMS shall convert the ppm values into pound per hour values where the limit is expressed in pounds of pollutant per ton of glass produced. At the end of each operating day, the data acquisition and handling system shall divide the total daily emissions in pounds per day for valid CEMS hourly data by the total tons of glass produced during the operating day (reduced proportionally based on the valid CEMS data hours) to describe the pound per ton emission rate for the operating day. This number shall be recorded in units of pounds of pollutant per ton of glass produced; or
- II. Install, calibrate, certify, maintain, and operate NO_x and SO₂ CERMS as follows:
1. The CERMS shall be installed, calibrated, certified, maintained, and operated in accordance with 40 CFR 60.13, 40 CFR 60 Appendix B (Performance Specification 6), and 40 CFR 60 Appendix F (Quality Assurance Procedures);
 2. The Permittee shall comply with all monitoring, recordkeeping and reporting requirements in 40 CFR 60.13 and 40 CFR 60 Appendix B (Performance Specification 6); and
 3. In conjunction with the flow rate monitoring device, the data acquisition and handling system for the CEMS shall convert the ppm values into pound per hour values where the limit is expressed in pounds of pollutant per ton of glass produced. At the end of each operating day, the data acquisition and handling system shall divide the total daily emissions in pounds per day for valid CEMS hourly data by the total tons of

glass produced during the operating day (reduced proportionally based on the valid CEMS data hours) to describe the pound per ton emission rate for the operating day.

ii. Compliance Method (CEMS Requirements)

- A. Pursuant to Construction Permit 12100052, the Permittee shall comply with all recordkeeping requirements in 40 CFR 60.13 and 40 CFR 60 Appendix B (Performance Specification 6).
- B. Pursuant to Construction Permit 12100052, the Permittee shall keep the CEMS records related to the monitored emissions in units of pounds of pollutant per ton of glass produced for the applicable Day.

3. Non-Applicability Determinations

- a. The glass melting furnaces are not subject to 35 IAC 218.301 and 218.302, because these emission units are not using any organic materials, as defined in 35 IAC 211.4250(b).
- b. The glass melting furnaces are not subject to 35 IAC 212.324(b), pursuant to 35 IAC 212.324(a)(3)(B).
- c. The glass melting furnaces are not subject to 35 IAC 214.301, pursuant to 35 IAC 214.401(a).
- d. The glass melting furnaces are not subject to 35 IAC 214.303, because no sulfuric acid is used in the glass melting furnaces.
- e. The glass melting furnaces are not subject to National Emission Standard for Inorganic Arsenic Emissions (NESHAP) for Glass Manufacturing Plants, 40 CFR 61 Subpart N, because the furnaces do not use commercial arsenic as a raw material.
- f. The glass melting furnaces are not subject to National Emission Standard for Hazardous Air Pollutants for Glass Manufacturing Area Sources, 40 CFR 63 Subpart SSSSSS, because the furnaces do not use raw materials containing one or more glass manufacturing metal HAP, as defined in 40 CFR 63.11459.
- g. The glass melting furnaces are not subject to Standards of Performance for Glass Manufacturing Plants, 40 CFR 60 Subpart CC, before 180 days after installation of the required air pollution control devices, or before December 31, 2014, pursuant to paragraph 9.1.iv of the Consent Decree.
- h. The glass melting furnaces are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the proposed control devices for NO_x and SO₂ emissions shall be equipped with CEMS and emissions, as a result, will be subject to a continuous compliance determination method, pursuant to 40 CFR 64.2(b)(1)(vi).
- i. The glass melting furnaces are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because these furnaces do not have potential pre-control device emissions of PM that equals or exceeds major source threshold levels.

4. Other Requirements

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

5. Reporting Requirements

Saint-Gobain Containers, Inc.
I.D. No.: 031069AAI
Permit No.: 95090177

Date Received: 09/23/2005
Date Issued: TBD

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
 - I. Requirements in Conditions 4.3(2)(a)(i), 4.3(2)(b)(i), 4.3(2)(c)(i), 4.3(2)(d)(i), 4.3(2)(e)(i), 4.3(2)(f)(i), 4.3(2)(g)(i), 4.3(2)(h)(i), 4.3(2)(i)(i), 4.3(2)(j)(i), and 4.3(2)(k)(i).
 - II. Requirements in Conditions 4.3(2)(l)(i), 4.3(2)(m)(i) and 4.3(2)(n)(i).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
 - A. Date and time of the deviation.
 - B. Emission unit(s) and/or operation involved.
 - C. The duration of the event.
 - D. Probable cause of the deviation.
 - E. Corrective actions or preventative measures taken.

b. Federal Reporting

- i. The Permittee shall comply with the applicable reporting requirements established in the Consent Decree, paragraphs 35 through 40, and Construction Permit 12100052.

c. State Reporting

- i. See Section 8.2 of this permit for state only requirements applicable to the glass melting furnaces.

4.4 Distributors and Forehearths

1. Emission Units and Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Distributor/Forehearths #1	PM, PM _{2.5} , PM ₁₀ , NO _x , CO, SO ₂ , VOM	Pre-1979	2011	None	None
Distributor/Forehearths #2	PM, PM _{2.5} , PM ₁₀ , NO _x , CO, SO ₂ , VOM	Pre-1979	2013	None	None
Distributor/Forehearths #3	PM, PM _{2.5} , PM ₁₀ , NO _x , CO, SO ₂ , VOM	Pre-1979	2000	None	None

2. Applicable Requirements

For the emission units in Condition 4.4(1) above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7) (a), 39.5(7) (b), and 39.5(7) (d) of the Act.

a. i. Opacity Requirements

A. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.

ii. Compliance Method (Opacity Requirements)

Monitoring

A. Pursuant to Sections 39.5(7) (b) and (d) of the Act, the Permittee shall perform opacity observations of uncaptured emissions from the draft opening at the top of the roof building housing distributors/forehearths in accordance with Method 9 on at least an annual basis. If visible emissions greater than 30% opacity are observed, the Permittee shall take corrective action within 24 hours of such observation. Corrective action may include, but are not limited to, shut down of the operation, maintenance and repair, and/or adjustment of fuel usage. If corrective action was taken, the Permittee shall perform a follow up opacity observation in accordance with Method 9.

Recordkeeping

B. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep records for each observation performed. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, the findings of the observation including the presence of any visible emissions, and a description of any corrective action taken including if the corrective action took place within 24 hours of the observation.

C. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep records for all Method 9 and Method 22 opacity measurements and visible emissions observations made in accordance with Condition 4.4.2(a) (ii) (A) above.

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b. i. Particulate Matter Requirements (PM/PM₁₀/PM_{2.5})

- A. Pursuant to 35 IAC 212.321(a), no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit for which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, which, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c) (See Condition 7.2).
- B. Pursuant to 35 IAC 212.324(b), no person shall cause or allow the PM₁₀ emissions into the atmosphere to exceed 68.7 mg/scm (0.03 gr/scf) during any one hour period. However, pursuant to 35 IAC 212.324(d), this regulatory standard shall not apply to those emission units with no visible emissions other than fugitive particulate matter.

Note: This standard currently does not apply to Distributors/Forehearths which are not vented through stacks.

- C. Pursuant to Construction Permit #12100052, PM emissions (including PM₁₀ and PM_{2.5} with identical values) shall not exceed the following limits: [T1]

Distributors/Forehearths	PM (ton/yr)	PM ₁₀ (ton/yr)	PM _{2.5} (ton/yr)
#1	0.49	0.49	0.49
#2	0.38	0.38	0.38
#3	0.36	0.36	0.36

ii. Compliance Method (PM Requirements)

Monitoring

- A. Pursuant to Construction Permit #12100052, compliance with the annual limits shall be determined from a running total of 12 months of data.

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of PM emissions from each distributor/forehearth, with supporting documentation and calculations.

c. i. Sulfur Dioxide Requirements (SO₂)

- A. Pursuant to Construction Permit #12100052, SO₂ emissions shall not exceed the following limits: [T1]

Distributors/Forehearths	SO ₂ (ton/yr)
#1	0.04
#2	0.03
#3	0.03

- B. Pursuant to 35 IAC 214.301, no person shall cause or allow the emission of sulfur dioxide into the atmosphere to exceed 2,000 ppm.

ii. Compliance Method (SO₂ Requirements)

Monitoring

- A. Pursuant to Construction Permit #12100052, compliance with the annual limits shall be determined from a running total of 12 months of data.

- B. Pursuant to Section 39.5(7)(a) of the Act, for the units fired with natural gas, the Permittee shall use pipeline quality natural gas with the sulfur content not exceeding 2000 ppm.

Recordkeeping

- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep the following records related to pipeline quality natural gas:
 - I. Annual certification that only pipeline quality natural gas is used.
- D. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of SO₂ emissions from each distributor/forehearth, with supporting documentation and calculations.

d. i. Nitrogen Oxide Requirements (NO_x)

- A. Pursuant to Construction Permit #12100052, NO_x emissions shall not exceed the following limits: [T1]

Distributors/Forehearths	NO _x (ton/yr)
#1	6.42
#2	4.97
#3	4.79

ii. Compliance Method (NO_x Requirements)

Monitoring

- A. Pursuant to Construction Permit #12100052, compliance with the annual limits shall be determined from a running total of 12 months of data.

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of NO_x emissions from each distributor/forehearth, with supporting documentation and calculations.

e. i. Carbon Monoxide Requirements (CO)

- A. Pursuant to Construction Permit #12100052, CO emissions shall not exceed the following limits: [T1]

Distributors/Forehearths	CO (ton/yr)
#1	5.40
#2	4.18
#3	4.03

ii. Compliance Method (NO_x Requirements)

Monitoring

- A. Pursuant to Construction Permit #12100052, compliance with the annual limits shall be determined from a running total of 12 months of data.

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of CO emissions from each distributor/forehearth, with supporting documentation and calculations.

f. i. **Volatile Organic Material Requirements (VOM)**

A. Pursuant to Construction Permit #12100052, VOM emissions shall not exceed the following limits: [T1]

Distributors/Forehearths	VOM (ton/yr)
#1	0.35
#2	0.27
#3	0.26

ii. **Compliance Method (VOM Requirements)**

Monitoring

A. Pursuant to Construction Permit #12100052, compliance with the annual limits shall be determined from a running total of 12 months of data.

Recordkeeping

B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of VOM emissions from each distributor/forehearth, with supporting documentation and calculations.

3. Non-Applicability Determinations

- a. Distributors/forehearths are not subject to 35 IAC 218.301 and 218.302, because these emission units do not use any organic materials, as defined in 35 IAC 211.4250(b).
- b. Distributors/forehearths are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources because these emission units do not have any air pollution control devices used to comply with any applicable emission limit or standard.

4. Other Requirements

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. **Prompt Reporting**

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
 - I. Requirements in Conditions 4.4(2)(a), 4.4(2)(b), 4.4(2)(c), 4.4(2)(d), 4.4(2)(e), and 4.4(2)(f).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).

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iii. The deviation reports shall contain at a minimum the following information:

- A. Date and time of the deviation.
- B. Emission unit(s) and/or operation involved.
- C. The duration of the event.
- D. Probable cause of the deviation.
- E. Corrective actions or preventative measures taken.

4.5 Lehrs

1. Emission Units and Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Lehrs #1, #2, #3	PM, PM _{2.5} , PM ₁₀ , NO _x , CO, SO ₂ , VOM	1972	2013	None	None

2. Applicable Requirements

For the emission units in Condition 4.5(1) above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

a. i. Opacity Requirements

A. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.

ii. Compliance Method (Opacity Requirements)

Monitoring

A. Pursuant to Sections 39.5(7)(b) and (d) of the Act, the Permittee shall perform opacity observations of uncaptured emissions from the draft opening at the top of the roof building housing lehrs in accordance with Method 9 on at least an annual basis. If visible emissions greater than 30% are observed, the Permittee shall take corrective action within 24 hours of such observation. Corrective action may include, but is not limited to, shut down of the operation, maintenance and repair, and/or adjustment of fuel usage. If corrective action was taken, the Permittee shall perform a follow up opacity observation in accordance with Method 9.

Recordkeeping

B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for each observation performed. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, the findings of the observation including the presence of any visible emissions, and a description of any corrective action taken including if the corrective action took place within 24 hours of the observation.

C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for all Method 9 and Method 22 opacity measurements and visible emissions observations made in accordance with Condition 4.4.2(a)(ii)(A) above.

b. i. Particulate Matter Requirements (PM)

A. Pursuant to 35 IAC 212.321(a), no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit for which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972,

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which, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c) (See Condition 7.2).

- B. Pursuant to 35 IAC 212.324(b), no person shall cause or allow the PM₁₀ emissions into the atmosphere to exceed 68.7 mg/scm (0.03 gr/scf) during any one hour period. However, pursuant to 35 IAC 212.324(d), this regulatory standard shall not apply to those emission units with no visible emissions other than fugitive particulate matter.

Note: This standard currently does not apply to Lehrs which are not vented through stacks.

- C. Pursuant to Construction Permit #12100052, total PM emissions (including PM₁₀ and PM_{2.5} with identical values) shall not exceed the following limits: [T1]

Lehrs	PM (ton/yr)	PM ₁₀ (ton/yr)	PM _{2.5} (ton/yr)
#1	0.05	0.05	0.05
#2	0.05	0.05	0.05
#3	0.05	0.05	0.05

ii. Compliance Method (PM Requirements)

Monitoring

- A. Pursuant to Construction Permit #12100052, compliance with the annual limits shall be determined from a running total of 12 months of data.

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of PM emissions from each lehr, with supporting documentation and calculations.

c. i. Sulfur Dioxide Requirements (SO₂)

- A. Pursuant to Construction Permit #12100052, SO₂ emissions shall not exceed the following limits: [T1]

Lehrs	SO ₂ (ton/yr)
#1	0.01
#2	0.01
#3	0.01

- B. Pursuant to 35 IAC 214.301, no person shall cause or allow the emission of sulfur dioxide into the atmosphere to exceed 2,000 ppm.

ii. Compliance Method (SO₂ Requirements)

Monitoring

- A. Pursuant to Construction Permit #12100052, compliance with the annual limits shall be determined from a running total of 12 months of data.

- B. Pursuant to Section 39.5(7)(a) of the Act, for the units fired with natural gas, the Permittee shall use pipeline quality natural gas with the sulfur content not exceeding 2000 ppm.

Recordkeeping

- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep the following records related to pipeline quality natural gas:

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I. Annual certification that only pipeline quality natural gas is used.

D. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of SO₂ emissions from each lehr, with supporting documentation and calculations.

d. i. Nitrogen Oxide Requirements (NO_x)

A. Pursuant to Construction Permit #12100052, NO_x emissions shall not exceed the following limits: [T1]

Lehrs	NO _x (ton/yr)
#1	0.68
#2	0.63
#3	0.69

ii. Compliance Method (NO_x Requirements)

Monitoring

A. Pursuant to Construction Permit #12100052, compliance with the annual limits shall be determined from a running total of 12 months of data.

Recordkeeping

B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of NO_x emissions from each lehr, with supporting documentation and calculations.

e. i. Carbon Monoxide Requirements (CO)

A. Pursuant to Construction Permit #12100052, CO emissions shall not exceed the following limits: [T1]

Lehrs	CO (ton/yr)
#1	0.57
#2	0.53
#3	0.58

ii. Compliance Method (CO Requirements)

Monitoring

A. Pursuant to Construction Permit #12100052, compliance with the annual limits shall be determined from a running total of 12 months of data.

Recordkeeping

B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of CO emissions from each lehr, with supporting documentation and calculations.

f. i. Volatile Organic Material Requirements (VOM)

A. Pursuant to Construction Permit #12100052, VOM emissions shall not exceed the following limits: [T1]

Lehrs	CO (ton/yr)
#1	0.04
#2	0.03
#3	0.04

ii. Compliance Method (VOM Requirements)

Monitoring

- A. Pursuant to Construction Permit #12100052, compliance with the annual limits shall be determined from a running total of 12 months of data.

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of VOM emissions from each lehr, with supporting documentation and calculations.

3. Non-Applicability Determinations

- a. Lehrs are not subject to 35 IAC 218.301 and 218.302, because these emission units do not use any organic materials, as defined in 35 IAC 211.4250(b).
- b. Lehrs are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources because these emission units do not have any air pollution control devices used to comply with any applicable emission limit or standard.

4. Other Requirements

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
- I. Requirements in Conditions 4.5(2)(a), 4.5(2)(b), 4.5(2)(c), 4.5(2)(d), 4.5(2)(e), and 4.5(2)(f).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
- A. Date and time of the deviation.
- B. Emission unit(s) and/or operation involved.
- C. The duration of the event.
- D. Probable cause of the deviation.
- E. Corrective actions or preventative measures taken.

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4.6 Glass Forming Machines

1. Emission Units and Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Forming Machines #1, #2, #3	PM, PM ₁₀ , PM _{2.5}	1955	2012	None	None

2. Applicable Requirements

For the emission units in Condition 4.6(1) above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

a. i. Opacity Requirements

A. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.

ii. Compliance Method (Opacity Requirements)

Monitoring

A. Pursuant to Sections 39.5(7)(b) and (d) of the Act, the Permittee shall perform opacity observations of uncaptured emissions from the draft opening at the top of the roof building housing forming machines in accordance with Method 9 on at least an annual basis. If visible emissions greater than 30% opacity are observed, the Permittee shall take corrective action within 24 hours of such observation. Corrective action may include, but is not limited to, shut down of the operation, maintenance and repair, and/or adjustment of fuel usage. If corrective action was taken, the Permittee shall perform a follow up opacity observation in accordance with Method 9.

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for each observation performed. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, the findings of the observation including the presence of any visible emissions, and a description of any corrective action taken including if the corrective action took place within 24 hours of the observation.
- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for all Method 9 and Method 22 opacity measurements and visible emissions observations made in accordance with Condition 4.5.2(a)(ii)(A) above.

b. i. Particulate Matter Requirements (PM)

A. Pursuant to 35 IAC 212.321(a), no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit for which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, which, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c) (See Condition 7.2).

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- B. Pursuant to 35 IAC 212.324(b), no person shall cause or allow the PM₁₀ emissions into the atmosphere to exceed 68.7 mg/scm (0.03 gr/scf) during any one hour period. However, pursuant to 35 IAC 212.324(d), this regulatory standard shall not apply to those emission units with no visible emissions other than fugitive particulate matter.

Note: This standard currently does not apply to Glass Forming Machines which are not vented through stacks.

- C. Pursuant to Construction Permit #12100052, total PM emissions (including PM₁₀ and PM_{2.5} with identical values) shall not exceed the following limits: [T1]

Forming Machines	PM (ton/yr)	PM ₁₀ (ton/yr)	PM _{2.5} (ton/yr)
#1	6.71	6.71	6.71
#2	5.53	5.53	5.53
#3	5.35	5.35	5.35

ii. Compliance Method (PM Requirements)

Monitoring

- A. Pursuant to Construction Permit #12100052, compliance with the annual limits shall be determined from a running total of 12 months of data.

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of PM emissions from each forming machine, with supporting documentation and calculations.

3. Non-Applicability Determinations

- a. Forming machines are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources because these emission units do not have any air pollution control devices used to comply with any applicable emission limit or standard.

4. Other Requirements

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:

I. Requirements in Conditions 4.6(2)(a) and 4.6(2)(b).

- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).

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- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
 - A. Date and time of the deviation.
 - B. Emission unit(s) and/or operation involved.
 - C. The duration of the event.
 - D. Probable cause of the deviation.
 - E. Corrective actions or preventative measures taken.

4.7 Hot End Surface Treatment Units

1. Emission Units and Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Hot End Surface Treatment Units #1, #2, #3	PM	1955	None	None	None

2. Applicable Requirements

For the emission units in Condition 4.7(1) above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7) (a), 39.5(7) (b), and 39.5(7) (d) of the Act.

a. i. Opacity Requirements

A. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.

ii. Compliance Method (Opacity Requirements)

Monitoring

A. Pursuant to Sections 39.5(7)(b) and (d) of the Act, the Permittee shall perform opacity observations of uncaptured emissions from the draft opening at the top of the roof building housing Hot End Surface Treatment Units in accordance with Method 9 on at least annual basis. If visible emissions greater than 30% are observed, the Permittee shall take corrective action within 24 hours of such observation. Corrective action may include, but is not limited to, shut down of the operation, maintenance and repair, and/or adjustment of fuel usage. If corrective action was taken, the Permittee shall perform a follow up opacity observation in accordance with Method 9.

Recordkeeping

B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for each observation performed. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, the findings of the observation including the presence of any visible emissions, and a description of any corrective action taken including if the corrective action took place within 24 hours of the observation.

C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for all Method 9 and Method 22 opacity measurements and visible emissions observations made in accordance with Condition 4.7.2(a)(ii)(A) above.

b. i. Particulate Matter Requirements (PM/PM₁₀/PM_{2.5})

A. Pursuant to 35 IAC 212.322(a), no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit for which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced prior to April 14, 1972,

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which, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.322(c) (See Condition 7.2).

- B. Pursuant to 35 IAC 212.324(b), no person shall cause or allow the PM10 emissions into the atmosphere to exceed 68.7 mg/scm (0.03 gr/scf) during any one hour period. However, pursuant to 35 IAC 212.324(d), this regulatory standard shall not apply to those emission units with no visible emissions other than fugitive particulate matter.

Note: This standard currently does not apply to Hot End Surface Treatment Units which are not vented through stacks.

- C. Pursuant to Construction Permit #12100052, total PM emissions (including PM₁₀ and PM_{2.5} with identical values) shall not exceed the following limits: [T1]

Hot End Surface Treatment Units	PM (ton/yr)	PM ₁₀ (ton/yr)	PM _{2.5} (ton/yr)
#1	1.44	1.44	1.44
#2	1.19	1.19	1.19
#3	1.14	1.14	1.14

ii. Compliance Method (PM Requirements)

Monitoring

- A. Pursuant to Construction Permit #12100052, compliance with the annual limits shall be determined from a running total of 12 months of data.

Recordkeeping

- D. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of PM emissions from each hot end treatment unit, with supporting documentation and calculations.

3. Non-Applicability Determinations

- a. Surface treatment units are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources because these emission units do not have any air pollution control devices used to comply with any applicable emission limit or standard.

4. Other Requirements

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
 - I. Requirements in Conditions 4.7(2)(a) and 4.7(2)(b).

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4.7 - Hot End Surface Treatment Units

- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
 - A. Date and time of the deviation.
 - B. Emission unit(s) and/or operation involved.
 - C. The duration of the event.
 - D. Probable cause of the deviation.
 - E. Corrective actions or preventative measures taken.

Section 5 - Additional Title I Requirements

This Section is reserved for Title I requirements not specified in Sections 3 or 4. As of the date of issuance of this permit, there are no Title I requirements that need to be separately addressed in this Section.

Section 6 - Insignificant Activities Requirements

1. Insignificant Activities Subject to Specific Regulations

Pursuant to 35 IAC 201.210 and 201.211, the following activities at the source constitute insignificant activities. Pursuant to Sections 9.1(d) and 39.5(6)(a) of the Act, the insignificant activities are subject to specific standards promulgated pursuant to Sections 111, 112, 165, or 173 of the Clean Air Act. The Permittee shall comply with the following applicable requirements:

<i>Insignificant Activity</i>	<i>Number of Units</i>	<i>Insignificant Activity Category</i>
Emergency Engines between 112 KW and 1,118 KW (150 and 1,500 HP)	5	35 IAC 201.210(a)(16)

a. Applicable Requirements

Pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act, the Permittee shall comply with the following applicable requirements in addition to the applicable requirements in Condition 6.4:

i. New Source Performance Standard Requirements (NSPS)

- A. Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60 Subpart IIII)
 - I. Pursuant to 40 CFR 60.4205(b) and 60.4202(a)(2), the engines are subject to the emission limitations of 40 CFR 89.112 and 89.113.
 - II. The engines shall meet the applicable general provisions of 40 CFR 60 Subpart A. See Condition 7.4(a).
 - III. The engines shall comply with the applicable emission limitations and operating limitations, fuel requirements, general compliance requirements, testing and initial compliance requirements, continuous compliance requirements, notifications, reports, and records and other requirements and information of 40 CFR 60 Subpart IIII and 40 CFR 89 Subpart B.

ii. National Emission Standards for Hazardous Air Pollutants (NESHAP)

- A. Standards of Performance for Stationary Reciprocating Internal Combustion Engines (40 CFR 60 Subpart ZZZZ)
 - I. Pursuant to 40 CFR 63.6590(a)(1)(iii) and 40 CFR 63.6590(b)(3)(viii), the existing engines do not have to meet the requirements of Subpart ZZZZ and Subpart A including initial notification requirements.
 - II. Pursuant to 40 CFR 63.6590(a)(1)(iii) and 40 CFR 60.6590(c), new engines must meet the requirements of subpart ZZZZ 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.

b. Title I Requirements (Construction Permit 12100052) [T1]

- i. A. Pursuant to Construction Permit #12100052, emissions from the emergency generator manufactured by Onsite Energy and rated at 500 KW, shall not exceed the following limits: [T1]

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Emissions, tons/yr				
NO _x	CO	PM (PM ₁₀ , PM _{2.5})	SO ₂	VOM
2.65	1.45	0.08	0.01	0.54

ii. Compliance Method

Monitoring

- A. Pursuant to Construction Permit #12100052, compliance with the annual limits shall be determined from a running total of 12 months of data.

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of NO_x, CO, PM, SO₂, and VOM emissions, with supporting documentation and calculations.

2. Insignificant Activities in 35 IAC 201.210(a)

In addition to any insignificant activities identified in Condition 6.1, the following additional activities at the source constitute insignificant activities pursuant to 35 IAC 201.210 and 201.211:

<i>Insignificant Activity</i>	<i>Number of Units</i>	<i>Insignificant Activity Category</i>
Brazing/Welding	13	35 IAC 201.210(a) (3)
Glass Bead Blaster	3	35 IAC 201.210(a) (3)
Portable Welders	2	35 IAC 201.210(a) (3)
Cullet Silos	2	35 IAC 201.210(a) (3)
Cullet Crusher	1	35 IAC 201.210(a) (3)
Laser Date Coders	5	35 IAC 201.210(a) (3)
Mold Heater	1	35 IAC 201.210(a) (3)
Mold Shop Air Dust Collector	1	35 IAC 201.210(a) (3)
Maintenance of Batch Handling System	N/A	35 IAC 201.210(a) (3)
Direct combustion units used for comfort heating and fuel combustion emission units as further detailed in 35 IAC 201.210(a) (4).	63	35 IAC 201.210(a) (4)
Equipment used to mix and blend materials at ambient temperatures to make water based adhesives where each material contains less than 5% organic solvent by weight.	1	35 IAC 201.210(a) (9)
Storage tanks < 10,000 gallon with annual throughput < 100,000 gallon (not storing gasoline or any material listed as a HAP).	11	35 IAC 201.210(a) (10)
VideoJet Ink Coders	8	35 IAC 201.210(a) (14)

3. Insignificant Activities in 35 IAC 201.210(b)

Pursuant to 35 IAC 201.210, the source has identified insignificant activities as listed in 35 IAC 201.210(b)(1) through (28) as being present at the source. The source is not required to individually list the activities.

4. Applicable Requirements

Insignificant activities in Conditions 6.1 and 6.2 are subject to the following general regulatory limits notwithstanding status as insignificant activities. The Permittee shall comply with the following requirements, as applicable:

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- a. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122, except as provided in 35 IAC 212.123(b).
- b. Pursuant to 35 IAC 212.321 or 212.322 (see Conditions 7.2(a) and (b)), no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units at a source or premises, exceed the allowable emission rates specified 35 IAC 212.321 or 212.322 and 35 IAC Part 266.
- c. Pursuant to 35 IAC 214.301, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2,000 ppm, except as provided in 35 IAC Part 214.
- d. Pursuant to 35 IAC 218.301, no person shall cause or allow the discharge of more than 8 lbs/hr of organic material into the atmosphere from any emission source, except as provided in 35 IAC 218.302, 218.303, 218.304 and the following exception: If no odor nuisance exists the limitation of 35 IAC 215 Subpart K shall apply only to photochemically reactive material.
- e. Pursuant to 35 IAC 218.122(b), no person shall cause or allow the loading of any organic material into any stationary tank having a storage capacity of greater than 250 gal, unless such tank is equipped with a permanent submerged loading pipe, submerged fill, or an equivalent device approved by the IEPA according to 35 IAC Part 201 or unless such tank is a pressure tank as described in 35 IAC 215.121(a) or is fitted with a recovery system as described in 35 IAC 215.121(b)(2). Exception as provided in 35 IAC 218.122(c): If no odor nuisance exists the limitations of 35 IAC 215.122 shall only apply to the loading of volatile organic liquid with a vapor pressure of 2.5 psia or greater at 70°F.

5. Compliance Method

Pursuant to Section 39.5(7)(b) of the Act, the source shall maintain records of the following items for the insignificant activities in Conditions 6.1 and 6.2:

- a. List of all insignificant activities, including insignificant activities added as specified in Condition 6.6, the categories the insignificant activities fall under, and supporting calculations as needed for any insignificant activities listed in 35 IAC 201.210(a)(1) through (3).
- b. Potential to emit emission calculations before any air pollution control device for any insignificant activities listed in 35 IAC 201.210(a)(1) through (3).

6. Notification Requirements for Insignificant Activities

The source shall notify the IEPA accordingly to the addition of insignificant activities:

a. Notification 7 Days in Advance

- i. Pursuant to 35 IAC 201.212(b), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a)(1) and 201.211 and is not currently identified in Conditions 6.1 or 6.2, a notification to the IEPA Permit Section 7 days in advance of the addition of the insignificant activity is required. Addresses are included in Attachment 3. The notification shall include the following pursuant to 35 IAC 201.211(b):
 - A. A description of the emission unit including the function and expected operating schedule of the unit.

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- B. A description of any air pollution control equipment or control measures associated with the emission unit.
 - C. The emissions of regulated air pollutants in lb/hr and ton/yr.
 - D. The means by which emissions were determined or estimated.
 - E. The estimated number of such emission units at the source.
 - F. Other information upon which the applicant relies to support treatment of such emission unit as an insignificant activity.
- ii. Pursuant to 35 IAC 201.212(b), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a)(2) through 201.210(a)(18) and is not currently identified in Conditions 6.1 or 6.2, a notification to the IEPA Permit Section 7 days in advance of the addition of the insignificant activity is required. Addresses are included in Attachment 3.
 - iii. Pursuant to Sections 39.5(12)(a)(i)(b) and 39.5(12)(b)(iii) of the Act, the permit shield described in Section 39.5(7)(j) of the Act (see Condition 2.7) shall not apply to any addition of an insignificant activity noted above.

b. Notification Required at Renewal

Pursuant to 35 IAC 201.212(a) and 35 IAC 201.146(kkk), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a) and is currently identified in Conditions 6.1 or 6.2, a notification is not required until the renewal of this permit.

c. Notification Not Required

Pursuant to 35 IAC 201.212(c) and 35 IAC 201.146(kkk), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(b) as described in Condition 6.3, a notification is not required.

Section 7 - Other Requirements

1. Testing

- a. Pursuant to Section 39.5(7)(a) of the Act, a written test protocol shall be submitted at least sixty (60) days prior to the actual date of testing, unless it is required otherwise in applicable state or federal statutes. The IEPA may at the discretion of the Compliance Section Manager (or designee) accept a protocol less than 60 days prior to testing provided it does not interfere with the IEPA's ability to review and comment on the protocol and does not deviate from the applicable state or federal statutes. The protocol shall be submitted to the IEPA, Compliance Section and IEPA, Stack Test Specialist for its review. Addresses are included in Attachment 3. This protocol shall describe the specific procedures for testing, including as a minimum:
 - i. The name and identification of the emission unit(s) being tested.
 - ii. Purpose of the test, i.e., permit condition requirement, IEPA or USEPA requesting test.
 - iii. The person(s) who will be performing sampling and analysis and their experience with similar tests.
 - iv. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of maximum emissions and the means by which the operating parameters for the emission unit and any control equipment will be determined.
 - v. The specific determinations of emissions and operation which are intended to be made, including sampling and monitoring locations.
 - vi. The test method(s) that will be used, with the specific analysis method, if the method can be used with different analysis methods. Include if emission tests averaging of 35 IAC 283 will be used.
 - vii. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with detailed justification. This shall be included as a waiver of the test procedures. If a waiver has already been obtained by the IEPA or USEPA, then the waiver shall be submitted.
 - viii. Any proposed use of an alternative test method, with detailed justification. This shall be included as a waiver of the test procedures. If a waiver has already been obtained by the IEPA or USEPA, then the waiver shall be submitted.
 - ix. Sampling of materials, QA/QC procedures, inspections, etc.
- b. The IEPA, Compliance Section shall be notified prior to these tests to enable the IEPA to observe these tests pursuant to Section 39.7(a) of the Act as follows:
 - i. Notification of the expected date of testing shall be submitted in writing a minimum of thirty (30) days prior to the expected test date, unless it is required otherwise in applicable state or federal statutes.
 - ii. Notification of the actual date and expected time of testing shall be submitted in writing a minimum of five (5) working days prior to the actual date of the test. The IEPA may at its discretion of the Compliance Section Manager (or designee) accept notifications with shorter advance notice provided such notifications will not interfere with the IEPA's ability to observe testing.
- c. Copies of the Final Report(s) for these tests shall be submitted to the IEPA, Compliance Section within fourteen (14) days after the test results are compiled and finalized but

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no later than ninety (90) days after completion of the test, unless it is required otherwise in applicable state or federal statutes or the IEPA may at the discretion of the Compliance Section Manager (or designee) an alternative date is agreed upon in advance pursuant to Section 39.7(a) of the Act. The Final Report shall include as a minimum:

- i. General information including emission unit(s) tested.
 - ii. A summary of results.
 - iii. Discussion of conditions during each test run (malfunction/breakdown, startup/shutdown, abnormal processing, etc.).
 - iv. Description of test method(s), including description of sampling points, sampling train, analysis equipment, and test schedule.
 - v. Detailed description of test conditions, including:
 - A. Process information, i.e., mode(s) of operation, process rate, e.g. fuel or raw material consumption.
 - B. Control equipment information, i.e., equipment condition and operating parameters during testing.
 - C. A discussion of any preparatory actions taken, i.e., inspections, maintenance and repair.
 - vi. Data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration.
 - vii. An explanation of any discrepancies among individual tests or anomalous data.
 - viii. Results of the sampling of materials, QA/QC procedures, inspections, etc.
 - ix. Discussion of whether protocol was followed and description of any changes to the protocol if any occurred.
 - x. Demonstration of compliance showing whether test results are in compliance with applicable state or federal statutes.
- d. Copies of all test reports and other test related documentation shall be kept on site as required by Condition 2.5(b) pursuant to Section 39.5(7)(e)(ii) of the Act.

2. PM Process Weight Rate Requirements

a. New Process Emission Units - 35 IAC 212.321

New Process Emission Units For Which Construction or Modification Commenced On or After April 14, 1972. [35 IAC 212.321]

- i. No person shall cause or allow the emission of PM into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of PM from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c). See Condition 7.2(a)(iii) below. [35 IAC 212.321(a)]
- ii. Interpolated and extrapolated values of the data in 35 IAC 212.321(c) shall be determined by using the equation: [35 IAC 212.321(b)]

$$E = A(P)^B$$

Where:

P = Process weight rate (T/hr)
E = Allowable emission rate (lbs/hr)

A. Process weight rates of less than 450 T/hr:

A = 2.54
B = 0.53

B. Process weight rates greater than or equal to 450 T/hr:

A = 24.8
B = 0.16

iii. Limits for New Process Emission Units [35 IAC 212.321(c)]:

<u>P</u> <u>(T/hr)</u>	<u>E</u> <u>(lbs/hr)</u>	<u>P</u> <u>(T/hr)</u>	<u>E</u> <u>(lbs/hr)</u>
0.05	0.55	25.00	14.00
0.10	0.77	30.00	15.60
0.20	1.10	35.00	17.00
0.30	1.35	40.00	18.20
0.40	1.58	45.00	19.20
0.50	1.75	50.00	20.50
0.75	2.40	100.00	29.50
1.00	2.60	150.00	37.00
2.00	3.70	200.00	43.00
3.00	4.60	250.00	48.50
4.00	5.35	300.00	53.00
5.00	6.00	350.00	58.00
10.00	8.70	400.00	62.00
15.00	10.80	450.00	66.00
20.00	12.50	500.00	67.00

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b. Existing Process Emission Units - 35 IAC 212.322

Existing Process Emission Units For Which Construction or Modification Commenced Prior to April 14, 1972. [35 IAC 212.322]

- i. No person shall cause or allow the emission of PM into the atmosphere in any one hour period from any process emission unit for which construction or modification commenced prior to April 14, 1972, which, either alone or in combination with the emission of PM from all other similar process emission units at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.322(c)). See Condition 7.2(b)(iii) below. [35 IAC 212.322(a)]
- ii. Interpolated and extrapolated values of the data in 35 IAC 212.322(c) shall be determined by using the equation: [35 IAC 212.322(b)]

$$E = C + A(P)^B$$

Where:

P = Process weight rate (T/hr)
E = Allowable emission rate (lbs/hr)

A. Process weight rates of less than 450 T/hr:

A = 4.10
B = 0.67
C = 0

B. Process weight rates greater than or equal to 450 T/hr:

A = 55.0
B = 0.11
C = -40.0

iii. Limits for Existing Process Emission Units [35 IAC 212.322(c)]:

<u>P</u> <u>(T/hr)</u>	<u>E</u> <u>(lbs/hr)</u>	<u>P</u> <u>(T/hr)</u>	<u>E</u> <u>(lbs/hr)</u>
0.05	0.55	25.00	35.40
0.10	0.87	30.00	40.00
0.2	1.40	35.00	41.30
0.30	1.83	40.00	42.50
0.40	2.22	45.00	43.60
0.50	2.58	50.00	44.60
0.75	3.38	100.00	51.20
1.00	4.10	150.00	55.40
2.00	6.52	200.00	58.60
3.00	8.56	250.00	61.00
4.00	10.40	300.00	63.10
5.00	12.00	350.00	64.90
10.00	19.20	400.00	66.20
15.00	25.20	450.00	67.70
20.00	30.50	500.00	69.00

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3. Emissions Reduction Market System (ERMS) Requirements

- a. Pursuant to 35 IAC Part 205, ERMS seasonal emissions of VOM during the seasonal allotment period from May 1 through September 30 shall not exceed 15 tons/year, not including VOM emissions from insignificant emission units and activities as identified in Section 6 of this permit.
- b. Pursuant to 35 IAC 205, the Permittee shall maintain the following records to determine compliance with the above limitation:
 - i. Records of operating data and other information for each individual emission unit or group of related emission units at the source, as specified in Sections 3 and 4 of this permit, as appropriate, to determine actual VOM emissions during the seasonal allotment period.
 - ii. Records of the VOM emissions, in tons, during the seasonal allotment period, with supporting calculations, for each individual emission unit or group of related emission units at the source, determined in accordance with the procedures specified in Sections 3 and 4 of this permit.
 - iii. Total VOM emissions from the source, in tons, during each seasonal allotment period.
- c. Pursuant to 35 IAC 205.205(b) and 35 IAC 205.300, the Permittee shall submit the seasonal emissions component of the Annual Emissions Report by October 31 of each year, reporting actual emissions of VOM during the seasonal allotment period.
- d. Pursuant to 35 IAC Section 205.150(c), in the event that the source's VOM emissions during the seasonal allotment period exceed 15 tons, the source shall no longer be exempt from the ERMS and shall immediately comply with 35 IAC Part 205, including holding allotment trading units (ATUs) for its VOM emissions during the first seasonal allotment period it exceeded 15 tons and each seasonal allotment period thereafter.

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4. 40 CFR 60 Subpart A Requirements (NSPS)

a. 40 CFR 60 Subpart A and Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Pursuant to 40 CFR 60 Subpart A and Subpart IIII, the Permittee shall comply with the following applicable General Provisions as indicated:

<i>General Provision Citation</i>	<i>General Provision Applicable?</i>	<i>Subject of Citation</i>	<i>Explanation (if required)</i>
40 CFR 60.1	Yes	General Applicability of the General Provisions	
40 CFR 60.2	Yes	Definitions	Additional terms defined in 40 CFR 60.4219
40 CFR 60.3	Yes	Units and Abbreviations	
40 CFR 60.4	Yes	Address	
40 CFR 60.5	Yes	Determination of Construction or Modification	
40 CFR 60.6	Yes	Review of Plans	
40 CFR 60.7	Yes	Notification and Recordkeeping	Except that 40 CFR 60.7 only applies as specified in 40 CFR 60.4214(a).
40 CFR 60.8	Yes	Performance Tests	Except that 40 CFR 60.8 only applies to stationary CI ICE with a displacement of (≥30 liters per cylinder and engines that are not certified.
40 CFR 60.9	Yes	Availability of Information	
40 CFR 60.10	Yes	State Authority	
40 CFR 60.11	No	Compliance with Standards and Maintenance Requirements	Requirements are specified in subpart IIII.
40 CFR 60.12	Yes	Circumvention	
40 CFR 60.13	Yes	Monitoring Requirements	Except that 40 CFR 60.13 only applies to stationary CI ICE with a displacement of (≥30 liters per cylinder.
40 CFR 60.14	Yes	Modification	
40 CFR 60.15	Yes	Reconstruction	
40 CFR 60.16	Yes	Priority List	
40 CFR 60.17	Yes	Incorporations by Reference	
40 CFR 60.18	No	General Control Device Requirements and Work Practice Requirements	
40 CFR 60.19	Yes	General Notification and Reporting Requirements	

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5. Construction Permits

The Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

I. Construction Permit #12100052 (Equipment Not Yet Constructed) [T1]

See Section 4.3 of this permit for the conditions of the proposed air pollution control device(s) incorporated from this construction permit.

II. Construction Permit #12100052 (Requirements Incorporated from Consent Decree, Case Action No. 2:10-CV-00121-TSZ)

1. Applicable Definitions. [See also Paragraph 6 of the Consent Decree]

"24-hour Block Average" shall be calculated by averaging the twenty-four (24) one-hour relevant data outputs (concentration or pounds) for a given Day and using the daily glass production rates (tons) on that Operating Day where applicable. [See also Paragraph 6.a of the Consent Decree]

"Abnormally Low Production Rate" shall mean a glass production rate at or below the production rate set forth below: [See also Paragraph 6.c and 10 of the Consent Decree]

- Furnace #1: 134 tons/day*
- Furnace #2: 98 tons/day
- Furnace #3: 95 tons/day

* Revised as provided by Paragraph 10 of the Consent Decree.

"Abnormally Low Production Rate Day" shall mean any Operating Day where production falls into the range of Abnormally Low Production Rate, for at least one continuous hour. [See also Paragraph 6.d of the Consent Decree]

"CEMS Certification Event" shall mean an event that triggers the requirement to complete a first or subsequent CEMS Certification. The first CEMS Certification shall not be required until December 31, 2014. Events that will trigger subsequent CEMS Certification include a Furnace Startup or a First Control Device Startup. SGCI shall commence such recertification no later than thirty (30) days after the Furnace Startup period concludes (but no later than seventy (70) Days after Furnace Startup commences) or First Control Device Startup period concludes. If a Furnace Startup and a First Control Device Startup happen at the same time, then the recertification shall not be conducted until the first Operating Day after the conclusion of the later startup event. [See also Paragraph 6.h of the Consent Decree]

"Color Transition" shall mean the period of not more than seven Days from the time when a glass color of an oxidation state different from that previously melted in the Furnace, is introduced to the Furnace, to the time when saleable glass bottles are being produced in the new color. [See also Paragraph 6.j of the Consent Decree]

"Continuous Operating Year" shall mean a Calendar Year during which, on every day of the year, at least one of the Furnaces connected to a control system is Operating. [See also Paragraph 6.n of the Consent Decree]

"Control Device Startup" shall mean the period of time from commencement of operation of the affected control system until the operation of the device has been stabilized and the device has achieved normal operating conditions. Such period shall not exceed thirty (30) Days. [See also Paragraph 6.o of the Consent Decree]

"Day" shall mean a calendar day unless expressly stated to be a working day or unless a State rule requires that CEMS data be reported on Standard time (with no change for

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Daylight Savings Time). In computing any period of time for determining reporting deadlines under this Consent Decree, where the last day would fall on a Saturday, Sunday, or federal or State holiday, in the State where the Facility is located, the period shall run until the close of business of the next working day. [See also Paragraph 6.r of the Consent Decree]

"Emission Rate 30-day Rolling Average" shall be expressed as pounds of pollutant per ton of glass produced calculated at the Furnace in question in accordance with the following formula and subparagraphs (i) and (ii) below: [See also Paragraph 6.t of the Consent Decree]

$$30\text{-day average (lb E/ton)} = [\text{COD}_E \text{ (lbs)} + \text{P29D}_E \text{ (lbs)}] / [\text{COD}_{\text{Prod}} \text{ (tons)} + \text{P29D}_{\text{Prod}} \text{ (tons)}]$$

Where:

30-day average (lb E/ton) = The Emission Rate 30-day rolling Average

E = Emissions of the pollutant in question (NO_x or SO₂)

COD = Current Operating Day where the relevant Emission Rate 30-day Rolling Average is the applicable limit.

COD_E = The daily Emissions as measured by a CEMS on the COD, in pounds.

COD_{Prod} = Daily glass production on the COD, in tons of glass.

P29D = The Previous 29 Operating Days where the relevant Emission Rate 30-day Rolling Average is the applicable limit.

P29D_E = The sum of the daily NO_x or SO₂ Emissions as measured by a CEMS during the P29D, in pounds.

P29D_{Prod} = The sum of the daily glass production during the P29D, in tons of glass.

- i. A new Emission Rate 30-day Rolling Average shall be calculated for each new Operating Day where the Emission Rate 30-day Rolling Average is the applicable standard. Any Operating Day where the newly calculated Emission Rate 30-day Rolling Average exceeds the limit is a separate one Day violation; and
- ii. Some Operating Days may be excluded from the Emission Rate 30-day Rolling Average as set forth in this Attachment 2, Sections 2-4.

"First Control Device Startup" shall only refer to the first startup of the relevant add-on control device (the affected control system). First Control Device Startup shall represent the period of time from commencement of operation of the device until the operation of the device has been stabilized and the device has achieved normal operating conditions, but shall not exceed thirty (30) Days. [See also Paragraph 6.w of the Consent Decree]

"Furnace" means for the purposes of NSPS only, a refractory vessel in which raw materials are charged, melted at high temperature, refined, and conditioned to produce molten glass which includes foundations, superstructure and retaining walls, raw material charger systems, heat exchangers, melter cooling system, exhaust system, refractory brick work, fuel supply and electrical boosting equipment, integral control systems and instrumentation, and appendages for conditioning and distributing molten glass to forming apparatuses. For all other purposes, "Furnace" means a unit comprised of a refractory-lined vessel in which raw materials are charged and melted at high temperature to produce molten glass. [See also Paragraph 6.x of the Consent Decree]

"Furnace Startup" means the period of time while a Furnace's refractory is being heated up from ambient temperature and includes the Initial Heating Phase, Refractory Soak and

Seal Phase, and Furnace Stabilization Phase. [See also Paragraph 6.y of the Consent Decree]

- i. "Initial Heating Phase" means the slow heating of the Furnace refractory using portable natural-gas burners placed in the openings in the Furnace. This phase typically lasts no longer than four (4) Days and ends when the main Furnace burners commence operation.
- ii. "Refractory Soak and Seal Phase" means the phase of the Furnace Startup following the Initial Heating Phase when the Furnace is filled with molten glass, the temperature of the Furnace reaches operating conditions, and the refractory components reach thermal equilibrium. This phase typically lasts no longer than twenty-one (21) Days and ends when the joints between the refractory components are sealed and the Furnace is closed to the atmosphere.
- iii. "Furnace Stabilization Phase" means the phase of Furnace Startup following the Refractory Soak and Seal Phase when the Furnace Operation is being stabilized. This phase will end no later than seventy (70) Days after the beginning of the Initial Heating Phase.

"Hot Spot Temperature" shall mean the highest temperature of the Furnace breastwall refractory. Breastwall refractory is the refractory sidewall between the tuck stone (about 18" above glass line) and the crown skew (where the Furnace crown meets the Furnace sidewall). [See also Paragraph 6.z of the Consent Decree]

"Inlet" shall be the emission concentration (in parts per million by volume dry) measured prior to the control device. [See also Paragraph 6.aa of the Consent Decree]

"Maintenance" shall mean activities necessary to keep the system or equipment working in its normal operating condition as set forth in this Attachment 2, Section 7. [See also Paragraph 6.cc of the Consent Decree]

"Malfunction" shall mean, consistent with 40 CFR 60.2, any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner, but shall not include failures that are caused in part by poor Maintenance or careless operation. [See also Paragraph 6.ee of the Consent Decree]

"Operating Day" shall mean any Day where any fuel is fired into the Furnace. The Day starts at 12:00 am and ends at 11:59 pm. [See also Paragraph 6.kk of the Consent Decree]

"Outlet" shall mean the emission concentration (in parts per million by volume dry) measured after a control device. [See also Paragraph 6.ll of the Consent Decree]

"Outlet 30-day Rolling Average" is a term which applies only to SO₂ and shall be calculated by determining the Outlet 24-hour Block Average concentration from each Furnace (or combined stack, if applicable) during an Operating Day and previous twenty-nine (29) Operating Days when Outlet 30-day Rolling Average was the applicable standard. A new Outlet 30-day Rolling Average shall be calculated for each Operating Day. Any Operating Day where the newly calculated Outlet 30-day Rolling Average exceeds the limit is a separate one Day violation. As specified in this Consent Decree, the following Operating Days are exempt from this average: Control Device Startup, Malfunction of the affected control system and Maintenance on the affected control system. [See also Paragraph 6.mm of the Consent Decree]

"Removal Efficiency" for SO₂ means the percent reduction in concentration of that pollutant achieved by a Furnace's pollution control device. This percent reduction shall be calculated by subtracting the Outlet from the Inlet, dividing by the Inlet and then multiplying by 100. [See also Paragraph 6.vv of the Consent Decree]

"Removal Efficiency 30-day Rolling Average" is a term which applies to SO₂ emissions and shall be calculated by summing the Removal Efficiency 24-hour Block Averages from each Furnace (or combined stack, if applicable) for each Operating Day and previous twenty-nine (29) Operating Days when Removal Efficiency 30-day Rolling Average was the applicable standard and then dividing by 30. A new Removal Efficiency 30-day Rolling Average shall be calculated for each new Operating Day. Any Operating Day where the newly calculated Removal Efficiency 30-day Rolling Average is less than the Removal Efficiency limit is a separate one-day violation. The following Operating Days are exempt from this average: Control Device Startup of the affected control system; Malfunction of the affected control system; and Maintenance on the affected control system. [See also Paragraph 6.wv of the Consent Decree]

2. NO_x Emission Controls, Limits, and Compliance Schedule. [See also Paragraph 7 of the Consent Decree]

a. Interim NO_x Emission Limits: [See also Paragraph 7.a of the Consent Decree]

- i. Emissions of NO_x from the following furnaces shall not exceed the following annual limits. The "ton/year" NO_x emission limits shall remain in place until the affected control system has been installed.

Furnace #2: 316.8 tons NO_x/calendar year

Furnace #3: 305.5 tons NO_x/calendar year

- ii. Compliance with the annual ton per year interim limit shall be calculated using the following equation:

$$\text{NO}_x = [(\text{PastTest} \times \text{1stProd})/2000] + [(\text{NewTest} \times \text{2ndProd})/2000]$$

Where:

NO_x = NO_x Emissions (tpy)

PastTest = Last source test result (lb/ton). If no source test has been conducted pursuant to this Consent Decree, the Interim Emission Factor of 6.2 lb/ton, shall be used.

NewTest = New test from the year for which emissions are being calculated (lb/ton).

1stProd = Production from January 1st through the Day prior to the Day the new source test is commenced (tons of glass).

2ndProd = Production from the Day of the new source test through the end of that same Calendar Year (tons of glass).

Note: If SGCI elects to do more than one test in a year, emissions calculated on the Days following the second test, will be based on that second test.

[See also Paragraph 7.a.iv of the Consent Decree]

- iii. Upon NO_x CEMS installation and certification, compliance with the interim NO_x emission limit shall be demonstrated using emissions data generated by the NO_x CEMS in order to calculate all subsequent daily emission rates that are used to calculate the annual emission rate for the Calendar Year. For the first Calendar Year during which CEMS are installed and certified, the annual emissions calculated will be the sum of the tons of NO_x emitted on the Days when the emissions were determined from source test data and the tons of NO_x emitted on the Days when emissions were determined by CEMS data. [See also Paragraph 7.a.v of the Consent Decree]

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- b. NO_x Emission Controls and Compliance Schedule: [See also Paragraph 7.b of the Consent Decree]
- i. The Permittee shall install the affected control system for the affected furnaces no later than December 31, 2014. [See also Paragraph 7.b of the Consent Decree.]
- ii. No later than the first Operating Day after December 31, 2014, the Permittee shall commence operation of the affected control system to control emissions from each of the affected furnaces. [See also Paragraph 7.d.i of the Consent Decree.]
- A. The affected control system shall be designed for a removal efficiency of at least 90 percent; and
- B. When the affected control system is operating, the Permittee shall continuously operate the affected control system according to the vendor recommendations in order to minimize emissions to the extent practicable taking into consideration ammonia slip.
- iii. The Permittee shall comply with the following applicable NO_x limits for Furnaces #1, #2, and #3: [See also Paragraph 7.d.ii of the Consent Decree.]
- A. Emission Rate 30-day Rolling Average Limit - Commencing on the first Operating Day after completion of the Control Device Startup and CEMS Certification, but no later than December 31, 2014, SGCI shall not emit more than 1.3 pounds of NO_x per ton of glass produced on a 30-day rolling average, as measured using a NO_x CEMS (where available), except during the following periods (as set forth below): Abnormally Low Production Rate Days for any of the Furnaces; Control Device Startup; up to the first seven (7) days of the Furnace Startup; Malfunction of the affected control system; and Maintenance of the affected control system.
- Compliance with the 30-day rolling limit may be determined by averaging the emissions from all Furnaces subject to the same emission limit. [See also Paragraph 7.j of the Consent Decree]
- B. NO_x Limit during Abnormally Low Production Rate Days - When any of the Furnace(s) ducted through the affected control system is Operating at an Abnormally Low Production Rate, SGCI may elect to exclude emissions from all Furnaces connected to the affected control system from the Emission Rate 30-day Rolling Average. During these Days, a CEMS shall be used to demonstrate compliance on a 24-hour Block Average with the following pound per day limit:

$$NO_x \text{ SCR Abn} = 1.3 \text{ lb NO}_x/\text{ton} \times (P/0.35)$$

Where:

NO_x SCR Abn = NO_x emission limit for affected control system during an Abnormally Low Production Rate Day on any of the Furnaces ducted through the affected control system, in pounds per day

P = Sum of the Furnace-specific production thresholds as defined in this Attachment 2, Section 1 (definition of Abnormally Low Production Rate), in tons of glass produced per day for all of the Furnaces ducted through the affected control system.

- C. The first seven (7) days of the Furnace Startup - For no more than the first seven (7) Days of the Furnace Startup, the Furnace exhaust may bypass the affected control system to avoid having the operating inlet temperature of the affected control system fall below its operational range. During these bypass Days SGCI shall burn no more than 15.0 million standard cubic feet of natural gas in that Furnace.
- D. NO_x limit during Startup of the affected control system and Malfunction of the affected control system - For any Operating Day during the Startup of the affected control system or where a Malfunction of the affected control system occurs for any period of time, SGCI may elect to exclude the emissions generated during that Operating Day (or Operating Days if the event covers more than one Operating Day) from the Emission Rate 30-day Rolling Average. During the Malfunction Days excluded from the Emission Rate 30-day Rolling Average, a CEMS shall be used to demonstrate compliance on a 24-hour Block Average with the following pound per day limit:

$$NO_{x \text{ SCR Malf, SCR Startup}} = 5 \times NO_{x \text{ SCR Abn}}$$

Where:

NO_{x SCR Malf, SCR Startup} = NO_x emission limit for a Furnace using the affected control system during a Malfunction Day and during the affected control system Startup, in pounds per day.

NO_{x SCR Abn} = As defined in this Attachment 2, Section 2.b.iii.B, NO_x emission limit for the affected control system during an Abnormally Low Production Rate Day, in pounds per day.

- E. NO_x limit during Maintenance of the affected control system - For any Operating Day where Maintenance activities on the affected control system are performed, SGCI may elect to exclude the Maintenance Day from the Emission Rate 30-day Rolling Average. For any Day which is excluded from the 30-day rolling average, a CEMS shall be used to demonstrate compliance on a 24-hour Block Average with the following pound per day limit:

$$NO_{x \text{ SCR Maint}} = [MH \times (5 \times NO_{x \text{ SCR Abn}})/24] + [(NH \times NO_{x \text{ SCR Abn}})/24]$$

Where:

NO_{x SCR Maint} = NO_x emission limit for a Furnace using the affected control system during a Maintenance Day, in pounds per day

NO_{x SCR Abn} = As defined in this Attachment 2, Section 2.b.iii.B, NO_x emission limit for a Furnace using the affected control system during an Abnormally Low Production Rate Day, in pounds per day

MH = Hours of Maintenance

NH = Normal Hours = 24 - MH

- c. Monitoring: A CEMS, if available, shall be used to demonstrate compliance with the NO_x limits in this Attachment 2, Section 2.b.iii. If SGCI does not have a CEMS when it is required to meet these limits, compliance shall be demonstrated using data generated from annual stack tests complying with 40 CFR 60 Appendix A Method 7E. If a CEMS Certification Event occurs, then the requirement to demonstrate compliance continuously with the limit for that Furnace will be suspended until

Certification is completed (provided the seven-day test required for Certification is commenced the first Operating Day following the conclusion of the CEMS Certification Event). [See also Paragraph 7.f of the Consent Decree]

- d. Recordkeeping: For any Operating Day that SGCI is excluding emissions from the relevant Emission Rate 30-day Rolling Average, it shall record the date, the exception (Abnormally Low Production Rate Day, Furnace Startup, Control Device Startup, Malfunction, or Maintenance) under which it is excluded, a calculation of the applicable limit (pounds per day) according to the equations above, and the recorded emissions according to the CEMS (pounds per day). For any Operating Day excluded for Maintenance, SGCI shall record the total number of hours during which Maintenance occurred. [See also Paragraph 7.h of the Consent Decree]
 - e. Recordkeeping and Reporting during Furnace Startup: In addition to the recordkeeping in this Attachment 2, Section 2.d above, during the applicable Furnace Startup period phases SGCI must also keep the following records: [See also Paragraph 7.i and 6 of the Consent Decree]
 - i. For the Initial Heating Phase, total natural gas usage in that Furnace (in million standard cubic feet).
 - ii. For the Refractory Soak and Seal Phase:
 - A. Total natural gas usage in that Furnace (in million standard cubic feet);
 - B. Excess oxygen percentage at the Furnace exhaust flue (as determined by handheld monitor once per shift);
 - C. Hot Spot Temperature (measured once per shift); and
 - D. A certified statement asserting whether thermal blankets or similar techniques were used during this period.
 - iii. For the Furnace Stabilization Phase:
 - A. Total natural gas usage in that Furnace (in million standard cubic feet);
 - B. Excess oxygen percentage at the Furnace exhaust flue (as determined by handheld monitor once per shift); and
 - C. Average Hot Spot Temperature (measured once per shift).
 - iv. The Permittee shall track the status of the Startup including conditions that may be used to indicate whether the Furnace Stabilization Phase should have been completed earlier than 70 days after the beginning of the Initial Heating Phase.
3. SO₂ Emission Controls, Limits, and Compliance Schedule. [See also Paragraph 8 of the Consent Decree]
- a. Interim SO₂ Emission Limits: [See also Paragraph 8.a of the Consent Decree]
 - i. The affected furnaces shall meet an interim limit of 2.5 pounds of SO₂ per ton of glass produced except during periods of Abnormally Low Production Rate Days, Furnace Startup, Malfunction, Maintenance, and Color Transition. This interim limit shall remain in effect until the Furnace is required to comply with an SO₂ emission limit specified in this Attachment 2, Section 3.b.i. [See also Paragraph 8.a.i of the Consent Decree]

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- ii. While more than one furnace is subject to an interim limit, compliance may be determined by averaging the emissions from all such Furnaces at a given Facility. [See also Paragraph 8.a.iv of the Consent Decree]
- b. SO₂ Emission Controls and Compliance Schedule. [See also Paragraph 8.b of the Consent Decree]
 - i. No later than the first Operating Day after December 31, 2014, SGCI shall Operate the Furnace passing all stack gases through the affected control system except during periods of Control Device Startup, up to the first seven (7) days of the Furnace Startup, and during Malfunction of the affected control system and Maintenance on the affected control system. [See also Paragraph 8.d.i of the Consent Decree]
 - ii. SGCI shall comply with the following applicable SO₂ limits for Furnaces #1, #2, and #3: [See also Paragraph 8.d.ii of the Consent Decree]
 - A. SO₂ 30-day Rolling Average Limit - Commencing on the first Operating Day after completion of the Control Device Startup and CEMS Certification, but no later than December 31, 2014, SGCI shall comply with the following limits as measured using an SO₂ CEMS, except during the following periods (as set forth in this Subparagraph): Control Device Startup, up to the first seven (7) days of Furnace Startup, Malfunction of the affected control system, and Maintenance of the affected control system. [See also Paragraph 8.d.ii.1 of the Consent Decree]
 - I. No dilution air will be intentionally added to the stack gases between the affected control system and the CEMS. When determining compliance with all affected control system limits, there shall be no oxygen correction, as per vendor guarantee. [See also Paragraph 8.d.ii.1.a of the Consent Decree]
 - II. SGCI shall determine a daily Inlet 24-Hour Block Average. The compliance limit for each Operating Day will depend on the daily Inlet 24-hour Block Average and will either be as defined in (III) or (IV) below, but not both. [See also Paragraph 8.d.ii.1.b of the Consent Decree]
 - III. If the average daily Inlet calculated in (II) above is equal to or greater than 167 parts per million by volume dry (ppmvd) then the Removal Efficiency on a 24-hour Block Average for that Day and a Removal Efficiency 30-day Rolling Average shall be calculated. SGCI must operate the affected control system such that the Removal Efficiency 30-day Rolling Average is greater than or equal to 70 percent. [See also Paragraph 8.d.ii.1.c of the Consent Decree]
 - IV. If the average daily Inlet calculated in (II) above is less than 167 ppmvd, then the Outlet 24-hour Block Average for that Day and Outlet 30-day Rolling Average shall be calculated. SGCI must operate the affected control system such that the Outlet 30-day Rolling Average is less than or equal to 50 ppmvd. [See also Paragraph 8.d.ii.1.d of the Consent Decree]
 - B. SO₂ limit during Control Device Startup or up to the first seven (7) days of Furnace Startup - SGCI shall comply with the following operational limit to limit SO₂ emissions during all phases of Control Device Startup or up to the first seven (7) days of Furnace Startup: [See also Paragraph 8.d.ii.2 of the Consent Decree]

- I. During the startup period, SGCI will limit the amount of sulfur added to the batch materials to 2.6 pounds per ton of total batch material (including cullet) or less. [See also Paragraph 8.d.ii.2.a of the Consent Decree]
- II. For no more than the first seven (7) Days of Furnace Startup, the Furnace exhaust may bypass the affected control system to avoid having the operating inlet temperature of the affected control system fall below its operational range. During these bypass Days, SGCI shall burn no more than 15.0 million standard cubic feet of natural gas in that furnace. [See also Paragraph 8.d.ii.2.b of the Consent Decree]
- C. SO₂ limit during Malfunction of the affected control system - For any Operating Day where a Malfunction of the affected control system occurs for any period of time, SGCI may elect to exclude the emissions generated during that Operating Day (or Operating Days if the event covers more than one Operating Day) from the Removal Efficiency 30-day Rolling Average and Outlet 30-day Rolling Average emission rates. During the Malfunction Days excluded from the Removal Efficiency 30-day Rolling Average and Outlet 30-day Rolling Average emission rates, a CEMS shall be used to demonstrate compliance on a 24-hour Block Average with the following pound per day limit: [See also Paragraph 8.d.ii.2.c of the Consent Decree]

$$SO_2 \text{ Scrub Malf} = (2.5 \text{ lb } SO_2/\text{ton}) \times (P/0.35)$$

Where:

SO₂ Scrub Malf = SO₂ emission limit during a Malfunction Day, in pounds per day.

P = Furnace-specific production threshold as defined in this Attachment 2, Section 1 (definition of Abnormally Low Production Rate, in tons of glass produced per day.

- D. SO₂ limit during Maintenance of the affected control system - For any Operating Day where Maintenance activities on the affected control system are performed, SGCI may elect to exclude the Maintenance Day from the Removal Efficiency 30-day Rolling Average and Outlet 30-day Rolling Average emission rates. For any Maintenance Day which is excluded from the 30-day Rolling Average, a CEMS shall be used to demonstrate compliance on a 24-hour Block Average with the following pound per day limit: [See also Paragraph 8.d.ii.2.d of the Consent Decree]

$$SO_2 \text{ Scrub Maint} = [MH \times (2.5 \text{ lb } SO_2/\text{ton}) \times (P/0.35)]/24 + [NH \times ((2/3) \times 2.5 \text{ lb } SO_2/\text{ton} \times (P/0.35)]/24$$

Where:

SO₂ Scrub Maint = SO₂ emission limit during a Maintenance Day, in pounds per day

P = Furnace-specific production threshold as defined in this Attachment 2, Section 1 (Abnormally Low Production Rate), in tons of glass produced per day

MH = Hours of Maintenance

NH = Normal Hours = 24 - MH

- c. Monitoring. [See also Paragraph 8.h of the Consent Decree]

A CEMS, if available, shall be used to demonstrate compliance with the SO₂ limits in this Attachment 2, Section 3.b.i and ii. using data generated by the SO₂ CEMS. If the Facility does not have a CEMS when it is required to meet these limits, compliance shall be demonstrated using data generated from annual stack tests complying with 40 CFR 60 Appendix A. If a CEMS Certification Event occurs, then the requirement to demonstrate compliance continuously with the limit for that Furnace will be suspended until Certification is completed (provided the seven-day test required for Certification is commenced the first Operating Day following the conclusion of the CEMS Certification Event).

- d. Recordkeeping. [See also Paragraph 8.j of the Consent Decree]

For any Operating Day that SGCI is excluding emissions from the relevant Emission Rate 30-day Rolling Average, it shall record the date, the exception (during periods of affected control system startup, up to the first seven (7) days of Furnace Startup, during malfunction of the affected control system, or during maintenance of the affected control system) under which it is excluded, a calculation of the applicable limit (pounds per day) according to the equations above, and the recorded emissions according to the CEMS, if a certified CEMS is available (in pounds per day).

- e. Recordkeeping and Reporting during Furnace Startup: [See also Paragraph 8.k of the Consent Decree]

In addition to the recordkeeping above, during all Furnace Startup phases SGCI must also keep records of the amount of sulfur added to the batch materials in pounds per ton of total batch material.

- f. Where a Facility has more than one Furnace subject to the same emission limit, compliance with the 30-day rolling average limits set forth herein may be determined by averaging the emissions from all Furnaces subject to the same emission limit at a given Facility. [See also Paragraph 8.l of the Consent Decree]

4. Sulfuric Acid Mist Limits: [See also Paragraph 8.n of the Consent Decree]

Compliance with a Sulfuric Acid Mist emission limit of 1.0 pounds per ton of glass produced shall be demonstrated by a stack test performed using Conditional Test Method 13A or B on all Furnaces once during the life of each CAAPP permit renewal.

5. PM Emission Controls, Limits, and Compliance Schedule: [See also Paragraph 9 of the Consent Decree]

- a. Interim PM Emission Limit: [See also Paragraph 9.a of the Consent Decree]

i. SGCI shall comply with an interim PM emission limit of 1.0 pound of filterable PM per ton of glass produced. [See also Paragraph 9.a.i of the Consent Decree]

ii. The interim PM emission limit shall remain in effect until the Furnace is required to comply with a PM emission limit specified in Paragraph 5.c. through 5.h. below. [See also Paragraph 9.a.iv of the Consent Decree]

- b. PM Emission Controls and Compliance Schedule [See also Paragraph 9.b of the Consent Decree]

For each affected furnace, SGCI shall operate the affected control system. [See also Paragraph 9.b.i of the Consent Decree]

- c. i. After up to the first seven (7) days of the Furnace Startup period following the next Major Rebuild, but no later than the first Operating Day after December 31, 2014, SGCI shall Operate the Furnace passing all stack gases through the affected control system, except during periods of Control Device Startup, Malfunction of the affected control system, and Maintenance of the affected control system. [See also Paragraph 9.c.i of the Consent Decree]
 - ii. SGCI shall comply with the PM emission limit of 0.2 pounds of filterable PM per ton of glass produced; for such Furnaces there shall be no limit for total or condensable PM. [See also Paragraph 9.c.ii of the Consent Decree]
 - iii. A. Compliance with the PM limit shall be demonstrated through annual stack tests. SGCI shall conduct an initial stack test no later than twelve (12) months after December 31, 2014 and once each Calendar Year thereafter. [See also Paragraph 9.c.iii of the Consent Decree]
 - B. Filterable PM shall be determined using EPA Method 5 (40 CFR 60 Appendix A). [See also Paragraph 9.c.iii.1 of the Consent Decree]
- d. Compliance with the limits on each Furnace set forth herein shall be determined using the following equation: [See also Paragraph 9.j of the Consent Decree]

$$\text{PM Emission Rate} = [(\text{lbs of PM from ST}) / (\text{Daily production (tons)})] \times [(24 \text{ hours}) / (\text{source test length (hrs)})]$$

Where:

PM Emission Rate = PM Emissions rate (lb PM/ton glass)

Lbs of PM from ST = The pounds of PM measured during the entire length of the source test (including all runs).

Daily production = The amount of glass produced on all Furnaces during the Day of the source test.

Source test length = Length of the entire source test (including all runs), in hours.

If the resulting number is below the limit set forth on each Furnace individually, then all included Furnaces are in compliance. If the resulting number is above the limits set forth on each Furnace individually, then all included Furnaces are in noncompliance.

6. Good Operation. [See also Paragraph 12 of the Consent Decree]

At all times, including periods of Abnormally Low Production Rate Days, Furnace Startup, Control Device Startup, Malfunction, Maintenance, and Color Transition, SGCI shall, to the extent practicable, maintain and operate all Furnaces and all control devices in a manner consistent with good air pollution control practice for minimizing emissions.

7. Maintenance. [See also Paragraph 13 of the Consent Decree]

- a. Scheduled or preventative Furnace Maintenance, including checker raking and burning, shall not exceed ninety-six (96) Operating hours annually per furnace and shall be conducted only when any downstream control devices required by this permit, i.e., the affected control system, if applicable, is operating. [See also Paragraph 13.a of the Consent Decree]
- b. Control system scheduled or preventative Maintenance

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- i. Scheduled or preventative Maintenance of the emission control system shall occur when the Furnace(s) connected to the affected control system are not Operating. However, for any Calendar Year which is a Continuous Operating Year, scheduled or preventative maintenance may be conducted while the Furnace(s) are Operating. During these Continuous Operating Years, Maintenance lasting greater than twenty-four consecutive hours, shall occur only during Abnormally Low Production Rate Days. Control system Maintenance must be done in compliance with the following: [See also Paragraph 13.b of the Consent Decree]
- ii. Bypass for the purpose of preventative Maintenance of the affected control system shall not exceed 144 hours annually in any Calendar Year. [See also Paragraph 13.b.i through 13.b.iii of the Consent Decree]

Note: Because the affected control system is an integrated system and individual components of the control system cannot be bypassed, only a single 144-hour aggregate bypass limit is allowed per calendar year.

8. Source Testing. [See also Paragraph 14 of the Consent Decree]

Each source test shall be conducted in accordance with the requirements of the specified test method and shall be performed under representative operating conditions and shall not be conducted during periods of Abnormally Low Production Rate Days, Furnace Startup, Control Device Startup, Malfunction of the Furnace or relevant control system, Maintenance of the Furnace or relevant control system, or Color Transition.

9. Monitoring Requirements:

By no later than December 31, 2014, SGCI shall install, calibrate, certify, maintain, and operate NO_x and SO₂ CEMS. The CEMS certification cannot occur during periods of Abnormally Low Production Rate Days, Furnace Startup, Control Device Startup, Malfunction, Maintenance, or Color Transition. SGCI shall commence a new CEMS Certification on a particular Furnace on the first Operating Day after each CEMS Certification Event concludes on that Furnace. [See also Paragraph 15.a and 15.c of the Consent Decree]

- a. The NO_x and SO₂ CEMS shall monitor continuously and record the hourly NO_x and SO₂ emission concentration (parts per million) during each Operating Day from each Furnace (or Furnaces where more than one Furnace subject to the same emission limit is routed through a common exhaust stack). The CEMS shall calculate and record in units of parts per million of NO_x and SO₂ emitted. [See also Paragraph 15.c.i of the Consent Decree]
- b. The CEMS shall be installed, calibrated, certified, maintained, and operated in accordance with 40 CFR 60.13, 40 CFR 60 Appendix B (Performance Specification 2) and 40 CFR 60 Appendix F (Quality Assurance Procedures). [See also Paragraph 15.c.ii of the Consent Decree]
- c. Where this permit requires the use of CEMS to determine an emission rate (pound per ton or ton per year), then SGCI is required to either:
 - i. Follow requirements set forth above in Condition 8 for the CEMS and then use an EPA approved method for calculating flow. In conjunction with the EPA approved flow method calculation, the data acquisition and handling system for the CEMS shall convert the ppm values into pound per hour values where the limit is expressed in pounds of pollutant per ton of glass produced. At the end of each Operating Day, the data acquisition and handling system shall divide the total daily emissions in pounds per day for valid CEMS hourly data by the total tons of glass produced during the Operating Day (reduced proportionally based on the valid CEMS data hours) to describe the

pound per ton emission rate for the Operating Day. This number shall be recorded in units of pounds of pollutant per ton of glass produced; or

- ii. Install, calibrate, certify, maintain, and operate NO_x and SO₂ Continuous Emission Rate Monitoring System (CERMS) as follows:
 - A. The CERMS shall be installed, calibrated, certified, maintained, and operated in accordance with 40 CFR 60.13, 40 CFR 60 Appendix B (Performance Specification 6), and 40 CFR 60 Appendix F (Quality Assurance Procedures);
 - B. SGCI must comply with all monitoring, recordkeeping and reporting requirements in 40 CFR 60.13 and 40 CFR 60 Appendix B (Performance Specification 6); and
 - C. In conjunction with the flow rate monitoring device, the data acquisition and handling system for the CEMS shall convert the ppm values into pound per hour values where the limit is expressed in pounds of pollutant per ton of glass produced. At the end of each Operating Day, the data acquisition and handling system shall divide the total daily emissions in pounds per day for valid CEMS hourly data by the total tons of glass produced during the Operating Day (reduced proportionally based on the valid CEMS data hours) to describe the pound per ton emission rate for the Operating Day. This number shall be recorded in units of pounds of pollutant per ton of glass produced for the applicable Day.

Section 8 - State Only Requirements

1. Permitted Emissions for Fees

The annual emissions from the source for purposes of "Duties to Pay Fees" of Condition 2.3(e), not considering insignificant activities as addressed by Section 6, shall not exceed the following limitations. The overall source emissions shall be determined by adding emissions from all emission units. Compliance with these limits shall be determined on a calendar year basis. The Permittee shall maintain records with supporting calculations of how the annual emissions for fee purposes were calculated. This Condition is set for the purpose of establishing fees and is not federally enforceable. See Section 39.5(18) of the Act.

<i>Pollutant</i>		<i>Tons/Year</i>
Volatile Organic Material	(VOM)	33.7
Sulfur Dioxide	(SO ₂)	129.94
Particulate Matter	(PM)	84.613
Nitrogen Oxides	(NO _x)	230.76
HAP, not included in VOM or PM	(HAP)	4.66
Total		483.673

2. NO_x RACT Requirements

- a. Pursuant to 35 IAC 217.204, on and after January 1, 2015, emissions of NO_x from the glass melting furnaces shall not exceed the following limits:
- i. No person shall cause or allow emissions of NO_x into the atmosphere from any glass melting furnace to exceed 5.0 lb NO_x/ton glass produced. Compliance must be demonstrated with the emissions limitation on an ozone season and annual basis.
 - ii. The emissions during glass melting furnace startup (not to exceed 70 days) or furnace idling (operation at less than 35% of furnace capacity) shall be excluded from calculations for the purpose of demonstrating compliance with the seasonal and annual emissions limitations above, provided that the owner or operator, at all times, including periods of startup and idling, to the extent practicable, maintain and operate any affected emission unit, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. The owner or operator of a glass melting furnace must maintain records that include the date, time, and duration of any startup or idling in the operation of the glass melting furnace.

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Attachment 1 - List of Emission Units at This Source

<i>Section</i>	<i>Emission Units</i>	<i>Description</i>
4.1	Material Handling	Conveyors, elevators, storage bins receive and process raw materials
4.2	Mixers	Mixing of raw materials
4.3	Glass Melting Furnaces	Equipped with gas-fired burners continuously melt raw materials for production of molten glass
4.4	Distributors/Forehearths	Deliver molten glass with precise temperature, homogeneity and control
4.5	Lehrs	Reduce the strains and stresses from the forming process
4.6	Glass Forming Machines	Glass containers are formed from molten glass in metal molds
4.7	Hot End Coating	Newly formed glass containers are surface treated with an organotin compound to make them resistant to scratches and breakage.

Attachment 2 - Acronyms and Abbreviations

acfm	Actual cubic feet per minute
ACMA	Alternative Compliance Market Account
Act	Illinois Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711
ATU	Allotment trading unit
BACT	Best Available Control Technology
BAT	Best Available Technology
Btu	British Thermal Units
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CAIR	Clean Air Interstate Rule
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CISWI	Commercial Industrial Solid Waste Incinerator
CO	Carbon monoxide
CO ₂	Carbon dioxide
COMS	Continuous Opacity Monitoring System
CPMS	Continuous Parameter Monitoring System
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
ERMS	Emissions Reduction Market System
°F	Degrees Fahrenheit
GHG	Green house gas
GACT	Generally Acceptable Control Technology
gr	Grains
HAP	Hazardous air pollutant
Hg	Mercury
HMIWI	Hospital medical infectious waste incinerator
hp	Horsepower
hr	Hour
H ₂ S	Hydrogen sulfide
I.D. No.	Identification number of source, assigned by IEPA
IAC	Illinois Administrative Code
ILCS	Illinois Compiled Statutes
IEPA	Illinois Environmental Protection Agency
kw	Kilowatts
LAER	Lowest Achievable Emission Rate
lbs	Pound

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m	Meter
MACT	Maximum Achievable Control Technology
M	Thousand
MM	Million
mos	Month
MSDS	Material Safety Data Sheet
MSSCAM	Major Stationary Sources Construction and Modification (Non-attainment New Source Review)
MW	Megawatts
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO _x	Nitrogen oxides
NSPS	New Source Performance Standards
NSR	New Source Review
PB	Lead
PEMS	Predictive Emissions Monitoring System
PM	Particulate matter
PM ₁₀	Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 microns as measured by applicable test or monitoring methods
PM _{2.5}	Particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 microns as measured by applicable test or monitoring methods
ppm	Parts per million
ppmv	Parts per million by volume
ppmw	Parts per million by weight
PSD	Prevention of Significant Deterioration
PSEU	Pollutant-Specific Emission Unit
psia	Pounds per square inch absolute
PTE	Potential to emit
RACT	Reasonable Available Control Technology
RMP	Risk Management Plan
scf	Standard cubic feet
SCR	Selective catalytic reduction
SIP	State Implementation Plan
SO ₂	Sulfur dioxide
T1	Title I - identifies Title I conditions that have been carried over from an existing permit
T1N	Title I New - identifies Title I conditions that are being established in this permit
T1R	Title I Revised - identifies Title I conditions that have been carried over from an existing permit and subsequently revised in this permit
USEPA	United States Environmental Protection Agency
VOM	Volatile organic material

Attachment 3 - Contact and Reporting Addresses

<p style="text-align: center;">IEPA Compliance Section</p> <p style="text-align: center;">IEPA Stack Test Specialist</p> <p style="text-align: center;">IEPA Air Quality Planning Section</p> <p style="text-align: center;">IEPA Air Regional Field Operations Regional Office #1</p> <p style="text-align: center;">IEPA Permit Section</p>	<p>Illinois EPA, Bureau of Air Compliance & Enforcement Section (MC 40) 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276</p> <p>Phone No.: 217/782-2113</p> <p>Illinois EPA, Bureau of Air Compliance Section Source Monitoring - Third Floor 9511 Harrison Street Des Plaines, Illinois 60016</p> <p>Phone No.: 847/294-4000</p> <p>Illinois EPA, Bureau of Air Air Quality Planning Section (MC 39) 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276</p> <p>Phone No.: 217/782-2113</p> <p>Illinois EPA, Bureau of Air Regional Office #1 9511 Harrison Street Des Plaines, Illinois 60016</p> <p>Phone No.: 847/294-4000</p> <p>Illinois EPA, Bureau of Air Permit Section (MC 11) 1021 North Grand Avenue East P.O. Box 19506 Springfield, Illinois 62794-9506</p> <p>Phone No.: 217/785-1705</p>
<p style="text-align: center;">USEPA Region 5 - Air Branch</p>	<p>USEPA (AR - 17J) Air and Radiation Division 77 West Jackson Boulevard Chicago, Illinois 60604</p> <p>Phone No.: 312/353-2000</p>

Attachment 4 - Example Certification by a Responsible Official

SIGNATURE BLOCK	
NOTE: THIS CERTIFICATION MUST BE SIGNED BY A RESPONSIBLE OFFICIAL. APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE DEEMED AS INCOMPLETE.	
I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION ARE TRUE, ACCURATE AND COMPLETE. ANY PERSON WHO KNOWINGLY MAKES A FALSE, FICTITIOUS, OR FRAUDULENT MATERIAL STATEMENT, ORALLY OR IN WRITING, TO THE ILLINOIS EPA COMMITS A CLASS 4 FELONY. A SECOND OR SUBSEQUENT OFFENSE AFTER CONVICTION IS A CLASS 3 FELONY. (415 ILCS 5/44(H))	
AUTHORIZED SIGNATURE:	
BY: _____	_____
AUTHORIZED SIGNATURE	TITLE OF SIGNATORY
_____	_____/_____/_____
TYPED OR PRINTED NAME OF SIGNATORY	DATE

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