



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM**

TITLE V/STATE OPERATING PERMIT

Issue Date:	November 27, 2019	Effective Date:	May 22, 2023
Revision Date:	May 22, 2023	Expiration Date:	October 31, 2024
Revision Type:	Amendment		

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to operate the air emission source(s) more fully described in this permit. This Facility is subject to all terms and conditions specified in this permit. Nothing in this permit relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable applicable requirements unless otherwise designated as "State-Only" or "non-applicable" requirements.

TITLE V Permit No: 42-00028

Federal Tax Id - Plant Code: 35-1958205-1

Owner Information

Name: ARDAGH GLASS INC
Mailing Address: 1 GLASS PL
PORT ALLEGANY, PA 16743-1154

Plant Information

Plant: ARDAGH GLASS INC/PORT ALLEGANY PLT
Location: 42 McKean County 42803 Port Allegany Borough
SIC Code: 3221 Manufacturing - Glass Containers

Responsible Official

Name: MICHAEL WANSON
Title: PLANT MANAGER
Phone: (814) 642 - 3248 Email: michael.wanson@ardaghgroup.com

Permit Contact Person

Name: JIM SARABIA
Title: ENV OPS MGR
Phone: (765) 212 - 7337 Email: jim.sarabia@ardaghgroup.com

[Signature] _____
ERIC A. GUSTAFSON, NORTHWEST REGION AIR PROGRAM MANAGER

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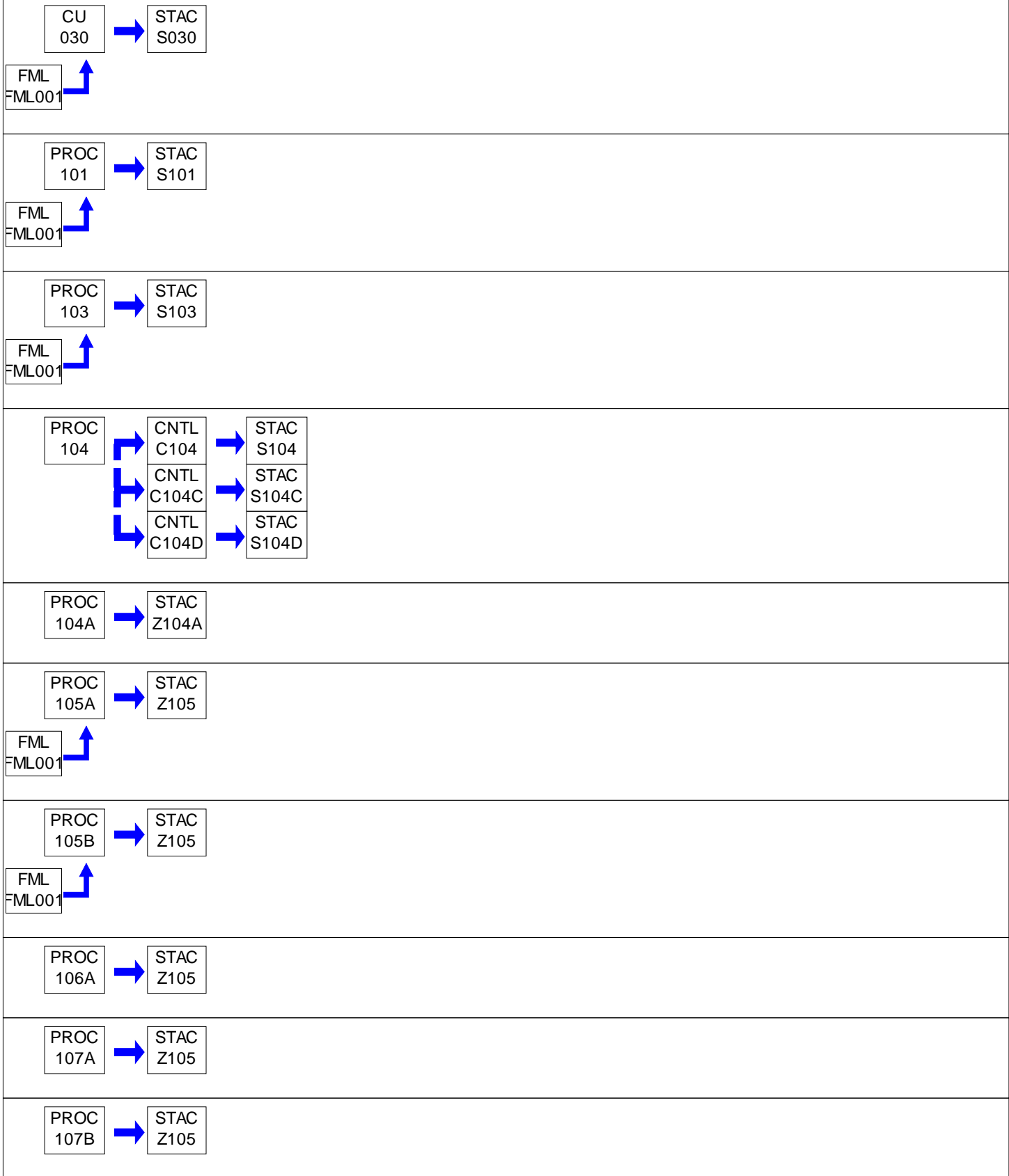
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
030	BOILERS	0.775 MMBTU/HR	
		760.000 CF/HR	Natural Gas
101	FURNACE 1	8.500 Tons/HR	GLASS
		41.600 MCF/HR	Natural Gas
103	FURNACE 3	11.700 Tons/HR	GLASS
		50.000 MCF/HR	Natural Gas
104	BATCH HOUSE FEED	20.000 Tons/HR	GLASS PULLED
104A	BATCH HOUSE CULLET PILES	20.200 Tons/HR	GLASS PULLED
105A	FORMING / FINISHING LINES FURNACE 1	17.100 MMBTU/HR	
		16.765 MCF/HR	Natural Gas
105B	FORMING/FINISHING LINES FURNACE 3	24.800 MMBTU/HR	
		24.314 MCF/HR	Natural Gas
106A	HOT END TREATMENT FURNACE 1	20.200 Tons/HR	GLASS PULLED
106B	HOT END TREATMENT FURNACE 3	20.200 Tons/HR	GLASS PULLED
107A	MOLD SWAB FURNACE 1	20.200 Tons/HR	GLASS PULLED
107B	MOLD SWAB FURNACE 3	20.200 Tons/HR	GLASS PULLED
108	MISCELLANEOUS NATURAL GAS USAGE	16.701 MMBTU/HR	
		16,374.000 CF/HR	Natural Gas
109	THREE DEGREASER UNITS	15.000 Gal/HR	MINERAL SPIRITS
110	EMERGENCY GENERATOR	69.300 Gal/HR	Diesel Fuel
112	GASOLINE STORAGE TANK	N/A	GASOLINE
C104	BIN 1A DUST COLLECTOR		
C104C	TANK 3 DAY BIN DUST COLLECTOR		
C104D	DOLOMITE STORAGE BIN DUST COLLECTOR		
FML001	NATURAL GAS		
FML002	DIESEL FUEL		
S030	FUGITIVE EMISSIONS		
S101	#1 FURNACE STACK		
S103	#3 FURNACE STACK		
S104	BIN 1A DUST COLLECTOR STACK		
S104C	TANK 3 DAY BIN DUST COLLECTOR STACK		
S104D	DOLOMITE STORAGE BIN DUST COLLECTOR STACK		
S110	STACK FROM EMERGENCY GENERATOR		
Z104A	FUGITIVES FROM BATCH HOUSE CULLET PILES		
Z105	ROOF VENTS		
Z108	STACK FROM MISC. NATURAL GAS USAGE		
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Z112	FUGITIVES FROM GASOLINE TANK		

PERMIT MAPS



PERMIT MAPS





PERMIT MAPS



**SECTION B. General Title V Requirements****#001 [25 Pa. Code § 121.1]****Definitions**

Words and terms that are not otherwise defined in this permit shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 121.7]**Prohibition of Air Pollution**

No person may permit air pollution as that term is defined in the act.

#003 [25 Pa. Code § 127.512(c)(4)]**Property Rights**

This permit does not convey property rights of any sort, or any exclusive privileges.

#004 [25 Pa. Code § 127.446(a) and (c)]**Permit Expiration**

This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit. The terms and conditions of the expired permit shall automatically continue pending issuance of a new Title V permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.

#005 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446(e), 127.503 & 127.704(b)]**Permit Renewal**

(a) An application for the renewal of the Title V permit shall be submitted to the Department at least six (6) months, and not more than 18 months, before the expiration date of this permit. The renewal application is timely if a complete application is submitted to the Department's Regional Air Manager within the timeframe specified in this permit condition.

(b) The application for permit renewal shall include the current permit number, the appropriate permit renewal fee, a description of any permit revisions and off-permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.

(c) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413. The application for renewal of the Title V permit shall also include submission of compliance review forms which have been used by the permittee to update information submitted in accordance with either 25 Pa. Code § 127.412(b) or § 127.412(j).

(d) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information during the permit renewal process. The permittee shall also promptly provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

#006 [25 Pa. Code §§ 127.450(a)(4) & 127.464(a)]**Transfer of Ownership or Operational Control**

(a) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership or operational control of the source shall be treated as an administrative amendment if:

- (1) The Department determines that no other change in the permit is necessary;
- (2) A written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee; and,
- (3) A compliance review form has been submitted to the Department and the permit transfer has been approved by

**SECTION B. General Title V Requirements**

the Department.

(b) In accordance with 25 Pa. Code § 127.464(a), this permit may not be transferred to another person except in cases of transfer-of-ownership which are documented and approved to the satisfaction of the Department.

#007 [25 Pa. Code § 127.513, 35 P.S. § 4008 and § 114 of the CAA]**Inspection and Entry**

(a) Upon presentation of credentials and other documents as may be required by law for inspection and entry purposes, the permittee shall allow the Department of Environmental Protection or authorized representatives of the Department to perform the following:

- (1) Enter at reasonable times upon the permittee's premises where a Title V source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;
- (2) Have access to and copy or remove, at reasonable times, records that are kept under the conditions of this permit;
- (3) Inspect at reasonable times, facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;
- (4) Sample or monitor, at reasonable times, substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.

(b) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act.

(c) Nothing in this permit condition shall limit the ability of the EPA to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#008 [25 Pa. Code §§ 127.25, 127.444, & 127.512(c)(1)]**Compliance Requirements**

(a) The permittee shall comply with the conditions of this permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one (1) or more of the following:

- (1) Enforcement action
- (2) Permit termination, revocation and reissuance or modification
- (3) Denial of a permit renewal application

(b) A person may not cause or permit the operation of a source, which is subject to 25 Pa. Code Article III, unless the source(s) and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued to the source are operated and maintained in accordance with specifications in the applications and the conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to 25 Pa. Code Chapter 127 in a manner inconsistent with good operating practices.

(c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this Title V permit.

#009 [25 Pa. Code § 127.512(c)(2)]**Need to Halt or Reduce Activity Not a Defense**

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

**SECTION B. General Title V Requirements****#010 [25 Pa. Code §§ 127.411(d) & 127.512(c)(5)]****Duty to Provide Information**

(a) The permittee shall furnish to the Department, within a reasonable time, information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit.

(b) Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to keep by this permit, or for information claimed to be confidential, the permittee may furnish such records directly to the Administrator of EPA along with a claim of confidentiality.

#011 [25 Pa. Code §§ 127.463, 127.512(c)(3) & 127.542]**Reopening and Revising the Title V Permit for Cause**

(a) This Title V permit may be modified, revoked, reopened and reissued or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay a permit condition.

(b) This permit may be reopened, revised and reissued prior to expiration of the permit under one or more of the following circumstances:

(1) Additional applicable requirements under the Clean Air Act or the Air Pollution Control Act become applicable to a Title V facility with a remaining permit term of three (3) or more years prior to the expiration date of this permit. The Department will revise the permit as expeditiously as practicable but not later than 18 months after promulgation of the applicable standards or regulations. No such revision is required if the effective date of the requirement is later than the expiration date of this permit, unless the original permit or its terms and conditions has been extended.

(2) Additional requirements, including excess emissions requirements, become applicable to an affected source under the acid rain program. Upon approval by the Administrator of EPA, excess emissions offset plans for an affected source shall be incorporated into the permit.

(3) The Department or the EPA determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

(4) The Department or the Administrator of EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

(c) Proceedings to revise this permit shall follow the same procedures which apply to initial permit issuance and shall affect only those parts of this permit for which cause to revise exists. The revision shall be made as expeditiously as practicable.

(d) Regardless of whether a revision is made in accordance with (b)(1) above, the permittee shall meet the applicable standards or regulations promulgated under the Clean Air Act within the time frame required by standards or regulations.

#012 [25 Pa. Code § 127.543]**Reopening a Title V Permit for Cause by EPA**

As required by the Clean Air Act and regulations adopted thereunder, this permit may be modified, reopened and reissued, revoked or terminated for cause by EPA in accordance with procedures specified in 25 Pa. Code § 127.543.

#013 [25 Pa. Code § 127.522(a)]**Operating Permit Application Review by the EPA**

The applicant may be required by the Department to provide a copy of the permit application, including the compliance plan, directly to the Administrator of the EPA. Copies of title V permit applications to EPA, pursuant to 25 PA Code §127.522(a), shall be submitted, if required, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

**SECTION B. General Title V Requirements****#014 [25 Pa. Code § 127.541]****Significant Operating Permit Modifications**

When permit modifications during the term of this permit do not qualify as minor permit modifications or administrative amendments, the permittee shall submit an application for significant Title V permit modifications in accordance with 25 Pa. Code § 127.541. Notifications to EPA, pursuant to 25 PA Code §127.522(a), if required, shall be submitted, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

#015 [25 Pa. Code §§ 121.1 & 127.462]**Minor Operating Permit Modifications**

The permittee may make minor operating permit modifications (as defined in 25 Pa. Code §121.1), on an expedited basis, in accordance with 25 Pa. Code §127.462 (relating to minor operating permit modifications). Notifications to EPA, pursuant to 25 PA Code §127.462(c), if required, shall be submitted, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

#016 [25 Pa. Code § 127.450]**Administrative Operating Permit Amendments**

(a) The permittee may request administrative operating permit amendments, as defined in 25 Pa. Code §127.450(a). Copies of request for administrative permit amendment to EPA, pursuant to 25 PA Code §127.450(c)(1), if required, shall be submitted to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

(b) Upon final action by the Department granting a request for an administrative operating permit amendment covered under §127.450(a)(5), the permit shield provisions in 25 Pa. Code § 127.516 (relating to permit shield) shall apply to administrative permit amendments incorporated in this Title V Permit in accordance with §127.450(c), unless precluded by the Clean Air Act or the regulations thereunder.

#017 [25 Pa. Code § 127.512(b)]**Severability Clause**

The provisions of this permit are severable, and if any provision of this permit is determined by the Environmental Hearing Board or a court of competent jurisdiction, or US EPA to be invalid or unenforceable, such a determination will not affect the remaining provisions of this permit.

#018 [25 Pa. Code §§ 127.704, 127.705 & 127.707]**Fee Payment**

(a) The permittee shall pay fees to the Department in accordance with the applicable fee schedules in 25 Pa. Code Chapter 127, Subchapter I (relating to plan approval and operating permit fees). The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

(b) Emission Fees. The permittee shall, on or before September 1st of each year, pay applicable annual Title V emission fees for emissions occurring in the previous calendar year as specified in 25 Pa. Code § 127.705. The permittee is not required to pay an emission fee for emissions of more than 4,000 tons of each regulated pollutant emitted from the facility.

(c) As used in this permit condition, the term "regulated pollutant" is defined as a VOC, each pollutant regulated under Sections 111 and 112 of the Clean Air Act and each pollutant for which a National Ambient Air Quality Standard has been promulgated, except that carbon monoxide is excluded.

**SECTION B. General Title V Requirements**

(d) Late Payment. Late payment of emission fees will subject the permittee to the penalties prescribed in 25 Pa. Code § 127.707 and may result in the suspension or termination of the Title V permit. The permittee shall pay a penalty of fifty percent (50%) of the fee amount, plus interest on the fee amount computed in accordance with 26 U.S.C.A. § 6621(a)(2) from the date the emission fee should have been paid in accordance with the time frame specified in 25 Pa. Code § 127.705(c).

(e) The permittee shall pay an annual operating permit maintenance fee according to the following fee schedule established in 25 Pa. Code § 127.704(d) on or before December 31 of each year for the next calendar year.

- (1) Eight thousand dollars (\$8,000) for calendar years 2021—2025.
- (2) Ten thousand dollars (\$10,000) for calendar years 2026—2030.
- (3) Twelve thousand five hundred dollars (\$12,500) for the calendar years beginning with 2031.

#019 [25 Pa. Code §§ 127.14(b) & 127.449]**Authorization for De Minimis Emission Increases**

(a) This permit authorizes de minimis emission increases from a new or existing source in accordance with 25 Pa. Code §§ 127.14 and 127.449 without the need for a plan approval or prior issuance of a permit modification. The permittee shall provide the Department with seven (7) days prior written notice before commencing any de minimis emissions increase that would result from either: (1) a physical change of minor significance under § 127.14(c)(1); or (2) the construction, installation, modification or reactivation of an air contamination source. The written notice shall:

- (1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.
- (2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

The Department may disapprove or condition de minimis emission increases at any time.

(b) Except as provided below in (c) and (d) of this permit condition, the permittee is authorized during the term of this permit to make de minimis emission increases (expressed in tons per year) up to the following amounts without the need for a plan approval or prior issuance of a permit modification:

- (1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.
- (2) One ton of NO_x from a single source during the term of the permit and 5 tons of NO_x at the facility during the term of the permit.
- (3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.
- (4) Six-tenths of a ton of PM₁₀ from a single source during the term of the permit and 3.0 tons of PM₁₀ at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.
- (5) One ton of VOCs from a single source during the term of the permit and 5.0 tons of VOCs at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.

(c) In accordance with § 127.14, the permittee may install the following minor sources without the need for a plan approval:

- (1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.
- (2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.

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(3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility, liquefied petroleum gas or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code § 123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.

(4) Space heaters which heat by direct heat transfer.

(5) Laboratory equipment used exclusively for chemical or physical analysis.

(6) Other sources and classes of sources determined to be of minor significance by the Department.

(d) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:

(1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (b)(4) and (5) of this permit condition.

(2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.

(3) Violate any applicable requirement of the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.

(4) Changes which are modifications under any provision of Title I of the Clean Air Act and emission increases which would exceed the allowable emissions level (expressed as a rate of emissions or in terms of total emissions) under the Title V permit.

(e) Unless precluded by the Clean Air Act or the regulations thereunder, the permit shield described in 25 Pa. Code § 127.516 (relating to permit shield) shall extend to the changes made under 25 Pa. Code § 127.449 (relating to de minimis emission increases).

(f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.

(g) Except for de minimis emission increases allowed under this permit, 25 Pa. Code § 127.449, or sources and physical changes meeting the requirements of 25 Pa. Code § 127.14, the permittee is prohibited from making physical changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.

(h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

#020 [25 Pa. Code §§ 127.11a & 127.215]**Reactivation of Sources**

(a) The permittee may reactivate a source at the facility that has been out of operation or production for at least one year, but less than or equal to five (5) years, if the source is reactivated in accordance with the requirements of 25 Pa. Code §§ 127.11a and 127.215. The reactivated source will not be considered a new source.

(b) A source which has been out of operation or production for more than five (5) years but less than 10 years may be reactivated and will not be considered a new source if the permittee satisfies the conditions specified in 25 Pa. Code § 127.11a(b).

#021 [25 Pa. Code §§ 121.9 & 127.216]**Circumvention**

(a) The owner of this Title V facility, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the

**SECTION B. General Title V Requirements**

phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this permit, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#022 [25 Pa. Code §§ 127.402(d) & 127.513(1)]**Submissions**

(a) Reports, test data, monitoring data, notifications and requests for renewal of the permit shall be submitted to the:

Regional Air Program Manager
PA Department of Environmental Protection
(At the address given on the permit transmittal letter, or otherwise notified)

(b) Any report or notification for the EPA Administrator or EPA Region III should be addressed to:

Enforcement & Compliance Assurance Division
Air, RCRA and Toxics Branch (3ED21)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, PA 19103-2852

The Title V compliance certification shall be emailed to EPA at R3_APD_Permits@epa.gov.

(c) An application, form, report or compliance certification submitted pursuant to this permit condition shall contain certification by a responsible official as to truth, accuracy, and completeness as required under 25 Pa. Code § 127.402(d). Unless otherwise required by the Clean Air Act or regulations adopted thereunder, this certification and any other certification required pursuant to this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

#023 [25 Pa. Code §§ 127.441(c) & 127.463(e); Chapter 139; & 114(a)(3), 504(b) of the CAA]**Sampling, Testing and Monitoring Procedures**

(a) The permittee shall perform the emissions monitoring and analysis procedures or test methods for applicable requirements of this Title V permit. In addition to the sampling, testing and monitoring procedures specified in this permit, the Permittee shall comply with any additional applicable requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) The sampling, testing and monitoring required under the applicable requirements of this permit, shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139 unless alternative methodology is required by the Clean Air Act (including §§ 114(a)(3) and 504(b)) and regulations adopted thereunder.

#024 [25 Pa. Code §§ 127.511 & Chapter 135]**Recordkeeping Requirements**

(a) The permittee shall maintain and make available, upon request by the Department, records of required monitoring information that include the following:

- (1) The date, place (as defined in the permit) and time of sampling or measurements.
- (2) The dates the analyses were performed.
- (3) The company or entity that performed the analyses.
- (4) The analytical techniques or methods used.

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(5) The results of the analyses.

(6) The operating conditions as existing at the time of sampling or measurement.

(b) The permittee shall retain records of the required monitoring data and supporting information for at least five (5) years from the date of the monitoring sample, measurement, report or application. Supporting information includes the calibration data and maintenance records and original strip-chart recordings for continuous monitoring instrumentation, and copies of reports required by the permit.

(c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

#025 [25 Pa. Code §§ 127.411(d), 127.442, 127.463(e) & 127.511(c)]**Reporting Requirements**

(a) The permittee shall comply with the reporting requirements for the applicable requirements specified in this Title V permit. In addition to the reporting requirements specified herein, the permittee shall comply with any additional applicable reporting requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) Pursuant to 25 Pa. Code § 127.511(c), the permittee shall submit reports of required monitoring at least every six (6) months unless otherwise specified in this permit. Instances of deviations (as defined in 25 Pa. Code § 121.1) from permit requirements shall be clearly identified in the reports. The reporting of deviations shall include the probable cause of the deviations and corrective actions or preventative measures taken, except that sources with continuous emission monitoring systems shall report according to the protocol established and approved by the Department for the source. The required reports shall be certified by a responsible official.

(c) Every report submitted to the Department under this permit condition shall comply with the submission procedures specified in Section B, Condition #022(c) of this permit.

(d) Any records, reports or information obtained by the Department or referred to in a public hearing shall be made available to the public by the Department except for such records, reports or information for which the permittee has shown cause that the documents should be considered confidential and protected from disclosure to the public under Section 4013.2 of the Air Pollution Control Act and consistent with Sections 112(d) and 114(c) of the Clean Air Act and 25 Pa. Code § 127.411(d). The permittee may not request a claim of confidentiality for any emissions data generated for the Title V facility.

#026 [25 Pa. Code § 127.513]**Compliance Certification**

(a) One year after the date of issuance of the Title V permit, and each year thereafter, unless specified elsewhere in the permit, the permittee shall submit to the Department and EPA Region III a certificate of compliance with the terms and conditions in this permit, for the previous year, including the emission limitations, standards or work practices. This certification shall include:

- (1) The identification of each term or condition of the permit that is the basis of the certification.
- (2) The compliance status.
- (3) The methods used for determining the compliance status of the source, currently and over the reporting period.
- (4) Whether compliance was continuous or intermittent.

(b) The compliance certification shall be postmarked or hand-delivered no later than thirty days after each anniversary of the date of issuance of this Title V Operating Permit, or on the submittal date specified elsewhere in the permit, to the Department in accordance with the submission requirements specified in Section B, Condition #022 of this permit. The Title V compliance certification shall be emailed to EPA at R3_APD_Permits@epa.gov.

**SECTION B. General Title V Requirements****#027 [25 Pa. Code § 127.3]****Operational Flexibility**

The permittee is authorized to make changes within the Title V facility in accordance with the following provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements of Section 502(b)(10) of the Clean Air Act and Section 6.1(i) of the Air Pollution Control Act:

- (1) Section 127.14 (relating to exemptions)
- (2) Section 127.447 (relating to alternative operating scenarios)
- (3) Section 127.448 (relating to emissions trading at facilities with federally enforceable emissions caps)
- (4) Section 127.449 (relating to de minimis emission increases)
- (5) Section 127.450 (relating to administrative operating permit amendments)
- (6) Section 127.462 (relating to minor operating permit amendments)
- (7) Subchapter H (relating to general plan approvals and operating permits)

#028 [25 Pa. Code §§ 127.441(d), 127.512(i) and 40 CFR Part 68]**Risk Management**

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

(b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the Title V facility. The permittee shall submit the RMP to the federal Environmental Protection Agency according to the following schedule and requirements:

- (1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:
 - (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
 - (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

(d) If the Title V facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:

- (1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,
- (2) Certify that the Title V facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.

**SECTION B. General Title V Requirements**

(e) If the Title V facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for five (5) years in accordance with 40 CFR § 68.200.

(f) When the Title V facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if:

(1) The permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.

(2) The permittee fails to submit a compliance schedule or include a statement in the compliance certification required under Section B, Condition #026 of this permit that the Title V facility is in compliance with the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68, and 25 Pa. Code § 127.512(i).

#029 [25 Pa. Code § 127.512(e)]**Approved Economic Incentives and Emission Trading Programs**

No permit revision shall be required under approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this Title V permit.

#030 [25 Pa. Code §§ 127.516, 127.450(d), 127.449(f) & 127.462(g)]**Permit Shield**

(a) The permittee's compliance with the conditions of this permit shall be deemed in compliance with applicable requirements (as defined in 25 Pa. Code § 121.1) as of the date of permit issuance if either of the following applies:

(1) The applicable requirements are included and are specifically identified in this permit.

(2) The Department specifically identifies in the permit other requirements that are not applicable to the permitted facility or source.

(b) Nothing in 25 Pa. Code § 127.516 or the Title V permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act, including the authority of the Administrator of the EPA provided thereunder.

(2) The liability of the permittee for a violation of an applicable requirement prior to the time of permit issuance.

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act.

(4) The ability of the EPA to obtain information from the permittee under Section 114 of the Clean Air Act.

(c) Unless precluded by the Clean Air Act or regulations thereunder, final action by the Department incorporating a significant permit modification in this Title V Permit shall be covered by the permit shield at the time that the permit containing the significant modification is issued.

#031 [25 Pa. Code §135.3]**Reporting**

(a) The permittee shall submit by March 1 of each year an annual emissions report for the preceding calendar year. The report shall include information for all active previously reported sources, new sources which were first operated during the preceding calendar year, and sources modified during the same period which were not previously reported. All air emissions from the facility should be estimated and reported.

(b) A source owner or operator may request an extension of time from the Department for the filing of an annual emissions report, and the Department may grant the extension for reasonable cause.

#032 [25 Pa. Code §135.4]**Report Format**

Emissions reports shall contain sufficient information to enable the Department to complete its emission inventory. Emissions reports shall be made by the source owner or operator in a format specified by the Department.

**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

(a) No person may permit the emission into the outdoor atmosphere of a fugitive air contaminant from a source other than the following:

- (1) Construction or demolition of buildings or structures.
- (2) Grading, paving and maintenance of roads and streets.
- (3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.
- (4) Clearing of land.
- (5) Stockpiling of materials.
- (6) Open burning operations.
- (7) - (8) [Do not apply]
- (9) Sources and classes of sources other than those identified in paragraphs (1)—(8), for which the operator has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (i) The emissions are of minor significance with respect to causing air pollution.
 - (ii) The emissions are not preventing or interfering with the attainment or maintenance of an ambient air quality standard.

(b) An application form for requesting a determination under either subsection (a)(9) or § 129.15(c) is available from the Department. In reviewing these applications, the Department may require the applicant to supply information including, but not limited to, a description of proposed control measures, characteristics of emissions, quantity of emissions and ambient air quality data and analysis showing the impact of the source on ambient air quality. The applicant is required to demonstrate that the requirements of subsections (a)(9) and (c) and § 123.2 [Condition #002, below] (relating to fugitive particulate matter) or of the requirements of § 129.15(c) have been satisfied. Upon such demonstration, the Department will issue a determination, in writing, either as an operating permit condition, for those sources subject to permit requirements under the act, or as an order containing appropriate conditions and limitations.

(c) [Printed under Work Practice Requirements in this section of permit.]

(d) [Does not apply]

002 [25 Pa. Code §123.2]**Fugitive particulate matter**

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in § 123.1(a)(1)—(9) [Condition #001, above] (relating to prohibition of certain fugitive emissions) if the emissions are visible at the point the emissions pass outside the person's property.

003 [25 Pa. Code §123.31]**Limitations**

(a) [Printed under Work Practice Requirements in this section of permit.]

(b) A person may not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source, in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

**SECTION C. Site Level Requirements**

(c) [Does not apply]

004 [25 Pa. Code §123.41]**Limitations**

A person may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

- (1) Equal to or greater than 20% for a period or periods aggregating more than 3 minutes in any 1 hour.
- (2) Equal to or greater than 60% at any time.

005 [25 Pa. Code §123.42]**Exceptions**

The limitations of § 123.41 [Condition #004, above] (relating to limitations) shall not apply to a visible emission in any of the following instances:

- (1) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (2) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (3) When the emission results from sources specified in § 123.1 (a)(1)—(9) [Condition #001, above] (relating to prohibition of certain fugitive emissions).
- (4) [Does not apply]

II. TESTING REQUIREMENTS.**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The Department reserves the right to require exhaust stack testing of any source as necessary to verify emissions for purposes including determining the correct emission fee, malfunctions, or determining compliance with any applicable requirement.

[Authority for this condition is also derived from 25 Pa.Code Section 129.92]

III. MONITORING REQUIREMENTS.**# 007 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

- (1) A device approved by the Department and maintained to provide accurate opacity measurements.
- (2) Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of devices approved by the Department.

008 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

- (a) The permittee shall conduct daily monitoring of the facility property, while the plant is in operation, to observe for the presence of fugitive emissions and visible emissions, being emitted into the outdoor atmosphere.
- (b) All detected fugitive emissions and visible emissions shall be reported to the responsible manager.

**SECTION C. Site Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 009 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

(a) The permittee shall maintain a record of the daily monitoring conducted to determine the presence of fugitive emissions and visible emissions.

(b) This recordkeeping shall contain a listing or notation of any and all sources of fugitive emissions duration of the emission and the corrective action taken to abate the deviation and prevent future occurrences.

010 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

The permittee can modify the mixture of pollutants regulated under Section 112 of the Clean Air Act (42 U.S.C.A. 7412) which are VOC or PM10 so long as the emission limitations of this permit are not violated. The permittee shall keep a log which identifies the mixture of pollutants regulated under section 112 and report the changes in the mixture of pollutants regulated under Section 112 with the next report required to be provided to the Department.

011 [25 Pa. Code §135.5]**Recordkeeping**

Source owners or operators shall maintain and make available upon request by the Department records including computerized records that may be necessary to comply with §§ 135.3 and 135.21 (relating to reporting; and emission statements). These may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

V. REPORTING REQUIREMENTS.**# 012 [25 Pa. Code §135.21]****Emission statements**

(a) Except as provided in subsection (d), this section applies to stationary sources or facilities:

(1) [Does not apply]

(2) Not located in an area described in paragraph (1) and included in the Northeast Ozone Transport Region which emit or have the potential to emit 100 tons or more of oxides of nitrogen or 50 tons or more of VOC per year.

(b) The owner or operator of each stationary source emitting oxides of nitrogen or VOCs shall provide the Department with a statement, in a form as the Department may prescribe, for classes or categories of sources, showing the actual emissions of oxides of nitrogen and VOCs from that source for each reporting period, a description of the method used to calculate the emissions and the time period over which the calculation is based. The statement shall contain a certification by a company officer or the plant manager that the information contained in the statement is accurate.

(c) Annual emission statements are due by March 1 for the preceding calendar year beginning with March 1, 1993, for calendar year 1992 and shall provide data consistent with requirements and guidance developed by the EPA. The guidance document is available from: United States Environmental Protection Agency, 401 M Street, S.W., Washington, D.C. 20460. The Department may require more frequent submittals if the Department determines that one or more of the following applies:

(1) A more frequent submission is required by the EPA.

(2) Analysis of the data on a more frequent basis is necessary to implement the requirements of the act.

(d) Subsection (a) does not apply to a class or category of stationary sources which emits less than 25 tons per year of VOCs or oxides of nitrogen, if the Department in its submissions to the Administrator of the EPA under section 182(a)(1) or (3)(B)(ii) of the Clean Air Act (42 U.S.C.A. § 7511a(a)(1) or (3)(B)(ii)) provides an inventory of emissions from the class or category of sources based on the use of the emission factors established by the Administrator or other methods acceptable to the Administrator. The Department will publish in the Pennsylvania Bulletin a notice of the lists of classes or categories of sources which are exempt from the emission statement requirement under this subsection.

**SECTION C. Site Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 013 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

[25 Pa. Code § 123.1(c):]

(c) A person responsible for any source specified in subsections (a)(1)—(7) or (9) [Condition #001, above] shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions include, but not be limited to, the following:

- (1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads or the clearing of land.
- (2) Application of asphalt, oil, water or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (3) Paving and maintenance of roadways.
- (4) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

014 [25 Pa. Code §123.31]**Limitations**

[25 Pa. Code § 123.31(a):]

(a) Limitations are as follows:

- (1) If control of malodorous air contaminants is required under subsection (b) [Condition #003, above], emissions shall be incinerated at a minimum of 1200°F for at least 0.3 second prior to their emission into the outdoor atmosphere.
- (2) Techniques other than incineration may be used to control malodorous air contaminants if such techniques are equivalent to or better than the required incineration in terms of control of the odor emissions and are approved in writing by the Department.

015 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

The permittee shall maintain and operate the sources and all associated control devices contained in this permit in accordance with the manufacturers' specifications and in a manner consistent with good air pollution control practices.

016 [25 Pa. Code §129.14]**Open burning operations**

(a) [Does not apply]

(b) Outside of air basins. No person may permit the open burning of material in an area outside of air basins in a manner that:

- (1) The emissions are visible, at any time, at the point such emissions pass outside the property of the person on whose land the open burning is being conducted.
- (2) Malodorous air contaminants from the open burning are detectable outside the property of the person on whose land the open burning is being conducted.
- (3) The emissions interfere with the reasonable enjoyment of life or property.
- (4) The emissions cause damage to vegetation or property.
- (5) The emissions are or may be deleterious to human or animal health.

**SECTION C. Site Level Requirements**

(c) Exceptions. The requirements of subsections (a) and (b) do not apply where the open burning operations result from:

- (1) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
- (2) Any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (3) A fire set for the prevention and control of disease or pests, when approved by the Department.
- (4) - (5) [Do not apply]
- (6) A fire set solely for recreational or ceremonial purposes.
- (7) A fire set solely for cooking food.

(d) Clearing and grubbing wastes. The following is applicable to clearing and grubbing wastes:

- (1) As used in this subsection the following terms shall have the following meanings:

Air curtain destructor—A mechanical device which forcefully projects a curtain of air across a pit in which open burning is being conducted so that combustion efficiency is increased and smoke and other particulate matter are contained.

Clearing and grubbing wastes—Trees, shrubs and other native vegetation which are cleared from land during or prior to the process of construction. The term does not include demolition wastes and dirt laden roots.

- (2) [Does not apply]

(3) Subsection (b) notwithstanding clearing and grubbing wastes may be burned outside of an air basin, subject to the following limitations:

- (i) Upon receipt of a complaint or determination by the Department that an air pollution problem exists, the Department may order that the open burning cease or comply with subsection (b).
- (ii) Authorization for open burning under this paragraph does not apply to clearing and grubbing wastes transported from an air basin for disposal outside of an air basin.

(4) During an air pollution episode, open burning is limited by Chapter 137 (relating to air pollution episodes) and shall cease as specified in that chapter.

[This permit does not constitute authorization to burn solid waste pursuant to Section 610(3) of Solid Waste Management Act, 35 P.S. Section 6018.610(3), or any other provision of Solid Waste Management Act.]

VII. ADDITIONAL REQUIREMENTS.

017 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Plan Approval 42-028E]

(a) The facility generated 19.4 tons of PM-2.5, 63.6 tons of NO_x, 42.8 tons of SO_x, and 2.5 tons of VOC Credits with the shutdown of Furnace #2 (Source 102).

1. The credits maybe used for internal offsetting only.
2. These credits may not be sold as stated in the Global Consent Decree (GCD) dated March 7, 2010, in paragraph 27(a).

VIII. COMPLIANCE CERTIFICATION.



SECTION C. Site Level Requirements

The permittee shall submit within thirty days of 01/01/2014 a certificate of compliance with all permit terms and conditions set forth in this Title V permit as required under condition #026 of section B of this permit, and annually thereafter.

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

***** Permit Shield In Effect *****

**SECTION D. Source Level Requirements**

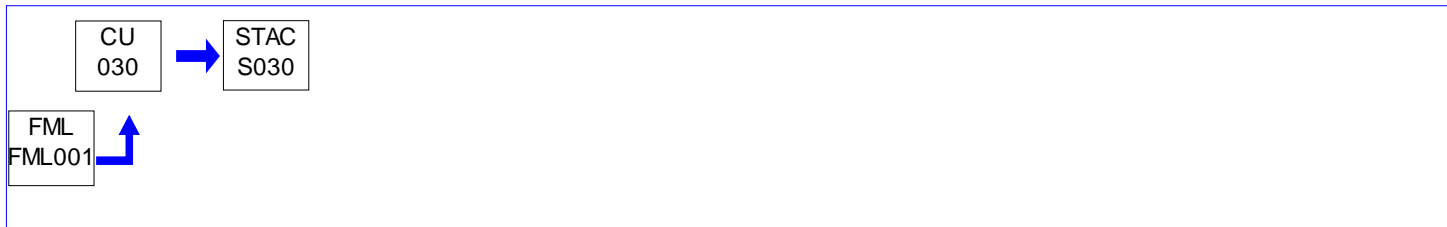
Source ID: 030

Source Name: BOILERS

Source Capacity/Throughput: 0.775 MMBTU/HR

760.000 CF/HR

Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §123.22]

Combustion units

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from a combustion unit in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

Fuel Restriction(s).

002 [25 Pa. Code §127.512]

Operating permit terms and conditions.

This source shall only be fueled by natural gas.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 101

Source Name: FURNACE 1

Source Capacity/Throughput:

8.500 Tons/HR

GLASS

41.600 MCF/HR

Natural Gas

Conditions for this source occur in the following groups: 1 PART 63 SUBPART 6S
2 PART 60 SUBPART CC
4 GLASS MELTING NOX

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.13]****Processes**

No person may permit the emission into the outdoor atmosphere of particulate matter from any process listed in the following table, at any time, either in excess of the rate calculated by the formula or in such a manner that the concentration of particulate matter in the effluent gas exceeds .02 grains per dry standard cubic foot, whichever is greater:

Table.

Process factor is 50 times the fill rate (lbs/ton) for glass production melting furnace.

Formula:

$$A = .76E^{(0.42)}$$

where:

A = Allowable emissions in pounds per hour.

E = Emission index = F x W pounds per hour.

F = Process factor in pounds per unit, and

W = Production or charging rate in units per hour.

The factor F shall be obtained from the table. The units for F and W shall be compatible.

In this source A = 10.44 lbs/hr. where F = 50 times the fill rate (lbs/ton) and W = 10.24 tons/hr.

002 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

[Plan Approval 42-028F]

The emissions shall not exceed the following:

1. VOC: 3.4 #/hr
2. VOC: 14.8 tpy based on a rolling 12-month total
3. CO: 55.2 #/hr
4. CO: 242.0 tpy based on a rolling 12-month total

**SECTION D. Source Level Requirements****# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Plan Approval 42-028G & Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

(a) Normal Operation (Flint): Furnace No. 1 shall not emit more than 2.4 # SO₂ per ton of glass produced on a 30-day Rolling Average as measured using an SO₂ CEMS, except during the following periods: Abnormally Low Production Rate Days; Color Transition; Furnace Startup; Malfunction of the Furnace; and Maintenance of the Furnace.

[Plan Approval 42-028G & Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

(b) Normal Operation (Colored): Furnace No. 1 shall not emit more than 2.4 # SO₂ per ton of glass produced on a 30-day Rolling Average as measured using an SO₂ CEMS, except during the following periods: Abnormally Low Production Rate Days; Color Transition; Furnace Startup; Malfunction of the Furnace; and Maintenance of the Furnace.

004 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

[Plan Approval 42-028G & Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

(a) Abnormally Low Production Day (Flint): Furnace No. 1 SO₂ Limit during Abnormally Low Production Rate Days the facility may elect to exclude - all Abnormally Low Production Rate Days from the Emission Rate 30-day Rolling Average when Furnace No. 1 is operating at an Abnormally Low Production Rate. During these days, a CEMS shall be used to demonstrate compliance on a 24-hour Block Average with the following pound per day limit for the Furnace(s) operating at an Abnormally Low Production Rate: 501 #/day of SO₂ as calculated by $(2.4 \text{ # SO}_2/\text{ton glass}) \times (P/0.35)$ where $P = 73$.

[Plan Approval 42-028G & Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

(b) Abnormally Low Production Day (Colored): Furnace No. 1 SO₂ Limit during Abnormally Low Production Rate Days the facility may elect to exclude - all Abnormally Low Production Rate Days from the Emission Rate 30-day Rolling Average when Furnace No. 1 is operating at an Abnormally Low Production Rate. During these days, a CEMS shall be used to demonstrate compliance on a 24-hour Block Average with the following pound per day limit for the Furnace(s) operating at an Abnormally Low Production Rate: 501 #/day of SO₂ as calculated by $(2.4 \text{ # SO}_2/\text{ton glass}) \times (P/0.35)$ where $P = 73$.

005 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

[Plan Approval 42-028G & Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

Color Transition: Furnace No. 1 SO₂ Limit during Color Transition the facility may elect to exclude Operating Days during which a Color Transition is occurring from the Emission Rate 30-day Rolling Average when Furnace No. 1 has a Color Transition. During these days, a CEMS shall be used to demonstrate compliance on a 24-hour Block Average with the following pound per day limit when Furnace No. 1 has a Color Transition: 1,042 #/day of SO₂ as calculated by $2 \times (2.5 \text{ # SO}_2/\text{ton glass}) \times (P/0.35)$ where $P = 73$.

006 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

[Plan Approval 42-028G & Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

Furnace Malfunction: For any Operating Day where a Malfunction of the Furnace No. 1 system occurs for any period of time, the facility 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: 1,563 #/day SO₂ as calculated by $3 \times (2.5 \text{ # SO}_2/\text{ton glass}) \times (P/0.35)$ where $P = 73$.

007 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

[Plan Approval 42-028G & Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

**SECTION D. Source Level Requirements**

(a) Furnace Maintenance (Flint): For any Operating Day where Maintenance activities on Furnace No. 1 are performed, the facility 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:

$$\text{SO}_2 \text{ Maint Flint} = [\text{MH} \times (3 \times (2.5 \# \text{SO}_2/\text{ton glass}) \times (\text{P}/0.35)) + \text{NH} \times ((2.4 \# \text{SO}_2/\text{ton glass}) \times (\text{P}/0.35))] / 24$$

Where:

SO₂ Maint Flint = SO₂ emission limit for Furnace No. 1 during a Maintenance Day (Flint), in pounds per day.

P = Furnace-specific production threshold (73)

MH = Hours of Maintenance

NH = Normal Hours = 24 - MH

[Plan Approval 42-028G & Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

(b) Furnace Maintenance (Colored): For any Operating Day where Maintenance activities on Furnace No. 1 are performed, the facility 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:

$$\text{SO}_2 \text{ Maint Colored} = [\text{MH} \times (3 \times (2.5 \# \text{SO}_2/\text{ton glass}) \times (\text{P}/0.35)) + \text{NH} \times ((2.4 \# \text{SO}_2/\text{ton glass}) \times (\text{P}/0.35))] / 24$$

Where:

SO₂ Maint Colored = SO₂ emission limit for Furnace No. 1 during a Maintenance Day (Colored), in pounds per day.

P = Furnace-specific production threshold (73)

MH = Hours of Maintenance

NH = Normal Hours = 24 - MH

008 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Furnace No. 1 shall not emit more than 3.8 pounds of NOX per ton of glass produced on a 30-day Rolling Average as measured using a NOX CEMS, except during the following periods: Abnormally Low Production Rate Days; Furnace Startup; Malfunction of the Furnace; and Maintenance of the Furnace.

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #004]

[Compliance with the requirement in this streamlined permit condition assures compliance with the provision found in condition #003 in Plan Approval 42-028B]

009 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

NOX Limit during Abnormally Low Production Rate Days defined as 73 tons per day or lower for Furnace No. 1.

The facility may elect to exclude all Abnormally Low Production Rate Days shall be excluded 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: 793 lb/day.

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #005]

010 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

For any Operating Day where a Malfunction of the Furnace occurs for any period of time, the facility may elect to exclude the

**SECTION D. Source Level Requirements**

NOx emissions generated during those Operating Day (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 NOx pound per day limit: 2,379 lb/day.

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #006]

011 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

For any Operating Day where Maintenance activities on the Furnace are performed, the facility may elect to exclude the Maintenance Day from the Emission Rate 30-day Rolling Average. 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:

$$\text{NOX OEAS Maint} = (\text{MH} \times [3 \times \text{NOxOEAS Abn}] + \text{NH} \times [\text{NOxOEAS Abn}]) / 24$$

Where: NOX OEAS Maint = NOX emission limit for an OEAS-Equipped Furnace during a Maintenance Day, in pounds per day

NOX OEAS Abn = NOX emission limit for an OEAS-Equipped Furnace during an Abnormally Low Production Rate Day, in pounds per day

MH= Hours of Maintenance

NH = Normal Hours = 24-MH

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #007]

012 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Annual emissions from Furnace No.1 shall not exceed:

141 tons of NOx, calculated as a twelve month rolling sum

93 tons of SOx, calculated as a twelve month rolling sum

37 tons of Total PM, calculated as a twelve month rolling sum

[Plan Approval 42-028B, condition #013]

013 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The facility shall comply with the Total PM emission limit of 1.0 pound of total PM per ton of glass produced.

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #012]

014 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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.

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #015]

**SECTION D. Source Level Requirements****# 015 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

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. Stack testing shall be required to be performed only once during the life of each Title V permit renewal.

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #016]

016 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

The permittee shall maintain the following restriction for emission increase due to the addition of separate Shop 12 conveyor cooling air fan and subsequent production increase in Furnace #1.

On June 13, 2013, the Department approved the new conveyor cooling fan with an emission increase of 0.08 TPY of PM₁₀/PM_{2.5}, 0.2 tpy for SO_x, 0.32 tpy for NO_x, 0.02 tpy for CO, 0.05 tpy for H₂SO₄, and 0.02 tpy of VOC.

[From: RFD # 2938, Approved on 06/14/2012]

017 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

The permittee shall limit the electric boost on Furnace No. 1 to 2400 KVA.

[From RFD # 1866, approved date:12/09/2010]

Fuel Restriction(s).**# 018 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall only use Natural Gas as fuel and electric boost for Furnace No. 1.

[Plan Approval 42-028B, condition #018, and RFD #1866]

Throughput Restriction(s).**# 019 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Furnace No. 1 shall combust a maximum of 364.4 MMCF of natural gas annually, based on a twelve month rolling total.

[Plan Approval 42-028B, condition #019]

020 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The production rate from Furnace No. 1 shall not exceed 74,460 tons per year based on a twelve month rolling total.

[Plan Approval 42-028B, condition #020]

II. TESTING REQUIREMENTS.**# 021 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Plan Approval 42-028B, condition #025]

The permittee shall conduct an annual test for VOC, CO, Total PM, and Filterable Particulate.

**SECTION D. Source Level Requirements****# 022 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Compliance with Total PM limits shall be demonstrated by annual stack tests (once per calendar year).

Total PM shall be determined using EPA Method 5 and Method 202.

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-0128B, condition #023]

023 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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, Malfunction of the Furnace, Maintenance of the Furnace or Color Transition.

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #024]

024 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The following stack testing methods shall be used unless a different method is approved by the Department.

Pollutants	Stack Testing Method
Total PM	EPA Method 5 plus Method 202 or EPA Method 5 plus OTM 28
Total PM10	EPA Method 5 and OTM 28 or OTM 27 and OTM 28
Filterable PM	EPA Method 5
Total PM2.5	EPA Method 5 plus OTM 28 or OTM 27 and OTM 28
CO	EPA Method 10
SOx	EPA Method 6C
NOx	EPA Method 7E
VOC	EPA Method 25A
Opacity	EPA Method 9

[Plan Approval 42-028B, condition #027]

025 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

[Plan Approval 42-028B, condition #026]

(b) Within 60 days after achieving the normal production rate at which the affected source will be operated, but not later than 180 days after initial start-up of the source, a stack test shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection. The stack test shall be performed while the aforementioned source is operating at the maximum or normal rated capacity as stated on the application.

1. One paper copy plus one electronic copy of all source test submissions (notifications, protocols, reports, supplemental information, etc.) shall be sent to both PSIMS Administration in Central Office and to Regional Office AQ Program Manager.

Paper copies shall be sent using the following mailing addresses:

CENTRAL OFFICE:
Pennsylvania Department of Environmental Protection

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Attn: PSIMS Administrator
 P.O. Box 8468
 Harrisburg, PA 17105-8468

NORTHWEST REGIONAL OFFICE:
 Pennsylvania Department of Environmental Protection
 Attn: Air Quality Program Manager
 230 Chestnut St.
 Meadville, PA 16335

Electronic copies shall be sent to the following e-mail addresses:

CENTRAL OFFICE:
 RA-EPstacktesting@pa.gov

NORTHWEST REGIONAL OFFICE:
 RA-EPNWstacktesting@pa.gov

2. At least 90 days prior to performing a stack test, a protocol shall be submitted in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection. Submit the protocol via the instructions in (1). The protocol shall contain, at a minimum, location of sampling ports, planned production rates, and any other information applicable to the stack testing. Performing a stack test prior to Department approval of the protocol may invalidate the results.

3. At least 2 weeks prior to the test, the Department shall be informed, in writing, of the date and time of the test.

4. Within 60 days after completion of the test, the complete test report, including, but not limited to, production rates during testing, calculation methods and results, and any other applicable testing information that will allow for a complete review of the test and results, shall be submitted to the Department for approval. Submit the report via the instructions in (1).

5. Actions Related to Noncompliance Demonstrated by a Stack Test:

(i) When the results of a stack test performed in conformance with this Condition exceed the level specified in any condition of this approval, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to the Department, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. The Department shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to the Department within thirty (30) days of receipt of the notice of deficiency. The Department reserves the authority to use enforcement activities to resolve noncompliant stack tests.

(ii) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to the Department that retesting in one hundred and twenty (120) days is not practicable, the Department may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate approval conditions may be grounds for immediate revocation of the approval to operate the affected facility.

026 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

Compliance with the Sulfuric Acid Mist emission limit shall be demonstrated by a stack performed using Conditional Test Method 13A or B on all Furnaces. Stack testing shall be required to be performed once during the life of each Title V permit renewal.

III. MONITORING REQUIREMENTS.

027 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Continuous emission monitoring systems for nitrogen oxides (as NO_x), sulfur dioxide (SO₂), opacity, and their components

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must be approved by the Department and installed, operated, and maintained in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C and Revision No. 8 or the most recent version of the Department's Continuous Source Monitoring Manual, 274-0300-001. Proposals containing information as listed in the Phase I section of the most current revision of the Department's Continuous Source Monitoring Manual for CEMS must be submitted at least 3 months prior to start-up of Glass Furnace No. 1 after the installation of low NOx burners and the OEAS system. The CEM pollutants, units, averaging period, and standard shall be determined through the Phase I - Phase III certification process and shall be incorporated into the operating permit at a later date.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 139.101(1)(iv), 139.101(10) and 139.101(12).]

[Plan Approval 42-028B, condition #030]

028 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) The permittee shall perform the emissions monitoring analysis procedures or test methods required under an applicable requirement including procedures and methods under Sections 114(a)(3) (42 U.S.C.A.§§ 7414 (a)(3)) or 504(b) (42 U.S.C.A.§§ 7661c(b)) of the Clean Air Act.

(b) Unless otherwise required by this permit, the permittee shall comply with applicable monitoring, quality assurance, recordkeeping and reporting requirements of the Air Pollution Control Act, 25 Pa. Code, Subpart C, Article III (relating to air resources), including Chapter 139 (relating to sampling and testing). The permittee shall also comply with applicable requirements related to monitoring, quality assurance, reporting and recordkeeping required by the Clean Air Act including §§ 114(a)(3) and 504(b) and regulations adopted thereunder, unless otherwise required by this permit.

[Plan Approval 42-028B, condition #031]

029 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) Initial Application (Phase I): Proposal[s] containing information as listed in the Phase I section of the Department's Continuous Source Monitoring Manual for the CEMS[s] must be submitted at least 180 days prior to the planned initial source startup date.

(b) Performance Testing (Phase II): Testing as listed in the Phase II section of the Department's Continuous Source Monitoring Manual must be completed for the CEMS[s] no later than 180 days after initial source startup date and no later than 60 days after source achieves normal process capacity.

(c) Final Approval (Phase III): The final report of testing as listed in the Phase III section of the Department's Continuous Source Monitoring Manual must be submitted to the Bureau no later than 60 days after completion of testing.

(d) The owner or operator of the source shall not be issued an operating permit until the CEMS has received Phase III approval, in writing from the Department, when installation of a CEMS is made a condition of the plan approval. Until Phase III Department approval is obtained, operation shall be covered solely under condition of a plan approval.

[Plan Approval 42-028B, condition #032]

030 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

A NOx CEMS shall be installed on Furnace No. 1 by December 31, 2013.

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #033]

031 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

A NOx CEMS, if available, shall be used to demonstrate compliance with the NOx limit. If the Facility does not have a CEMS

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when it is required to meet the limit, compliance shall be demonstrated using data generated from annual stack tests complying with 40 CFR Part 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).

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #034]

032 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

A SO₂ CEMS shall be installed on Furnace No. 1 by December 31, 2009.

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #035]

033 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

A CEMS, if available, shall be used to demonstrate compliance with the SO₂ limits, using data generated by the SO₂ CEMS. If the Facility does not have a CEMS when it is required to meet the SO₂ emission limits, compliance shall be demonstrated using data generated from annual stack tests complying with 40 CFR Part 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).

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #036]

034 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

CEMS or COMS certification cannot occur during periods of Abnormally Low Production rate Days, Furnace Startup, Control Device Startup, Malfunction, Maintenance, or Color Transition.

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #037]

035 [25 Pa. Code §139.101]**General requirements.**

This section applies to monitoring systems as defined in the manual referenced in § 139.102(3) (relating to references), installations required or approved under Chapters 122, 124, 127 and 129 or in an order issued under section 4 of the act (35 P.S. § 4004).

(1) The submittal procedures specified in the publication entitled "Continuous Source Monitoring Manual," available from the Department shall be utilized to obtain Department approval. This publication includes:

- (i) Installation requirements.
- (ii) Performance specifications.
- (iii) Test procedures.
- (iv) Reporting requirements.

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(v) Quality assurance requirements.

(vi) Administrative procedures for obtaining Department approval.

(2) The monitoring system installation, certification and operation shall be conducted under the direct supervision of persons qualified by training and experience.

(3) The monitoring systems may be designed to monitor source emissions or stack emissions if the representativeness of emissions can be verified. The method of conversion of monitoring results to source or stack emissions shall be approved by the Department.

(4) The location of monitoring devices shall be approved by the Department prior to installation. The selection of the monitoring location shall utilize applicable criteria in the manual referenced in § 139.102(3). The Department has the authority to determine which of the criteria are applicable. The representativeness of the measurements at the chosen monitoring location shall be verified.

(5) The owner of a monitored source shall maintain records containing monitoring information and report data to the Department as specified in the manual referenced in § 139.102(3). The records shall be maintained for 5 years and be available for inspection by Department personnel.

(6) The owner of a monitored source shall provide permanent sampling facilities as specified in § 139.1 (relating to sampling facilities) to permit verification testing by the Department. For extractive monitors, calibration gas inlets shall be available as near as possible to the monitor probe inlet to permit the Department to verify calibration of the monitoring system. Facilities shall be approved by the Department prior to construction.

(7) Verification testing for monitoring systems shall be in accordance with Subchapter B (relating to monitoring duties of certain sources), and of the manual referenced in § 139.102(3).

(8) A quality assurance program shall be established and maintained by the owner of the monitored source. This program shall be in accordance with the criteria in the sources listed in § 139.102.

(9) The Department's approval will be based on the criteria specified in the manual referenced in § 139.102(3). Failure to utilize the specified procedures or to conduct the quality assurance program could result in denying or rescinding the Department's approval.

(10) The owner of a monitored source shall notify the Department when the monitoring system is inoperative for more than 1 hour during an air pollution episode as specified in Chapter 137 (relating to air pollution episodes). The notice shall be given within 2 hours of the malfunction.

(11) Manual sampling conducted under Subchapter B may be required if the Department determines that the monitoring system data is not accurate or that the owner of the monitored source does not conduct the quality assurance program specified in the manual referenced in § 139.102(3).

(12) Required monitoring shall meet at least one of the following minimum data availability requirements unless other data availability requirements are stipulated elsewhere in this title, in a plan approval or permit condition under Chapter 127 (relating to construction, modification, reactivation and operation of sources), or in an order issued under section 4 of the act. For purposes of calculating data availability, "process down" time, as specified in the manual referenced in § 139.102(3), shall be considered valid time.

(i) In each calendar month, at least 90% of the time periods for which an emission standard or an operational parameter applies shall be valid as set forth in the quality assurance section of the manual referenced in § 139.102(3).

(ii) In each calendar quarter, at least 95% of the hours shall be valid as set forth in the quality assurance section of the manual referenced in § 139.102(3).

(13) The monitor results shall be expressed in terms of the applicable standard or criteria required. The method used to

**SECTION D. Source Level Requirements**

convert monitor data shall be approved by the Department.

(14) Monitoring systems shall comply with the applicable performance specifications section of the manual referenced in § 139.102(3). The Department has the authority to determine which of the performance specifications are applicable.

(15) Verification of calibration standards shall be conducted in accordance with the applicable sampling methods in the Department's "Source Testing Manual" or as otherwise approved by the Department. The "Source Testing Manual" may be obtained from the Department.

(16) The requirements of this section apply to monitoring to demonstrate compliance with emissions standards and process operational parameter criteria.

[Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.]

[Plan Approval 42-028B, condition #038]

036 [25 Pa. Code §139.103]**Opacity monitoring requirements.**

This section applies to sources monitoring opacity.

(1) Opacity measurements shall be converted to represent plume opacity as described in the manual referenced in § 139.102(3) (relating to references). The conversion method shall be approved by the Department.

(2) Opacity monitoring systems shall meet at least one of the following minimum data availability requirements unless other data availability requirements are stipulated elsewhere in this title for a particular process:

(i) At least 90% of the hours in each calendar month shall be valid hours as set forth in the quality assurance section of the manual referenced in § 139.102(3).

(ii) At least 95% of the hours in each calendar quarter shall be valid hours as set forth in the quality assurance section of the manual referenced in § 139.102(3).

[Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.]

[Plan Approval 42-028B, condition #039]

IV. RECORDKEEPING REQUIREMENTS.**# 037 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Plan Approval 42-028F]

(a) The permittee shall keep records of 12-month rolling total for NO_x, SO_x, Total PM, VOC, and CO emissions from Furnace No. 1 on site and make available to the Department upon request.

[Plan Approval 42-028F] [40 CFR 52.21(r)(6)(iii)]

(b) 40 CFR 52.21(r)(6)(iii) – The owner or operator shall monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any emissions unit identified in paragraph (r)(6)(i)(b) of this section; and calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of 5 years following resumption of regular operations after the change, or for a period of 10 years following resumption of regular operations after the change if the project increases the design capacity or potential to emit that regulated NSR pollutant at such emissions unit.

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[Plan Approval 42-028F] [40 CFR 52.21(r)(6)(v)]

(c) 40 CFR 52.21(r)(6)(v) - If the unit is an existing unit other than an electric utility steam generating unit, the owner or operator shall submit a report to the Administrator if the annual emissions, in tons per year, from the project identified in paragraph (r)(6)(i) of this section, exceed the baseline actual emissions (as documented and maintained pursuant to paragraph (r)(6)(i)(c) of this section), by a significant amount (as defined in paragraph (b)(23) of this section) for that regulated NSR pollutant, and if such emissions differ from the preconstruction projection as documented and maintained pursuant to paragraph (r)(6)(i)(c) of this section. Such report shall be submitted to the Administrator within 60 days after the end of such year. The report shall contain the following:

1. The name, address and telephone number of the major stationary source;
2. The annual emissions as calculated pursuant to paragraph (r)(6)(iii) of this section; and
3. Any other information that the owner or operator wishes to include in the report (e.g., an explanation as to why the emissions differ from the preconstruction projection).

[Plan Approval 42-028F] [25 PA Code 127.203a(a)(5)(iii)(B)]

(d) Projected actual emissions is the maximum annual rate, in TPY, at which an existing emissions unit is projected to emit a regulated NSR pollutant in any one of the 5 years (12-month period) following the date the unit resumes regular operation after the project, or in any one of the 10 years following that date, if the project involves increasing the emissions unit's design capacity or its potential to emit of that regulated NSR pollutant and full utilization of the unit would result in a significant emissions increase or a significant net emissions increase at the major facility. The following procedures apply in determining the projected actual emissions of a regulated NSR pollutant for an emissions unit, before beginning actual construction on the project:

1. If the projected actual emissions for a regulated NSR pollutant are in excess of the baseline actual emissions, the following apply:
 - (A) The projected actual emissions for the regulated NSR pollutant must be incorporated into the required plan approval or the operating permit as an emission limit.
 - (B) The owner or operator shall monitor the emissions of the regulated NSR pollutant for which a limit is established in clause (A) and calculate and maintain a record of emissions, in TPY on a calendar year basis, for 5 years following resumption of regular operations after the change, or for 10 years following resumption of regular operations after the change if the project increases the design capacity or potential to emit of that regulated NSR pollutant at the emissions unit.
 - (C) The owner or operator shall record sufficient information to identify for all emission units in the approved project their total actual annual emissions and their actual annual emissions increase due to the project.
 - (D) The owner or operator shall submit a report to the Department, within 60 days after the end of each calendar year, which contains the emissions data required by clauses (B) and (C). This report must also contain a demonstration of how these emissions were determined if the determination was not by direct measurement with a Department-certified CEMS system.

038 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee shall maintain monthly records of the following parameters:

- (1) Gas Consumption: Hourly monitoring.
- (2) Combustion Air flows: Hourly monitoring.
- (3) Gas/Air Ratios: Daily monitoring.

**SECTION D. Source Level Requirements**

(4) Port Oxygen 2 Day interval monitoring

(5) Burner maintenance: Cleaning and adjustment as required to maintain flame patterns.

(6) Temperatures: B.W.Optic, and H.S. Optic.

(b) The records shall be maintained onsite for a minimum of 2 years, and shall be made available to the Department upon request.

[Authority for this condition is also derived from 25 Pa. Code Section 129.95 and Revised RACT approval issued March 31, 1999]

[Plan Approval 42-028B, condition #042]

039 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee shall record glass tonnage daily from Furnace No. 1 based on machine speed and weight of the item being produced, provided that, when glass gobs are not being cut, production shall be estimated from batch weights. These records shall remain on file for five years and be made available to the Department upon request.

(b) The production rate shall be recorded on a daily basis and records shall be submitted to the Department quarterly.

[Plan Approval 42-028B, condition #041]

040 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

a. The permittee shall keep records of all preventative maintenance on Furnace No. 1 including any corrective actions taken.

b. These records shall be kept for a minimum of five years and made available to the Department upon request.

[Plan Approval 42-028B, condition #043]

041 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall comply with the recordkeeping requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), (and) the "Record Keeping and Reporting" requirements in the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001 or the most recent revision.

Records shall be retained for at least 5 years and shall be made available to the Department upon request.

[Plan Approval 42-028B, condition #044]

042 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

For any Operating Day that the facility is excluding emissions from the relevant Emission Rate 30-day Rolling Average for NOx from Furnace No.1, it shall record the date, the exception (Abnormally Low Production Rate Day, Furnace Startup, Furnace Malfunction, Furnace Maintenance, or Color Transition) 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). For any Operating Day excluded for Maintenance, the facility shall record the total number of hours during which Maintenance occurred.

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #046]

**SECTION D. Source Level Requirements****# 043 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Recordkeeping and Reporting during furnace Startup: During applicable Furnace Startup period phases, the facility must keep the following records:

A. For the Initial Heating Phase

1. Total natural gas usage in Furnace No. 1 (in million standard cubic feet)

B. For the Refractory Soak and Seal Phase

1. Total natural gas usage in that furnace (in million standard cubic feet)
2. Excess oxygen percentage at the Furnace exhaust flue (as determined by handheld monitor once per shift)
3. Hot Spot Temperature (measured once per shift)
4. A certified statement asserting whether thermal blankets or similar techniques were used during this period.

C. For the Furnace Stabilization Phase

1. Total natural gas usage in that Furnace (in million standard cubic feet)
2. Excess oxygen percentage at the furnace exhaust flue (as determined by handheld monitor once per shift)
3. Average Hot Spot temperature (measured once per shift)

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #047]

044 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

For any Operating Day that the facility is excluding SO₂ emissions from the relevant Emission Rate 30-day Rolling Average, it shall record the date, the exception (Abnormally Low Production Rate Day, Furnace Startup, Furnace Malfunction, Furnace Maintenance, or Color Transition) 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).

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #048]

045 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Recordkeeping and Reporting during Furnace Startup: During all Furnace Startup phases the facility must also keep the following records:

During the startup period, the facility will record the amount of sulfur added to the batch materials in pounds per ton of total batch material.

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan approval 42-028B, condition #049]

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.****# 046 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall submit quarterly reports of continuous emission monitoring to the Department in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), (and) the "Record Keeping and Reporting" requirements as established in the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001 or the most recent revision.

(b) The permittee shall report emissions for all periods of unit operation, including startup, shutdown and malfunction.

(c) Initial quarterly reports following system certification shall be submitted to the Department within 35 days following the date upon which the Department notifies the owner or operator, in writing, of the approval of the continuous source monitoring system for use in determining compliance with applicable emission standards.

(d) Subsequent quarterly reports shall be submitted to the Department within 30 days after the end of each calendar quarter.

(e) Failure to submit required reports of continuous emission monitoring within the time periods specified in this Condition, shall constitute violations of this Permit, unless approved in advance by the Department in writing.

(f) Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

[Plan approval 42-028B, condition #050]

047 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

In agreement with Condition #065(f), the facility shall include in the quarterly monitoring reports the NOx and SO2 values in units of pounds of pollutant per ton of glass produced for each operating day. The quarterly report shall also report these values on a 30-day rolling average in order to determine compliance with the 30-day rolling average emission limits.

VI. WORK PRACTICE REQUIREMENTS.**# 048 [25 Pa. Code §127.12b]****Plan approval terms and conditions.****Furnace Startup:**

a. Initial Heating Phase Operational Limit: The facility shall burn no more than 5.0 million standard cubic feet of natural gas in that Furnace during the Initial Heating Phase of the Furnace Startup.

b. Refractory Soak and Seal Phase Operational Limits: The facility shall comply with the following operational limits to limit NOX emissions during the Refractory Soak and Seal Phase of the Furnace Startup:

i. Burn no more than sixty million standard cubic feet natural gas in that Furnace;

ii. Limit excess oxygen below 5 percent at the Furnace exhaust flue, as determined by handheld monitor, once per shift;

iii. Limit Hot Spot Temperature to 2900 degrees F; and

iv. Use thermal blankets or similar techniques to minimize air infiltration until expansion joints are sufficiently closed.

c. Furnace Stabilization Phase Operational Limits: The facility shall comply with the following operational limits to limit NOX emissions during the Furnace Stabilization Phase of the Furnace Startup:

i. Burn no more than ninety million standard cubic feet natural gas in that Furnace;

ii. Limit excess oxygen below 5 percent at the Furnace exhaust flue as determined by handheld monitor, once per shift; and

**SECTION D. Source Level Requirements**

iii. Limit Hot Spot Temperature to 2900 degrees F.

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #053]

049 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

At all times, including periods of startup, shutdown, idling, transition, and malfunction, the Permittee shall, to the extent practicable, maintain and operate Furnace No.1 in a manner consistent with good air pollution control practice for minimizing emissions.

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan approval 42-025B, condition #052]

050 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Furnace No. 1 SO₂ Limit during Furnace Startup the facility shall limit the amount of sulfur added to the batch materials to 2.6 pounds per ton of total batch material or less during all phases of Furnace No. 1 Startup.

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #054]

051 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The facility shall install, calibrate, certify, maintain, and operate NO_x and SO₂ CEMS as follows:

- a. The NO_x and SO₂ CEMS shall monitor continuously and record the hourly NO_x and SO₂ emission concentration in units of parts per million during each Operating Day from each Furnace.
- 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 Part 60 Appendix F (Quality Assurance Procedures)
- c. The facility shall use an EPA approved method for calculating flow.
- d. The Data Acquisition and Handling System (DAHS) for the CEMS shall convert the ppm values into pound per hour values.
- e. 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.
- f. This number shall be recorded in units of pounds of pollutant per ton of glass produced.

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #055]

052 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The facility shall install, calibrate, certify, maintain, and operate a COMS as follows:

- a. The facility shall install, calibrate, certify, maintain, and operate continuously a COMS during each Operating Day in accordance with Performance Specification 1 of 40 CFR Part 60 Appendix B.

**SECTION D. Source Level Requirements**

b. The facility must comply with all monitoring, recordkeeping, and reporting requirements in 40 CFR 60.13 and 40 CFR Part 60 Appendix B (Performance Specification 1).

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #056]

053 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Scheduled or preventative furnace maintenance, that is excluded from the 30-day rolling average, including checker raking and burning, shall not exceed ninety-six (96) hours annually.

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #057]

054 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The facility shall only operate Furnace No. 1 using OEAS technology after December 31, 2010.

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #059]

055 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

Where a Facility has more than one Furnace subject to the same emission limit, compliance with the pounds per ton stack test limits may be determined by averaging the emissions from Furnaces subject to the same emission limit at a given Facility. The average of the stack test results would be calculated on a weighted average by taking the source test from each unit and multiplying by the actual production of that unit in that year and dividing by the total Facility-wide production for that year. Then the resulting weighted numbers would be calculated for each additional Furnace and added together to calculate the combined pounds of emissions per ton of glass for the Facility.

VII. ADDITIONAL REQUIREMENTS.**# 056 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Furnace No. 1 shall be subject to 40 CFR Part 60, Subpart A and CC, 180 days after installation and certification of the COMS.

[Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

[Plan Approval 42-028B, condition #061]

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 103

Source Name: FURNACE 3

Source Capacity/Throughput:

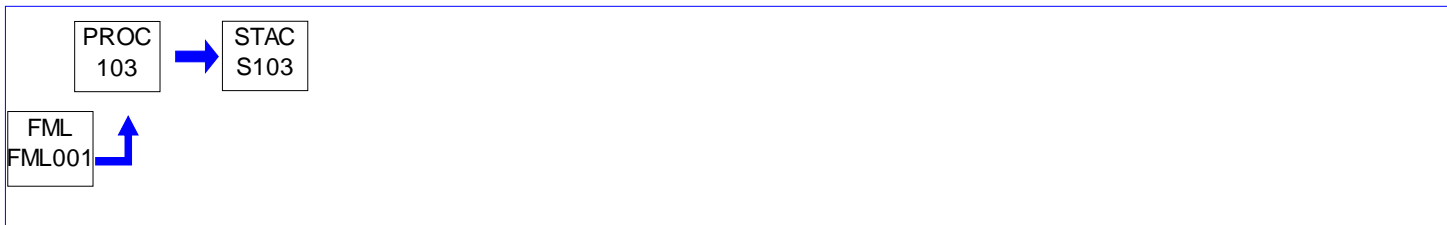
11.700 Tons/HR

GLASS

50.000 MCF/HR

Natural Gas

Conditions for this source occur in the following groups: 1 PART 63 SUBPART 6S
2 PART 60 SUBPART CC
4 GLASS MELTING NOX

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.13]****Processes**

No person may permit the emission into the outdoor atmosphere of particulate matter from any process listed in the following table, at any time, either in excess of the rate calculated by the formula or in such a manner that the concentration of particulate matter in the effluent gas exceeds .02 grains per dry standard cubic foot, whichever is greater:

The process factor is 50 times fill rate (lbs/ton) for glass production melting furnace.

Formula:

$$A = .76E^{(0.42)}$$

where:

A = Allowable emissions in pounds per hour.

E = Emission index = F x W pounds per hour.

F = Process factor in pounds per unit, and

W = Production or charging rate in units per hour.

The factor F shall be obtained from the table. The units for F and W shall be compatible.

In this source A = 11.94 lbs/hr. Where W = 14.09 tons/hr and F = 50 times fill rate (lbs/ton)

002 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

[Plan Approval 42-028E]

(a) Annual emissions from Furnace #3 shall not exceed (based on 11.7 tph production):

1. 194.73 tons of NO_x, calculated as a twelve month rolling total.
2. 128.14 tons of SO₂, calculated as a twelve month rolling total.
3. 51.25 tons of Total PM (filterable & condensable), calculated as a twelve month rolling total.
4. 51.25 tons of Total PM₁₀, calculated as a twelve month rolling total.
5. 51.25 tons of Total PM_{2.5}, calculated as a twelve month rolling total.
6. 10.25 tons of VOC, calculated as a twelve month rolling total.

**SECTION D. Source Level Requirements**

7. 10.25 tons of CO, calculated as a twelve month rolling total.

(b) The source shall not exceed the following:

1. 0.2 #/ton of VOC.
2. 0.2 #/ton of CO.

003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Plan Approval 42-028G & Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

(a) Normal Operation (Flint): Furnace No. 3 shall not emit more than 2.4 # SO₂ per ton of glass produced on a 30-day Rolling Average as measured using an SO₂ CEMS, except during the following periods: Abnormally Low Production Rate Days; Color Transition; Furnace Startup; Malfunction of the Furnace; and Maintenance of the Furnace.

(b) Normal Operation (Colored): Furnace No. 3 shall not emit more than 2.4 # SO₂ per ton of glass produced on a 30-day Rolling Average as measured using an SO₂ CEMS, except during the following periods: Abnormally Low Production Rate Days; Color Transition; Furnace Startup; Malfunction of the Furnace; and Maintenance of the Furnace.

004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Plan Approval 42-028G & Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

(a) Abnormally Low Production Day (Flint): Furnace No. 3 SO₂ Limit during Abnormally Low Production Rate Days the facility may elect to exclude - all Abnormally Low Production Rate Days from the Emission Rate 30-day Rolling Average when Furnace No. 3 is operating at an Abnormally Low Production Rate. During these days, a CEMS shall be used to demonstrate compliance on a 24-hour Block Average with the following pound per day limit for the Furnace(s) operating at an Abnormally Low Production Rate: 679 #/day of SO₂ as calculated by (2.4 # SO₂/ton glass) x (P/0.35) where P = 99.

(b) Abnormally Low Production Day (Colored): Furnace No. 3 SO₂ Limit during Abnormally Low Production Rate Days the facility may elect to exclude - all Abnormally Low Production Rate Days from the Emission Rate 30-day Rolling Average when Furnace No. 3 is operating at an Abnormally Low Production Rate. During these days, a CEMS shall be used to demonstrate compliance on a 24-hour Block Average with the following pound per day limit for the Furnace(s) operating at an Abnormally Low Production Rate: 679 #/day of SO₂ as calculated by (2.4 # SO₂/ton glass) x (P/0.35) where P = 99.

005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Plan Approval 42-028G & Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

Color Transition: Furnace No. 3 SO₂ Limit during Color Transition the facility may elect to exclude Operating Days during which a Color Transition is occurring from the Emission Rate 30-day Rolling Average when Furnace No. 3 has a Color Transition. During these days, a CEMS shall be used to demonstrate compliance on a 24-hour Block Average with the following pound per day limit when Furnace No. 3 has a Color Transition: 1,414 #/day of SO₂ as calculated by 2 x (2.5 # SO₂/ton glass) x (P/0.35) where P = 99.

006 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Plan Approval 42-028G & Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

Furnace Malfunction: For any Operating Day where a Malfunction of the Furnace No. 3 system occurs for any period of time, the facility 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: 2,121 #/day SO₂ as calculated by 3 x (2.5 # SO₂/ton glass) x (P/0.35) where P = 99.

**SECTION D. Source Level Requirements****# 007 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Plan Approval 42-028G & Authority for this condition is derived from the Global Consent Decree, effective May 7, 2010]

(a) Furnace Maintenance (Flint): For any Operating Day where Maintenance activities on Furnace No. 3 are performed, the facility 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:

$$\text{SO}_2 \text{ Maint Flint} = [\text{MH} \times (3 \times (2.5 \# \text{SO}_2/\text{ton glass}) \times (\text{P}/0.35)) + \text{NH} \times ((2.4 \# \text{SO}_2/\text{ton glass}) \times (\text{P}/0.35))] / 24$$

Where:

SO₂ Maint Flint = SO₂ emission limit for Furnace No. 3 during a Maintenance Day (Flint), in pounds per day.

P = Furnace-specific production threshold (99)

MH = Hours of Maintenance

NH = Normal Hours = 24 - MH

(b) Furnace Maintenance (Colored): For any Operating Day where Maintenance activities on Furnace No. 3 are performed, the facility 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:

$$\text{SO}_2 \text{ Maint Colored} = [\text{MH} \times (3 \times (2.5 \# \text{SO}_2/\text{ton glass}) \times (\text{P}/0.35)) + \text{NH} \times ((2.4 \# \text{SO}_2/\text{ton glass}) \times (\text{P}/0.35))] / 24$$

Where:

SO₂ Maint Colored = SO₂ emission limit for Furnace No. 3 during a Maintenance Day (Colored), in pounds per day.

P = Furnace-specific production threshold (99)

MH = Hours of Maintenance

NH = Normal Hours = 24 - MH

008 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

[Plan Approval 42-028E] [Authority for this condition is derived from Global Consent Decree]

NOx:

(a) The facility shall comply with the following applicable NOx limits for OEAS-Equipped Furnaces [Compliance with this condition assures compliance with 25 PA Code 129.304(a)]:

1. Emission Rate 30-day Rolling Average Limit - Commencing on the first Operating Day after completion of Furnace Startup and CEMS Certification, but no later than December 31, 2013, the facility shall not emit more than 3.8 pounds of NOx per ton of glass produced on a 30-day Rolling Average, as measured using a NOx CEMS, except during the following periods:

(a) Abnormally Low Production Rate Days

(b) Furnace Startup

(c) Malfunction of the Furnace

(d) Maintenance of the Furnace

2. NOx Limit during Abnormally Low Production Rate Days - For any Abnormally Low Production Rate Day, the facility may elect to exclude the emissions generated during that Day 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:

**SECTION D. Source Level Requirements**

$$\text{NOx(OEAS Abn)} = 3.8 \text{ (\# NOx/ton)} \times (P/0.35) = 1,075 \text{ \#/day}$$

where:

NOx(OEAS Abn) = NOx emission limit for an OEAS-Equipped furnace during an abnormally low production rate day, in pounds per day

P = Furnace-specific production threshold as defined in Paragraph 10 of GCD, in tons of glass produced per day. (P = 99)

3. Limits during Furnace Startup:

(a) Initial Heating Phase Operational Limit: the facility shall burn no more than 5.0 million standard cubic feet of natural gas in the Furnace during the Initial Heating Phase of the Furnace Startup.

(b) Refractory Soak and Seal Phase Operational Limits: the facility shall comply with the following operational limits to limit NOx emissions during the Refractory Soak and Seal Phase of the Furnace Startup:

(i) Burn no more than sixty (60) million standard cubic feet of natural gas in the Furnace;

(ii) Limit excess oxygen below 5% at the Furnace exhaust flue, as determined by handheld monitor, once per shift;

(iii) Limit Hot Spot Temperature to 2,900F; and

(iv) Use thermal blankets or similar techniques to minimize air infiltration until expansion joints are sufficiently closed.

(c) Furnace Stabilization Phase Operational Limits: the facility shall comply with the following operational limits to limit NOx emissions during the Furnace Stabilization Phase of the Furnace Startup:

(i) Burn no more than ninety (90) million standard cubic feet of natural gas in the Furnace;

(ii) Limit excess oxygen below 5% at the Furnace exhaust flue as determined by handheld monitor, once per shift; and

(iii) Limit Hot Spot Temperature to 2,900F.

4. NOx limit during Malfunction: For any Operating Day where a Malfunction of the Furnace occurs for any period of time, the facility may elect to exclude the emissions generated during those Operating Day (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:

$$\text{NOx(OEAS Malf)} = 3 \times \text{NOx(OEAS Abn)} = 3,225 \text{ \#/day}$$

where:

NOx(OEAS Malf) = NOx emission limit for an OEAS-Equipped Furnace during a Malfunction Day, in pounds per day

NOx(OEAS Abn) = NOx emission limit for an OEAS-Equipped Furnace during an Abnormally Low Production Rate Day, in pounds per day

5. NOx limit during Maintenance: For any Operating Day where Maintenance activities on the Furnace are performed, the facility may elect to exclude the Maintenance Day from the Emission Rate 30-day Rolling Average. 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:

$$\text{NOx(OEAS Maint)} = \{ \text{MH} \times [3 \times \text{NOx(OEAS Abn)}] \} / 24 + \{ \text{NH} \times [\text{NOx(OEAS Abn)}] \} / 24$$

where:

NOx(OEAS Maint) = NOx emission limit for an OEAS-Equipped Furnace during a Maintenance Day, in pounds per day

NOx(OEAS Abn) = NOx emission limit for an OEAS-Equipped Furnace during an Abnormally Low Production Rate Day, in pounds per day

**SECTION D. Source Level Requirements**

MH = Hours of maintenance
 NH = Normal hours = 24 - MH

 SO₂:

(b) SO₂ limit during Furnace Startup - The facility shall comply with the following operational limit to limit SO₂ emissions during all phases of Furnace Startup:

(i) During the startup period, the facility 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.

 (c) [No longer applicable.]

(d) Once all Furnaces listed in Table 4 of the GCD have received a Permit with 30-day Rolling Average limits for flint glass, the SO₂ System-wide Weighted Average of 30-day Rolling Average Emission rate Permit Limits of all Furnaces shall not be greater than 1.95 pounds of SO₂ per ton of flint glass produced. Once all Furnaces listed in Table 4 of the GCD have received a Permit with 30-day Rolling Average limits for color glass, the SO₂ System-wide Weighted Average of 30-day Rolling Average Emission rate Permit Limits of all Furnaces shall not be greater than 2.25 pounds of SO₂ per ton of color glass produced. Beginning in the 2011 Calendar Year and ending on December 31, 2015, the facility shall achieve System-wide Weighted Annual Average Actual Emissions of no greater than 1.95 pounds of SO₂ per ton of glass produced.

(e) Interim PM Emission Limit: - [This condition is no longer applicable]

(f) PM Emission Limit:

The facility shall comply with the PM emission limit of 1.0 pound of Total PM (both filterable & condensable) per ton of glass produced by December 31, 2013.

(g) Sulfuric Acid Mist Emission Limit:

The facility shall comply with the Sulfuric Acid Mist emission limit of 1.0 pounds per ton of glass produced.

009 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

On 11/06/2013, the Department approved the addition of Cobalt Oxide to Furnace 3 with an emission increase of 0.056 TPY for PM-10.

[From: RFD #4062, approved on 11/06/2013]

Fuel Restriction(s).

010 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall use only Natural Gas as fuel for this source.

Throughput Restriction(s).

011 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Plan Approval 42-028E]

(a) The facility shall limit the electric boost on Furnace No. 3 to 2,000 KVA.

[Plan Approval 42-028A]

(b) Furnace #3 shall combust a maximum of 438 MMCF of natural gas calculated as a 12-month rolling sum.

**SECTION D. Source Level Requirements****II. TESTING REQUIREMENTS.****# 012 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Plan Approval 42-028A]

(a) The following stack testing methods shall be used unless a different method is approved by the Department.

Pollutant	Stack Testing Method
Total PM	EPA Method 5 plus Method 202 or EPA Method 5 plus OTM 28
Total PM10	EPA Method 5 and OTM 28 or OTM 27 and OTM 28
Filterable PM	EPA Method 5
Total PM2.5	EPA Method 5 plus OTM 28 or OTM 27 and OTM 28
CO	EPA Method 10
SO2	EPA Method 6C
NOX	EPA Method 7E
VOC	EPA Method 25A
Opacity	EPA Method 9
Sulfuric acid mist	EPA Method 13A or B

[Plan Approval 42-028E]

(b) Within 60 days after achieving the normal production rate at which the affected source will be operated, but not later than 180 days after initial start-up of the source after installation of the OEAS, a stack test shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection. The stack test shall be performed while the aforementioned source is operating at the maximum or normal rated capacity as stated on the application. The stack test shall be conducted for CO, VOC, and opacity. The facility shall also perform a stack test for NOx and SOx at the same time unless the CEMs for NOx and SOx have been certified by the Department. The facility shall also test for PM10 and PM2.5 at the same time unless the facility is using the total PM testing to show compliance with those limits.

1. One paper copy plus one electronic copy of all source test submissions (notifications, protocols, reports, supplemental information, etc.) shall be sent to both PSIMS Administration in Central Office and to Regional Office AQ Program Manager.

Paper copies shall be sent using the following mailing addresses:

CENTRAL OFFICE:

Pennsylvania Department of Environmental Protection
Attn: PSIMS Administrator
P.O. Box 8468
Harrisburg, PA 17105-8468

NORTHWEST REGIONAL OFFICE:

Pennsylvania Department of Environmental Protection
Attn: Air Quality Program Manager
230 Chestnut St.
Meadville, PA 16335

Electronic copies shall be sent to the following e-mail addresses:

CENTRAL OFFICE:

RA-EPstacktesting@pa.gov

NORTHWEST REGIONAL OFFICE:

RA-EPNWstacktesting@pa.gov

2. At least 90 days prior to performing a stack test, a protocol shall be submitted in accordance with the provisions of

**SECTION D. Source Level Requirements**

Chapter 139 of the Rules and Regulations of the Department of Environmental Protection. Submit the protocol via the instructions in (1). The protocol shall contain, at a minimum, location of sampling ports, planned production rates, and any other information applicable to the stack testing. Performing a stack test prior to Department approval of the protocol may invalidate the results.

3. At least 2 weeks prior to the test, the Department shall be informed, in writing, of the date and time of the test.

4. Within 60 days after completion of the test, the complete test report, including, but not limited to, production rates during testing, calculation methods and results, and any other applicable testing information that will allow for a complete review of the test and results, shall be submitted to the Department for approval. Submit the report via the instructions in (1).

5. Actions Related to Noncompliance Demonstrated by a Stack Test:

(i) When the results of a stack test performed in conformance with this Condition exceed the level specified in any condition of this approval, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to the Department, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. The Department shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to the Department within thirty (30) days of receipt of the notice of deficiency. The Department reserves the authority to use enforcement activities to resolve noncompliant stack tests.

(ii) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to the Department that retesting in one hundred and twenty (120) days is not practicable, the Department may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate approval conditions may be grounds for immediate revocation of the approval to operate the affected facility.

[Plan Approval 42-028E]

(c) In addition to the stack testing required by this condition, the facility must conduct subsequent performance testing within six (6) to twelve (12) months prior to operating permit renewal, for CO and VOC emissions and PM10 and PM2.5 at the same time unless the facility is using the total PM testing to show compliance with those limits in accordance with the provisions of Chapter 139 (relating to sampling and testing).

013 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Plan Approval 42-028E] [Authority for this condition is derived from Global Consent Decree]

(a) [No longer applicable.]

(b) Compliance with the PM limit shall be demonstrated by annual stack tests. Total PM (both filterable & condensable) shall be determined using Method 5 (40 CFR 60 Appendix A) and EPA Method 202 (40 CFR 51 Appendix M). Compliance with this limit shall be measured by a stack test which the facility shall conduct no later than twelve (12) months after the date control OEAS installation) is required (December 31, 2013) and once per Calendar Year thereafter. Where a Facility has more than one Furnace subject to the same emission limit, compliance with the pounds per ton stack test limits may be determined by averaging the emissions from Furnaces subject to the same emission limit at a given Facility. The average of the stack test results would be calculated on a weighted average by taking the source test from each unit and multiplying by the actual production of that unit in that year and dividing by the total Facility-wide production for that year. Then the resulting weighted numbers would be calculated for each additional Furnace and added together to calculate the combined pounds of emissions per ton of glass for the Facility.

(c) Compliance with the Sulfuric Acid Mist emission limit shall be demonstrated by a stack test performed using Conditional Test Method 13A or B on all Furnaces. Stack testing shall be required to be performed once during the life of each Title V permit renewal.

(d) 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

**SECTION D. Source Level Requirements**

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.

III. MONITORING REQUIREMENTS.**# 014 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Plan Approval 42-028A]

(a) The permittee shall perform the emissions monitoring analysis procedures or test methods required under an applicable requirement including procedures and methods under Sections 114(a)(3) (42 U.S.C.A.§§ 7414 (a)(3) or 504(b) (42 U.S.C.A.§§ 7661c(b)) of the Clean Air Act.

(b) Unless otherwise required by this permit, the permittee shall comply with applicable monitoring, quality assurance, recordkeeping and reporting requirements of the Air Pollution Control Act, 25 Pa. Code, Subpart C, Article III (relating to air resources), including Chapter 139 (relating to sampling and testing). The permittee shall also comply with applicable requirements related to monitoring, quality assurance, reporting and recordkeeping required by the Clean Air Act including §§ 114(a)(3) and 504(b) and regulations adopted thereunder, unless otherwise required by this permit.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 139.101(1)(iv), 139.101(10) and 139.101(12).]

(c) Furnace #3: Continuous emission monitoring systems for sulfur dioxide (SO₂) and opacity and their components must be approved by the Department and installed, operated and maintained in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C and Revision No. 8 or the latest version of the Department's Continuous Source Monitoring Manual, 274-0300-001.

015 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

[Plan Approval 42-028E] [Authority for this condition is derived from Global Consent Decree]

(a) A CEMS shall be used to demonstrate compliance with the NO_x limits. If a CEMS Certification Event occurs, then the requirement to demonstrate compliance continuously with the limit for the 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).

(b) A CEMS shall be used to demonstrate compliance with the interim SO₂ limit.

(c) A CEMS shall be used to demonstrate compliance with the permanent SO₂ limits. If a CEMS Certification Event occurs, then the requirement to demonstrate compliance continuously with the limit for the 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) Compliance with the 30-day rolling average limits set forth herein (NO_x and SO₂) may be determined by averaging the emissions from all Furnaces (#1 & #3) subject to the same emission limit at a given facility.

016 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

[Plan Approval 42-028E] [Authority for this condition is derived from Global Consent Decree]

(a) In lieu of any parametric monitoring, the facility shall install, calibrate, certify, maintain, and operate a NO_x CEM by December 31, 2013, a SO₂ CEM by December 31, 2009, and a COMS by December 31, 2009. The CEMS or COMS certification cannot occur during periods of Abnormally Low Production rate Days, Furnace Startup, Control Device Startup, Malfunction, Maintenance, or Color Transition. The facility shall commence a new CEMS Certification on a Furnace on the first Operating Day after each CEMS Certification Event concludes on that Furnace.

**SECTION D. Source Level Requirements**

(b) The facility NO_x and SO₂ CEMS are subject to the following:

1. 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. The CEMS shall calculate and record in units of parts per million of NO_x and SO₂ emitted.

2. 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).

(c) When using the CEMS to determine an emission rate (pound per ton or ton per year), the facility is required to either:

1. Follow part (b) above 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 (DAHS) 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 DAHS shall divide the total daily emissions in pounds per day for valid CEMS hourly date 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.

(d) The facility COMS are subject to the following:

1. The facility shall install, calibrate, certify, maintain, and operate continuously a COMS during each Operating Day in accordance with Performance Specification 1 of 40 CFR 60 Appendix B; and

2. The facility must comply with all monitoring, recordkeeping and reporting requirements in 40 CFR 60.13 and 40 CFR 60 Appendix B (Performance Specification 1).

017 [25 Pa. Code §139.101]**General requirements.**

This section applies to monitoring systems as defined in the manual referenced at 139.102(3) (relating to references), installations required or approved under Chapters 122, 124, 127 and 129 or in an order issued under section 4 of the act (35 P. S. 4004).

(1) The submittal procedures specified in the publication entitled "Continuous Source Monitoring Manual," available from the Department shall be utilized to obtain Department approval. This publication includes:

- (i) Installation requirements.
- (ii) Performance specifications.
- (iii) Test procedures.
- (iv) Reporting requirements.
- (v) Quality assurance requirements.
- (vi) Administrative procedures for obtaining Department approval.

(2) The monitoring system installation, certification and operation shall be conducted under the direct supervision of persons qualified by training and experience.

(3) The monitoring systems may be designed to monitor source emissions or stack emissions if the representativeness of emissions can be verified. The method of conversion of monitoring results to source or stack emissions shall be approved by the Department.

(4) The location of monitoring devices shall be approved by the Department prior to installation. The selection of the

**SECTION D. Source Level Requirements**

monitoring location shall utilize applicable criteria in the manual referenced in 139.102(3). The Department has the authority to determine which of the criteria are applicable. The representativeness of the measurements at the chosen monitoring location shall be verified.

(5) The owner of a monitored source shall maintain records containing monitoring information and report data to the Department as specified in the manual referenced in 139.102(3). The records shall be maintained for 5 years and be available for inspection by Department personnel.

(6) The owner of a monitored source shall provide permanent sampling facilities as specified in 139.1 (relating to sampling facilities) to permit verification testing by the Department. For extractive monitors, calibration gas inlets shall be available as near as possible to the monitor probe inlet to permit the Department to verify calibration of the monitoring system. Facilities shall be approved by the Department prior to construction.

(7) Verification testing for monitoring systems shall be in accordance with Subchapter B (relating to monitoring duties of certain sources), and of the manual referenced in 139.102(3).

(8) A quality assurance program shall be established and maintained by the owner of the monitored source. This program shall be in accordance with the criteria in the sources listed in 139.102.

(9) The Department's approval will be based on the criteria specified in the manual referenced in 139.102(3). Failure to utilize the specified procedures or to conduct the quality assurance program could result in denying or rescinding the Department's approval.

(10) The owner of a monitored source shall notify the Department when the monitoring system is inoperative for more than 1 hour during an air pollution episode as specified in Chapter 137 (relating to air pollution episodes). The notice shall be given within 2 hours of the malfunction.

(11) Manual sampling conducted under Subchapter B may be required if the Department determines that the monitoring system data is not accurate or that the owner of the monitored source does not conduct the quality assurance program specified in the manual referenced in 139.102(3).

(12) Required monitoring shall meet at least one of the following minimum data availability requirements unless other data availability requirements are stipulated elsewhere in this title, in a plan approval or permit condition under Chapter 127 (relating to construction, modification, reactivation and operation of sources), or in an order issued under section 4 of the act. For purposes of calculating data availability, "process down" time, as specified in the manual referenced in 139.102(3), shall be considered valid time.

(i) In each calendar month, at least 90% of the time periods for which an emission standard or an operational parameter applies shall be valid as set forth in the quality assurance section of the manual referenced in 139.102(3).

(ii) In each calendar quarter, at least 95% of the hours during which the monitored source is operating shall be valid as set forth in the quality assurance section of the manual referenced in 139.102(3).

(13) The monitor results shall be expressed in terms of the applicable standard or criteria required. The method used to convert monitor data shall be approved by the Department.

(14) Monitoring systems shall comply with the applicable performance specifications section of the manual referenced in 139.102(3). The Department has the authority to determine which of the performance specifications are applicable.

(15) Verification of calibration standards shall be conducted in accordance with the applicable sampling methods in the Department's "Source Testing Manual" or as otherwise approved by the Department. The "Source Testing Manual" may be obtained from the Department.

(16) The requirements of this section apply to monitoring to demonstrate compliance with emissions standards and process operational parameter criteria.

**SECTION D. Source Level Requirements****# 018 [25 Pa. Code §139.103]****Opacity monitoring requirements.**

This section applies to sources monitoring opacity.

(1) Opacity measurements shall be converted to represent plume opacity as described in the manual referenced in § 139.102(3) (relating to references). The conversion method shall be approved by the Department.

(2) Opacity monitoring systems shall meet at least one of the following minimum data availability requirements unless other data availability requirements are stipulated elsewhere in this title for a particular process:

(i) At least 90% of the hours in each calendar month shall be valid hours as set forth in the quality assurance section of the manual referenced in § 139.102(3).

(ii) At least 95% of the hours in each calendar quarter shall be valid hours as set forth in the quality assurance section of the manual referenced in § 139.102(3).

IV. RECORDKEEPING REQUIREMENTS.**# 019 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Plan Approval 42-028E]

(a) All recordkeeping shall commence upon initial source/control device (OEAS installation) startup. These records shall be kept for a minimum of five years and made available to the Department upon request.

(b) The permittee shall record glass tonnage daily based on machine speed and weight of the item being produced, provided that, when glass gobs are not being cut, production shall be estimated from batch weights.

(c) The permittee shall keep records of 12-month rolling total NO_x, SO₂ and Total PM (both filterable & condensable) emissions from Furnace #3.

(d) The production rate shall be recorded on a daily basis.

(e) The permittee shall keep records of the electric boost on a daily basis.

[Plan Approval 42-028A]

(f) The permittee shall keep records of all preventative maintenance including any corrective actions taken.

(g) The permittee shall comply with the recordkeeping requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), (and) the "Record Keeping and Reporting" requirements in the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001 or the latest revision. Records shall be retained for at least 5 years and shall be made available to the Department upon request.

020 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

[Plan Approval 42-028E] [Authority for this condition is derived from Global Consent Decree]

(a) For any Operating Day that the facility 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, Furnace Malfunction, Furnace Maintenance, or Color Transition) under which it is excluded, a calculation of the applicable limit (pounds per day) according to the appropriate equation and the recorded emissions according to the CEMS (pounds per day). For any Operating Day excluded for Maintenance, the facility shall record the total number of hours during which Maintenance occurred.

(b) Recordkeeping and Reporting during Furnace Startup: During the applicable Furnace Startup period phases, the facility

**SECTION D. Source Level Requirements**

must keep the following records:

1. For the Initial Heating Phase:

- (a) Total natural gas usage in the Furnace (in million standard cubic feet)

2. For the Refractory Soak and Seal Phase:

- (a) Total natural gas usage in the 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)
- (d) A certified statement asserting whether thermal blankets or similar techniques were used during this period.

3. 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)
- (c) Average Hot Spot temperature (measured once per shift).

(c) Recordkeeping and Reporting during Furnace Startup: During all Furnace Startup phases, the facility must keep the following records:

1. During the startup period, the facility will record the amount of sulfur added to the batch materials in pounds per ton of total batch material.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain monthly records:

- (1) Gas Consumption: Hourly monitoring.
- (2) Air flows: Hourly monitoring.
- (3) Gas/Air Ratios: Daily monitoring.
- (4) Port Oxygen: 2 day interval monitoring.
- (5) Burner maintenance: Cleaning and adjustment as required to maintain flame patterns.
- (6) Temperatures: B.W.Optic and H.S. Optic.

(b) The records of above parameters shall be maintained in accordance with 25 Pa Code Section 129.95. The records shall be maintained onsite for a minimum of 5 years, and shall be made available to the Department upon request.

[Authority for this condition is also derived in 25 Pa. Code § 129.95]

V. REPORTING REQUIREMENTS.

022 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Plan Approval 42-028A]

**SECTION D. Source Level Requirements**

- (a) The permittee shall submit quarterly reports of continuous emission monitoring of Furnace #3 to the Department in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), (and) the "Record Keeping and Reporting" requirements as established in the Department's Continuous Source Monitoring Manual, Revision No. 8, 274-0300-001 or the latest revision.
- (b) The permittee shall report emissions for all periods of unit operation, including startup, shutdown and malfunction.
- (c) [No longer applicable.]
- (d) Subsequent quarterly reports shall be submitted to the Department within 30 days after the end of each calendar quarter.
- (e) Failure to submit required reports of continuous emission monitoring within the time periods specified in this Condition, shall constitute violations of this Permit, unless approved in advance by the Department in writing.
- (f) Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

023 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

In agreement with Condition #022(c), the facility shall include in the quarterly monitoring reports the NOx and SO2 values in units of pounds of pollutant per ton of glass produced for each operating day. The quarterly report shall also report these values on a 30-day rolling average in order to determine compliance with the 30-day rolling average emission limits.

VI. WORK PRACTICE REQUIREMENTS.**# 024 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Plan Approval 42-028E]

The permittee shall maintain and operate the source in accordance with the manufacturer's specifications and in accordance with good air pollution control. The facility shall maintain the specifications on-site and make it available to the Department upon request.

025 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

[Plan Approval 42-028E] [Authority for this condition is derived from Global Consent Decree]

- (a) At the end of the Furnace Startup period following the next Major Rebuild, but no later than the first Operating Day after December 31, 2013, the facility shall only Operate the Furnace using Oxygen Enriched Air Staging (OEAS) technology.
- (b) At all times, including periods of Abnormally Low Production Rate Days, Furnace Startup, Control Device Startup, Malfunction, Maintenance, and Color Transition, the facility shall, to the extent practicable, maintain and operate the Furnace and all control devices in a manner consistent with good air pollution control practice for minimizing emissions.
- (c) Scheduled or preventative Furnace Maintenance, including checker raking and burning, shall not exceed ninety-six (96) Operating hours annually and shall be conducted only when any downstream control devices (if applicable) are operating.

VII. ADDITIONAL REQUIREMENTS.**# 026 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Plan Approval 42-028E] [Authority for this condition is derived from Global Consent Decree]

- (a) Furnace #3 will be "affected facilities" under 40 CFR 60 Subparts A and CC, 180 Days after installation and certification of the Continuous Opacity Monitoring System (COMS).
- (b) The Abnormally Low Production Rate Day Threshold is currently 99 tons of glass produced per day as defined in

**SECTION D. Source Level Requirements**

Paragraph 10 of the GCD. If production is increased by a Permit, the Abnormally Low Production Rate Day Threshold would be 35 percent of the new permitted production (or design production, where there is no permitted production) as determined on a daily basis (for the purpose of defining the Abnormally Low Production Rate Day Threshold).

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

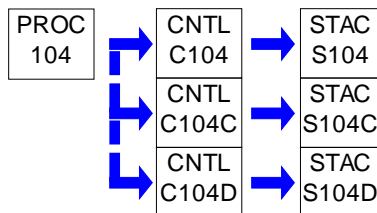
Source ID: 104

Source Name: BATCH HOUSE FEED

Source Capacity/Throughput:

20.000 Tons/HR

GLASS PULLED

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

No person may permit the emission into the outdoor atmosphere of particulate matter from this source in such a manner that the concentration of particulate matter in the effluent gas exceeds .02 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall perform weekly visible observations (EPA Method 22) of each control device stack when the source and control devices are in operation for the Batch House Feed. If visible emissions are observed, the permittee must conduct EPA Method 9. Method 9 readings shall be kept with the preventative maintenance log describing the problem and actions taken to resolve the problem.

IV. RECORDKEEPING REQUIREMENTS.**# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

a) The permittee shall maintain weekly records of all preventative maintenance inspections of the control device. These inspections/maintenance records shall, at a minimum, contain the following:

- (i) The dates of inspections/maintenance;
- (ii) Description of any problems or defects of the control device;
- (iii) Action taken to correct problems or defects;
- (iv) Any routine maintenance performed;
- (v) Pressure drop readings; and
- (vi) Visible observations.

b) Such records shall be kept on site for a period of 5 years and shall be made available to the Department upon request.

**SECTION D. Source Level Requirements****V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

- a) The permittee shall conduct preventative maintenance inspections in accordance with manufacturer recommendations at least once every week (every seven days) on the control device.
- b) The permittee shall operate the control devices at all times the source is in operation.
- c) The permittee shall permanently install and maintain a magnehelic gauges or equivalent in a convenient location to measure the pressure drop across each baghouse.
- d) The permittee shall maintain and operate the source and control devices in accordance with the manufacturer's specifications and in accordance with good air pollution control practices.

005 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The pressure drop range for C104 (Weighed Batch Surge Hopper Dust Collector) and C104C (Furnace 3 Transfer Pulley Dust Collector) shall be from 0.5 to 6.0 inches of water column.

VII. ADDITIONAL REQUIREMENTS.**# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The pressure drop range for each baghouse shall be established within the first 45 days of operation and shall become the standard operating parameter for each control device. The pressure drop range shall be incorporated into the facility's operating permit at a later date.

Mr. Decker provided a pressure drop range for C104 and C104C via email on August 20, 2010. The pressure drop range for this equipment is from 0.5 to 6.0 inches of water column.

007 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The Department reserves the right to require exhaust stack testing of any control device as necessary to determine compliance with any applicable requirement.

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

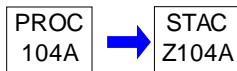
Source ID: 104A

Source Name: BATCH HOUSE CULLET PILES

Source Capacity/Throughput:

20.200 Tons/HR

GLASS PULLED

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain this source in accordance with manufacturer's specification and good air pollution control practice.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

***** Permit Shield in Effect. *****

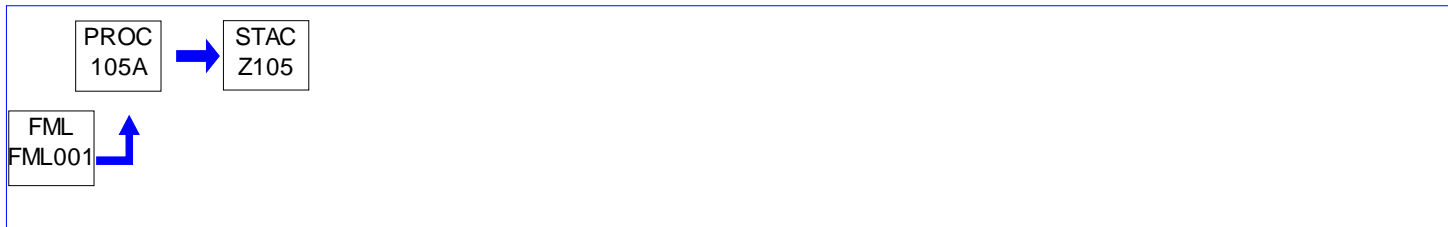
**SECTION D. Source Level Requirements**

Source ID: 105A

Source Name: FORMING / FINISHING LINES FURNACE 1

Source Capacity/Throughput: 17.100 MMBTU/HR

16.765 MCF/HR Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from this process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

003 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall use only Natural Gas as a fuel for this source.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 004 [25 Pa. Code §129.97]****Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.**

(c) The owner and operator of a source specified in this subsection, which is located at a major NO_x emitting facility or major VOC emitting facility subject to § 129.96 shall install, maintain and operate the source in accordance with the manufacturer's specifications and with good operating practices:

(1) A NO_x air contamination source that has the potential to emit less than 5 TPY of NO_x.

(2) - (8) [Do not apply]

[Applies to Lehr 11, Lehr 12, and Lehr 13.]

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

***** Permit Shield in Effect. *****

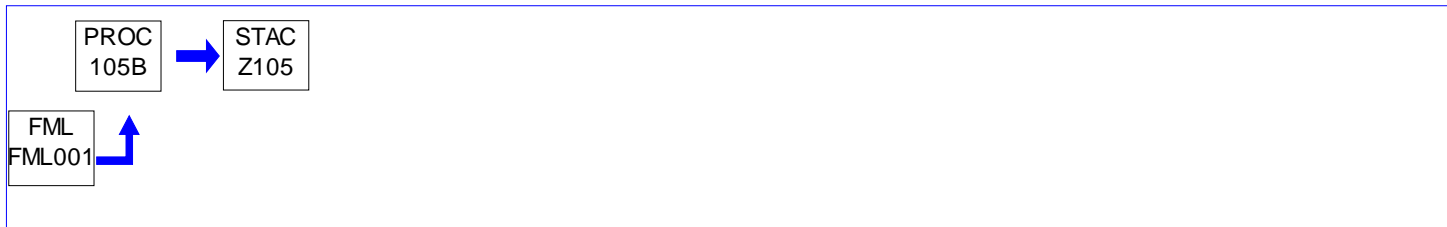
**SECTION D. Source Level Requirements**

Source ID: 105B

Source Name: FORMING/FINISHING LINES FURNACE 3

Source Capacity/Throughput: 24.800 MMBTU/HR

24.314 MCF/HR Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from a process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Plan Approval 42-028E]

The permittee shall use only natural gas as fuel for this source.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

[Plan Approval 42-028E]

The permittee shall maintain and operate the source in accordance with the manufacturer's specifications and in accordance with good air pollution control. The facility shall maintain the specifications on-site and make it available to the Department upon request.

005 [25 Pa. Code §129.97]**Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.**

(c) The owner and operator of a source specified in this subsection, which is located at a major NO_x emitting facility or major VOC emitting facility subject to § 129.96 shall install, maintain and operate the source in accordance with the manufacturer's specifications and with good operating practices:

(1) A NO_x air contamination source that has the potential to emit less than 5 TPY of NO_x.

(2) - (8) [Do not apply]

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

***** Permit Shield in Effect. *****

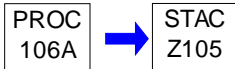
**SECTION D. Source Level Requirements**

Source ID: 106A

Source Name: HOT END TREATMENT FURNACE 1

Source Capacity/Throughput: 20.200 Tons/HR GLASS PULLED

Conditions for this source occur in the following groups: 3 TREATMENT/SWAB FURNACES

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 106B

Source Name: HOT END TREATMENT FURNACE 3

Source Capacity/Throughput: 20.200 Tons/HR GLASS PULLED

Conditions for this source occur in the following groups: 3 TREATMENT/SWAB FURNACES

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

***** Permit Shield in Effect. *****

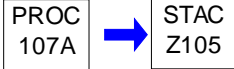
**SECTION D. Source Level Requirements**

Source ID: 107A

Source Name: MOLD SWAB FURNACE 1

Source Capacity/Throughput: 20.200 Tons/HR GLASS PULLED

Conditions for this source occur in the following groups: 3 TREATMENT/SWAB FURNACES

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 107B

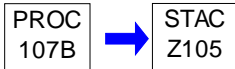
Source Name: MOLD SWAB FURNACE 3

Source Capacity/Throughput:

20.200 Tons/HR

GLASS PULLED

Conditions for this source occur in the following groups: 3 TREATMENT/SWAB FURNACES

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements) and/or Section E (Source Group Restrictions).

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

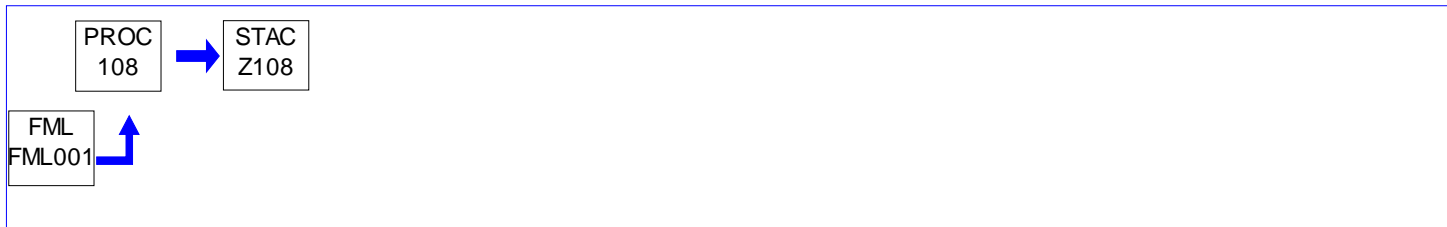
Source ID: 108

Source Name: MISCELLANEOUS NATURAL GAS USAGE

Source Capacity/Throughput: 16.701 MMBTU/HR

16,374.000 CF/HR

Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from this process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall use only natural gas as a fuel for this source.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

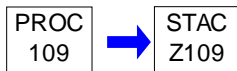
Source ID: 109

Source Name: THREE DEGREASER UNITS

Source Capacity/Throughput:

15.000 Gal/HR

MINERAL SPIRITS

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 001 [25 Pa. Code §129.63]****Degreasing operations**

(a) Cold cleaning machines. Except for those subject to the Federal National emissions standards for hazardous air pollutants (NESHAP) for halogenated solvent cleaners under 40 CFR Part 63 (relating to National emission standards for hazardous air pollutants for source categories), this subsection applies to cold cleaning machines that use 2 gallons or more of solvents containing greater than 5% VOC content by weight for the cleaning of metal parts.

(1) Immersion cold cleaning machines shall have a freeboard ratio of 0.50 or greater.

(2) Immersion cold cleaning machines and remote reservoir cold cleaning machines shall:

(i) Have a permanent, conspicuous label summarizing the operating requirements in paragraph (3). In addition, the label shall include the following discretionary good operating practices:

(A) Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts should be positioned so that solvent drains directly back to the cold cleaning machine.

(B) When a pump-agitated solvent bath is used, the agitator should be operated to produce a rolling motion of the solvent with no observable splashing of the solvent against the tank walls or the parts being cleaned.

**SECTION D. Source Level Requirements**

(C) Work area fans should be located and positioned so that they do not blow across the opening of the degreaser unit.

(ii) Be equipped with a cover that shall be closed at all times except during cleaning of parts or the addition or removal of solvent. For remote reservoir cold cleaning machines which drain directly into the solvent storage reservoir, a perforated drain with a diameter of not more than 6 inches shall constitute an acceptable cover.

(3) Cold cleaning machines shall be operated in accordance with the following procedures:

(i) Waste solvent shall be collected and stored in closed containers. The closed containers may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.

(ii) Flushing of parts using a flexible hose or other flushing device shall be performed only within the cold cleaning machine. The solvent spray shall be a solid fluid stream, not an atomized or shower spray.

(iii) Sponges, fabric, wood, leather, paper products and other absorbent materials may not be cleaned in the cold cleaning machine.

(iv) Air agitated solvent baths may not be used.

(v) Spills during solvent transfer and use of the cold cleaning machine shall be cleaned up immediately.

(4) After December 22, 2002, a person may not use, sell or offer for sale for use in a cold cleaning machine any solvent with a vapor pressure of 1.0 millimeter of mercury (mm Hg) or greater and containing greater than 5% VOC by weight, measured at 20°C (68°F) containing VOCs.

(5) On and after December 22, 2002, a person who sells or offers for sale any solvent containing VOCs for use in a cold cleaning machine shall provide, to the purchaser, the following written information:

(i) The name and address of the solvent supplier.

(ii) The type of solvent including the product or vendor identification number.

(iii) The vapor pressure of the solvent measured in mm hg at 20°C (68°F).

(6) A person who operates a cold cleaning machine shall maintain for at least 2 years and shall provide to the Department, on request, the information specified in paragraph (5). An invoice, bill of sale, certificate that corresponds to a number of sales, Material Safety Data Sheet (MSDS), or other appropriate documentation acceptable to the Department may be used to comply with this section.

(7) Paragraph (4) does not apply:

(i) To cold cleaning machines used in extreme cleaning service.

(ii) If the owner or operator of the cold cleaning machine demonstrates, and the Department approves in writing, that compliance with paragraph (4) will result in unsafe operating conditions.

(iii) To immersion cold cleaning machines with a freeboard ratio equal to or greater than 0.75.

(b) - (e) [Do not apply]

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).



SECTION D. Source Level Requirements

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

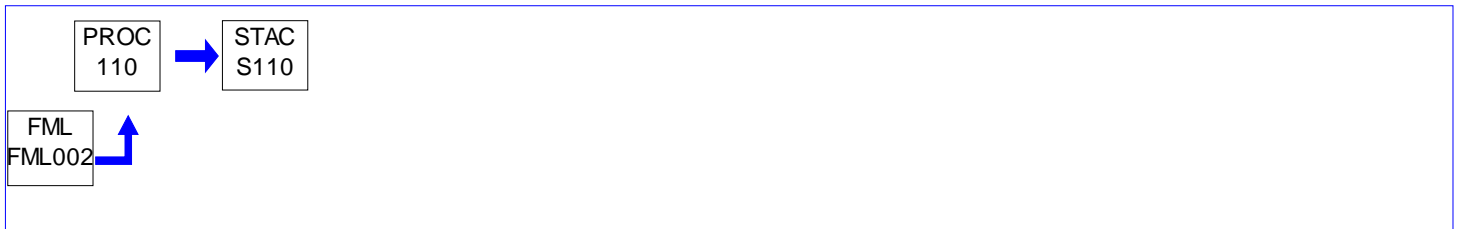
Source ID: 110

Source Name: EMERGENCY GENERATOR

Source Capacity/Throughput:

69.300 Gal/HR

Diesel Fuel

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.13]****Processes**

No person may permit the emission into the outdoor atmosphere of particulate matter from this process in a manner that the concentration of particulate matter in the effluent gas exceeds .04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

002 [25 Pa. Code §123.21]**General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

003 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The NO_x emissions from engine shall be less than 100 lbs/ hr, 1000 lbs/day, 2.75 tons during the ozone season (May 1 through September 30 of each year) , and 6.6 TPY (based on a 12-month rolling total).

Fuel Restriction(s).**# 004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6604]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What fuel requirements must I meet if I own or operate an existing stationary CI RICE?**

(a) Not applicable.

(b) Beginning January 1, 2015, if you own or operate an existing emergency CI stationary RICE with a site rating of more than 100 brake HP and a displacement of less than 30 liters per cylinder that uses diesel fuel and operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii), you must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted.

§80.510 What are the standards and marker requirements for refiners and importers for NRLM diesel fuel and ECA marine fuel?

(b) Beginning June 1, 2010. Except as otherwise specifically provided in this subpart, all NR and LM diesel fuel is subject to the following per-gallon standards:

(1) Sulfur content.

(i) 15 ppm maximum for NR diesel fuel.

(ii) [Does not apply]

**SECTION D. Source Level Requirements**

(2) Cetane index or aromatic content, as follows:

- (i) A minimum cetane index of 40; or
- (ii) A maximum aromatic content of 35 volume percent.

(c) - (d) [Do not apply]

[78 FR 6702, Jan. 30, 2013]

Operation Hours Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The hours of operation of the emergency generator shall not exceed 500 hours in a 12 month rolling period.

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?**

(f) If you own or operate an emergency stationary RICE, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1) through (4) of this section. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (4) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

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

(2) You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

(i) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

(ii) - (iii) [Paragraphs 63.6640(f)(2)(ii)-(iii) were vacated by the U.S. Court of Appeals on May 1, 2015.]

(3) [Does not apply]

(4) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraphs (f)(4)(i) and (ii) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(i) [Does not apply]

(ii) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement

**SECTION D. Source Level Requirements**

with another entity if all of the following conditions are met:

- (A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.
- (B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
- (C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
- (D) The power is provided only to the facility itself or to support the local transmission and distribution system.
- (E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What are my monitoring, installation, operation, and maintenance requirements?

(a) - (d) [Do not apply]

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

(1) - (2) [Do not apply]

(3) An existing emergency or black start stationary RICE located at an area source of HAP emissions;

(4) - (10) [Do not apply]

(f) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed.

(g) [Does not apply]

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

(i) If you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must

**SECTION D. Source Level Requirements**

be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

(j) [Does not apply]

[69 FR 33506, June 15, 2004, as amended at 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010; 76 FR 12866, Mar. 9, 2011; 78 FR 6703, Jan. 30, 2013]

IV. RECORDKEEPING REQUIREMENTS.**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The facility shall maintain sufficient records to determine compliance with the restriction on hours of operation including the times the source is operated (hours, date, and duration of each time the engine is operated and the reason the source was operated).

(b) The facility shall keep a record of the date of the electrical interruption, the cause of the electrical interruption, and the duration of the electrical interruption.

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What records must I keep?**

(a) If you must comply with the emission and operating limitations, you must keep the records described in paragraphs (a)(1) through (a)(5), (b)(1) through (b)(3) and (c) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv).

(2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

(3) [Does not apply]

(4) Records of all required maintenance performed on the air pollution control and monitoring equipment.

(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with § 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(b) - (c) [Do not apply]

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

(e) You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated

**SECTION D. Source Level Requirements**

and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE;

(1) Does not apply]

(2) An existing stationary emergency RICE.

(3) [Does not apply]

(f) If you own or operate any of the stationary RICE in paragraphs (f)(1) through (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in § 63.6640(f)(2)(ii) or (iii) or § 63.6640(f)(4)(ii), the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.

(1) [Does not apply]

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

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010; 75 FR 51592, Aug. 20, 2010; 78 FR 6706, Jan. 30, 2013]

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6660]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

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

(a) Your records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010]

V. REPORTING REQUIREMENTS.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?

(b) You must report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in § 63.6650. If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to your stationary RICE.

(c) - (d) [Do not apply]

(e) You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. [Non-applicable text omitted.]

**SECTION D. Source Level Requirements****# 012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6650]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What reports must I submit and when?**

(a) You must submit each report in Table 7 of this subpart that applies to you.

 [Table 7 to Subpart ZZZZ of Part 63]

As stated in §63.6650, you must comply with the following requirements for reports:

4. For each emergency stationary RICE that operate or are contractually obligated to be available for more than 15 hours per year for the purposes specified in §63.6640(f)(2)(ii) and (iii) or that operate for the purposes specified in §63.6640(f)(4)(ii), you must submit a report. The report must contain:

a. a. The information in §63.6650(h)(1)

The permittee must submit the report:

i. annually according to the requirements in §63.6650(h)(2)-(3).

[78 FR 6719, Jan. 30, 2013]

 (b) - (e) [Do not apply]

(f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.

(g) [Does not apply]

(h) If you own or operate an emergency stationary RICE with a site rating of more than 100 brake HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in § 63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in § 63.6640(f)(4)(ii), you must submit an annual report according to the requirements in paragraphs (h)(1) through (3) of this section.

(1) The report must contain the following information:

(i) Company name and address where the engine is located.

(ii) Date of the report and beginning and ending dates of the reporting period.

(iii) Engine site rating and model year.

(iv) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.

(v) - (vi) [Paragraphs 63.6640(f)(2)(ii)-(iii) were vacated by the U.S. Court of Appeals on May 1, 2015.]

(vii) Hours spent for operation for the purpose specified in § 63.6640(f)(4)(ii), including the date, start time, and end time for engine operation for the purposes specified in § 63.6640(f)(4)(ii). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.

**SECTION D. Source Level Requirements**

(viii) If there were no deviations from the fuel requirements in § 63.6604 that apply to the engine (if any), a statement that there were no deviations from the fuel requirements during the reporting period.

(ix) If there were deviations from the fuel requirements in § 63.6604 that apply to the engine (if any), information on the number, duration, and cause of deviations, and the corrective action taken.

(2) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.

(3) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in § 63.13.

[69 FR 33506, June 15, 2004, as amended at 75 FR 9677, Mar. 3, 2010; 78 FR 6705, Jan. 30, 2013]

VI. WORK PRACTICE REQUIREMENTS.**# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The emergency generator shall only be used during electrical interruption, to perform load testing or to perform preventive maintenance. The emergency generator shall not be used to supplement the primary power supply to the facility.

014 [25 Pa. Code §129.97]**Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule.**

(c) The owner and operator of a source specified in this subsection, which is located at a major NOx emitting facility or major VOC emitting facility subject to § 129.96 shall install, maintain and operate the source in accordance with the manufacturer's specifications and with good operating practices:

(1) - (7) [Do not apply]

(8) An emergency standby engine operating less than 500 hours in a 12-month rolling period.

015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6603]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?**

(a) If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart and the operating limitations in Table 2b to this subpart that apply to you.

[Table 2d to Subpart ZZZZ of Part 63]

As stated in §§63.6603 and 63.6640, you must comply with the following requirements for existing stationary RICE located at area sources of HAP emissions:

4. For each emergency stationary CI RICE and black start stationary CI RICE**, you must meet the following requirement, except during periods of startup:

- a. Change oil and filter every 500 hours of operation or annually, whichever comes first;*
- b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
- c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

During periods of startup you must minimize the engine's time spent at idle and minimize the engine's startup time at

**SECTION D. Source Level Requirements**

startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

*[Sources have the option to utilize an oil analysis program as described in §63.6625(i) or (j) in order to extend the specified oil change requirement in Table 2d of this subpart.]

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

[78 FR 6709, Jan. 30, 2013]

(b) - (f) [Do not apply]

[75 FR 9675, Mar. 3, 2010, as amended at 75 FR 51589, Aug. 20, 2010; 76 FR 12866, Mar. 9, 2011; 78 FR 6701, Jan. 30, 2013]

016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6605]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations, operating limitations, and other requirements in this subpart that apply to you at all times.

(b) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[75 FR 9675, Mar. 3, 2010, as amended at 78 FR 6702, Jan. 30, 2013]

017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?

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

[Table 6 to Subpart ZZZZ of Part 63]

As stated in §63.6640, you must continuously comply with the emissions and operating limitations and work or management practices as required by the following:

9. For each existing emergency and black start stationary RICE located at an area source of HAP, complying with work or management practices, you must demonstrate continuous compliance by:

**SECTION D. Source Level Requirements**

- i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or
- ii. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[78 FR 6715, Jan. 30, 2013]

(b) - (e) [Printed under Reporting Requirements in this section of permit.]

(f) [Printed under Restrictions in this section of permit.]

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010; 78 FR 6704, Jan. 30, 2013]

VII. ADDITIONAL REQUIREMENTS.**# 018 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6580]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What is the purpose of subpart ZZZZ?**

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

[73 FR 3603, Jan. 18, 2008]

019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****Am I subject to this subpart?**

You are subject to this subpart if you own or operate a stationary RICE at a major or area source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/stand.

(a) A stationary RICE is any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.

(b) A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site.

(c) An area source of HAP emissions is a source that is not a major source.

(d) - (f) [Do not apply]

[69 FR 33506, June 15, 2004, as amended at 73 FR 3603, Jan. 18, 2008; 78 FR 6700, Jan. 30, 2013]

020 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6590]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What parts of my plant does this subpart cover?**

This subpart applies to each affected source.

**SECTION D. Source Level Requirements**

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

(1) Existing stationary RICE.

(i) - (ii) [Do not apply]

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

(iv) A change in ownership of an existing stationary RICE does not make that stationary RICE a new or reconstructed stationary RICE.

(2) - (3) [Do not apply]

(b) - (c) [Do not apply]

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008; 75 FR 9674, Mar. 3, 2010; 75 FR 37733, June 30, 2010; 75 FR 51588, Aug. 20, 2010; 78 FR 6700, Jan. 30, 2013]

021 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6595]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

When do I have to comply with this subpart?

(a) Affected sources. (1) If you have an existing stationary RICE, excluding existing non-emergency CI stationary RICE, with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the applicable emission limitations, operating limitations and other requirements no later than June 15, 2007. If you have an existing non-emergency CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, an existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than May 3, 2013. If you have an existing stationary SI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary SI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than October 19, 2013.

(2) - (7) [Do not apply]

(b) [Does not apply]

(c) If you own or operate an affected source, you must meet the applicable notification requirements in §63.6645 and in 40 CFR part 63, subpart A.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008; 75 FR 9675, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010; 78 FR 6701, Jan. 30, 2013]

022 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6665]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What parts of the General Provisions apply to me?

Table 8 to this subpart shows which parts of the General Provisions in §§ 63.1 through 63.15 apply to you. [Non-applicable text omitted.]

[Refer to Table 8 in 40 CFR 63 Subpart ZZZZ for the General Provisions.]

[75 FR 9678, Mar. 3, 2010]

**SECTION D. Source Level Requirements****# 023 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6670]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****Who implements and enforces this subpart?**

(a) This subpart is implemented and enforced by the U.S. EPA, or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency (as well as the U.S. EPA) has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out whether this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under 40 CFR part 63, subpart E, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are:

- (1) Approval of alternatives to the non-opacity emission limitations and operating limitations in § 63.6600 under § 63.6(g).
- (2) Approval of major alternatives to test methods under § 63.7(e)(2)(ii) and (f) and as defined in § 63.90.
- (3) Approval of major alternatives to monitoring under § 63.8(f) and as defined in § 63.90.
- (4) Approval of major alternatives to recordkeeping and reporting under § 63.10(f) and as defined in § 63.90.
- (5) Approval of a performance test which was conducted prior to the effective date of the rule, as specified in § 63.6610(b).

024 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6675]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What definitions apply to this subpart?**

[Refer to 40 CFR §63.6675 for definitions applicable to Subpart ZZZZ.]

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

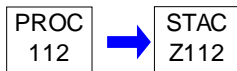
Source ID: 112

Source Name: GASOLINE STORAGE TANK

Source Capacity/Throughput:

N/A

GASOLINE

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11125]

Subpart CCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities

What are my recordkeeping requirements?

(a) - (c) [Do not apply]

(d) Each owner or operator of an affected source under this subpart shall keep records as specified in paragraphs (d)(1) and (2) of this section.

(1) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

(2) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.11115(a), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

[73 FR 1945, Jan. 10, 2008, as amended at 76 FR 4183, Jan. 24, 2011]

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11115]

Subpart CCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities

What are my general duties to minimize emissions?

Each owner or operator of an affected source under this subpart must comply with the requirements of paragraphs (a) and (b) of this section.

**SECTION D. Source Level Requirements**

(a) You must, at all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

(b) You must keep applicable records and submit reports as specified in §63.11125(d) and §63.11126(b).

[76 FR 4182, Jan. 24, 2011]

003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11116]

Subpart CCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities Requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline.

(a) You must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:

- (1) Minimize gasoline spills;
- (2) Clean up spills as expeditiously as practicable;
- (3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;
- (4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

(b) You are not required to submit notifications or reports as specified in §63.11125, §63.11126, or subpart A of this part, but you must have records available within 24 hours of a request by the Administrator to document your gasoline throughput.

(c) You must comply with the requirements of this subpart by the applicable dates specified in §63.11113.

(d) Portable gasoline containers that meet the requirements of 40 CFR part 59, subpart F, are considered acceptable for compliance with paragraph (a)(3) of this section.

[73 FR 1945, Jan. 10, 2008, as amended at 76 FR 4182, Jan. 24, 2011]

VII. ADDITIONAL REQUIREMENTS.

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11110]

Subpart CCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities What is the purpose of this subpart?

This subpart establishes national emission limitations and management practices for hazardous air pollutants (HAP) emitted from the loading of gasoline storage tanks at gasoline dispensing facilities (GDF). This subpart also establishes requirements to demonstrate compliance with the emission limitations and management practices.

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11111]

Subpart CCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities Am I subject to the requirements in this subpart?

(a) The affected source to which this subpart applies is each GDF that is located at an area source. The affected source includes each gasoline cargo tank during the delivery of product to a GDF and also includes each storage tank.

(b) If your GDF has a monthly throughput of less than 10,000 gallons of gasoline, you must comply with the requirements in §63.11116.

(c) - (d) [Do not apply]

(e) An affected source shall, upon request by the Administrator, demonstrate that their monthly throughput is less than the

**SECTION D. Source Level Requirements**

10,000-gallon or the 100,000-gallon threshold level, as applicable. For new or reconstructed affected sources, as specified in §63.11112(b) and (c), recordkeeping to document monthly throughput must begin upon startup of the affected source. For existing sources, as specified in §63.11112(d), recordkeeping to document monthly throughput must begin on January 10, 2008. For existing sources that are subject to this subpart only because they load gasoline into fuel tanks other than those in motor vehicles, as defined in §63.11132, recordkeeping to document monthly throughput must begin on January 24, 2011. Records required under this paragraph shall be kept for a period of 5 years.

(f) - (g) [Do not apply]

(h) Monthly throughput is the total volume of gasoline loaded into, or dispensed from, all the gasoline storage tanks located at a single affected GDF. If an area source has two or more GDF at separate locations within the area source, each GDF is treated as a separate affected source.

(i) If your affected source's throughput ever exceeds an applicable throughput threshold, the affected source will remain subject to the requirements for sources above the threshold, even if the affected source throughput later falls below the applicable throughput threshold.

(j) The dispensing of gasoline from a fixed gasoline storage tank at a GDF into a portable gasoline tank for the on-site delivery and subsequent dispensing of the gasoline into the fuel tank of a motor vehicle or other gasoline-fueled engine or equipment used within the area source is only subject to §63.11116 of this subpart.

(k) [Does not apply]

[73 FR 1945, Jan. 10, 2008, as amended at 76 FR 4181, Jan. 24, 2011]

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11112]

Subpart CCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities

What parts of my affected source does this subpart cover?

(a) The emission sources to which this subpart applies are gasoline storage tanks and associated equipment components in vapor or liquid gasoline service at new, reconstructed, or existing GDF that meet the criteria specified in §63.11111. Pressure/Vacuum vents on gasoline storage tanks and the equipment necessary to unload product from cargo tanks into the storage tanks at GDF are covered emission sources. The equipment used for the refueling of motor vehicles is not covered by this subpart.

(b) An affected source is a new affected source if you commenced construction on the affected source after November 9, 2006, and you meet the applicability criteria in §63.11111 at the time you commenced operation.

(c) [Does not apply]

(d) An affected source is an existing affected source if it is not new or reconstructed.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11113]

Subpart CCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities

When do I have to comply with this subpart?

(a) If you have a new or reconstructed affected source, you must comply with this subpart according to paragraphs (a)(1) and (2) of this section, except as specified in paragraph (d) of this section.

(1) If you start up your affected source before January 10, 2008, you must comply with the standards in this subpart no later than January 10, 2008.

(2) If you start up your affected source after January 10, 2008, you must comply with the standards in this subpart upon startup of your affected source.

(b) If you have an existing affected source, you must comply with the standards in this subpart no later than January 10, 2011.

**SECTION D. Source Level Requirements**

(c) - (e) [Do not apply]

(f) If your GDF is subject to the control requirements in this subpart only because it loads gasoline into fuel tanks other than those in motor vehicles, as defined in §63.11132, you must comply with the standards in this subpart as specified in paragraphs (f)(1) or (f)(2) of this section.

(1) If your GDF is an existing facility, you must comply by January 24, 2014.

(2) If your GDF is a new or reconstructed facility, you must comply by the dates specified in paragraphs (f)(2)(i) and (ii) of this section.

(i) If you start up your GDF after December 15, 2009, but before January 24, 2011, you must comply no later than January 24, 2011.

(ii) If you start up your GDF after January 24, 2011, you must comply upon startup of your GDF.

[73 FR 1945, Jan. 10, 2008, as amended at 73 FR 35944, June 25, 2008; 76 FR 4181, Jan. 24, 2011]

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11130]

**Subpart CCCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities
What parts of the General Provisions apply to me?**

Table 3 to this subpart shows which parts of the General Provisions apply to you.

[Refer to Table 3 to Subpart CCCCCC of Part 63]

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11131]

**Subpart CCCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities
Who implements and enforces this subpart?**

(a) This subpart can be implemented and enforced by the U.S. EPA or a delegated authority such as the applicable State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to a State, local, or tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce this subpart. Contact the applicable U.S. EPA Regional Office to find out if implementation and enforcement of this subpart is delegated to a State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of U.S. EPA and cannot be transferred to the State, local, or tribal agency.

(c) The authorities that cannot be delegated to State, local, or tribal agencies are as specified in paragraphs (c)(1) through (3) of this section.

(1) Approval of alternatives to the requirements in §§63.11116 through 63.11118 and 63.11120.

(2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f), as defined in §63.90, and as required in this subpart.

(3) Approval of major alternatives to recordkeeping and reporting under §63.10(f), as defined in §63.90, and as required in this subpart.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11132]

**Subpart CCCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities
What definitions apply to this subpart?**

[Refer to 40 CFR §63.11132 for definitions applicable to Subpart CCCCCC.]

*** **Permit Shield in Effect.** ***

**SECTION E. Source Group Restrictions.**

Group Name: 1 PART 63 SUBPART 6S

Group Description: This source group contains applicable requirements from Part 63, Subpart SSSSSS, NESHAPS

Sources included in this group

ID	Name
101	FURNACE 1
103	FURNACE 3

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §123.21]****General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11451]**Subpart SSSSSS - National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources
What are the standards for new and existing sources?**

If you are an owner or operator of an affected furnace, as defined in §63.11449(a), you must meet the applicable emission limit specified in Table 1 to this subpart.

[Table 1 to Subpart SSSSSS of Part 63—Emission Limits]

As required in §63.11451, you must comply with each emission limit that applies to you according to the following table:

1. For each new or existing glass melting furnace that produces glass at an annual rate of at least 45 mg/yr (50tpy) AND is charged with compounds of arsenic, cadmium, chromium, manganese, lead, or nickel as raw materials, you must meet one of the following emission limits:

- a. The 3-hour block average production-based PM mass emission rate must not exceed 0.1 gram per kilogram (g/kg) (0.2 pounds per ton (lb/ton)) of glass produced; OR
- b. The 3-hour block average production-based metal HAP mass emission rate must not exceed 0.01 g/kg (0.02 lb/ton) of glass produced.

II. TESTING REQUIREMENTS.**# 003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11452]****Subpart SSSSSS - National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources
What are the performance test requirements for new and existing sources?**

(a) If you own or operate an affected furnace that is subject to an emission limit specified in Table 1 to this subpart, you must conduct a performance test according to paragraphs (a)(1) through (3) and paragraph (b) of this section.

(1) For each affected furnace, you must conduct a performance test within 180 days after your compliance date and report the results in your Notification of Compliance Status, except as specified in paragraph (a)(2) of this section.

(2) You are not required to conduct a performance test on the affected furnace if you satisfy the conditions described in paragraphs (a)(2)(i) through (iii) of this section.

(i) You conducted a performance test on the affected furnace within the past 5 years of the compliance date using the same test methods and procedures specified in paragraph (b) of this section.

(ii) The performance test demonstrated that the affected furnace met the applicable emission limit specified in Table 1 to this subpart.

(iii) Either no process changes have been made since the test, or you can demonstrate that the results of the

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performance test, with or without adjustments, reliably demonstrate compliance with the applicable emission limit.

(3) If you operate multiple identical furnaces, as defined in §63.11459, that are affected furnaces, you are required to test only one of the identical furnaces if you meet the conditions specified in paragraphs (a)(3)(i) through (iii) of this section.

(i) You must conduct the performance test while the furnace is producing glass that has the greatest potential to emit the glass manufacturing metal HAP from among the glass formulations that are used in any of the identical furnaces.

(ii) You certify in your Notification of Compliance Status that the identical furnaces meet the definition of identical furnaces specified in §63.11459.

(iii) You provide in your Notification of Compliance Status documentation that demonstrates why the tested glass formulation has the greatest potential to emit the glass manufacturing metal HAP.

(b) You must conduct each performance test according to the requirements in §63.7 and paragraphs (b)(1) through (12) and either paragraph (b)(13) or (b)(14) of this section.

(1) Install and validate all monitoring equipment required by this subpart before conducting the performance test.

(2) You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in §63.7(e)(1).

(3) Conduct the test while the source is operating at the maximum production rate.

(4) Conduct at least three separate test runs with a minimum duration of 1 hour for each test run, as specified in §63.7(e)(3).

(5) Record the test date.

(6) Identify the emission source tested.

(7) Collect and record the emission test data listed in this section for each run of the performance test.

(8) Locate all sampling sites at the outlet of the furnace control device or at the furnace stack prior to any releases to the atmosphere.

(9) Select the locations of sampling ports and the number of traverse points using Method 1 or 1A of 40 CFR part 60, appendix A-1.

(10) Measure the gas velocity and volumetric flow rate using Method 2, 2A, 2C, 2F, or 2G of 40 CFR part 60, appendices A-1 and A-2, during each test run.

(11) Conduct gas molecular weight analysis using Methods 3, 3A, or 3B of 40 CFR part 60, appendix A-2, during each test run. You may use ANSI/ASME PTC 19.10-1981, Flue and Exhaust Gas Analyses (incorporated by reference—see §63.14) as an alternative to EPA Method 3B.

(12) Measure gas moisture content using Method 4 of 40 CFR part 60, appendix A-3, during each test run.

(13) To meet the particulate matter (PM) emission limit specified in Table 1 to this subpart, you must conduct the procedures specified in paragraphs (b)(13)(i) through (v) of this section.

(i) Measure the PM mass emission rate at the outlet of the control device or at the stack using Method 5 or 17 of 40 CFR part 60, appendices A-3 or A-6, for each test run.

(ii) Calculate the PM mass emission rate in the exhaust stream for each test run.

(iii) Measure and record the glass production rate (kilograms (tons) per hour of product) for each test run.

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(iv) Calculate the production-based PM mass emission rate (g/kg (lb/ton)) for each test run using Equation 1 of this section.

$$MP = (E \cdot R) / P \quad \text{[Equation 1]}$$

Where:

MP = Production-based PM mass emission rate, grams of PM per kilogram (pounds of PM per ton) of glass produced.

ER = PM mass emission rate measured using Methods 5 or 17 during each performance test run, grams (pounds) per hour.

P = Average glass production rate for the performance test, kilograms (tons) of glass produced per hour.

(v) Calculate the 3-hour block average production-based PM mass emission rate as the average of the production-based PM mass emission rates for each test run.

(14) To meet the metal HAP emission limit specified in Table 1 to this subpart, you must conduct the procedures specified in paragraphs (b)(14)(i) through (v) of this section.

(i) Measure the metal HAP mass emission rate at the outlet of the control device or at the stack using Method 29 of 40 CFR part 60, appendix A-8, for each test run.

(ii) Calculate the metal HAP mass emission rate in the exhaust stream for the glass manufacturing metal HAP that are added as raw materials to the glass manufacturing formulation for each test run.

(iii) Measure and record the glass production rate (kilograms (tons) per hour of product) for each test run.

(iv) Calculate the production-based metal HAP mass emission rate (g/kg (lb/ton)) for each test run using Equation 2 of this section.

$$MPM = (E \cdot R \cdot M) / P \quad \text{[Equation 2]}$$

Where:

MPM = Production-based metal HAP mass emission rate, grams of metal HAP per kilogram (pounds of metal HAP per ton) of glass produced.

ERM = Sum of the metal HAP mass emission rates for the glass manufacturing metal HAP that are added as raw materials to the glass manufacturing formulation and are measured using Method 29 during each performance test run, grams (pounds) per hour.

P = Average glass production rate for the performance test, kilograms (tons) of glass produced per hour.

(v) Calculate the 3-hour block average production-based metal HAP mass emission rate as the average of the production-based metal HAP mass emission rates for each test run.

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11457]

Subpart SSSSSS - National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources

What are the recordkeeping requirements?

(a) You must keep the records specified in paragraphs (a)(1) through (8) of this section.

(1) A copy of any Initial Notification and Notification of Compliance Status that you submitted and all documentation supporting those notifications, according to the requirements in §63.10(b)(2)(xiv).

(2) The records specified in §63.10(b)(2) and (c)(1) through (13).

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(3) The records required to show continuous compliance with each emission limit that applies to you, as specified in §63.11455.

(4) For each affected source, records of production rate on a process throughput basis (either feed rate to the process unit or discharge rate from the process unit). The production data must include the amount (weight or weight percent) of each ingredient in the batch formulation, including all glass manufacturing metal HAP compounds.

(5) [Does not apply]

(6) Records of all required monitoring data and supporting information including all calibration and maintenance records.

(7) [Does not apply]

(8) Records of any approved alternative monitoring method(s) or test procedure(s).

(b) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(c) You must record the results of each inspection and maintenance action in a logbook (written or electronic format). You must keep the logbook onsite and make the logbook available to the permitting authority upon request.

(d) As specified in §63.10(b)(1), you must keep each record for a minimum of 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

You must keep each record onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You may keep the records offsite for the remaining three years.

V. REPORTING REQUIREMENTS.**# 005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11450]****Subpart SSSSSS - National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources**
What are my compliance dates?

(a) If you have an existing affected source, you must comply with the applicable emission limits specified in §63.11451 of this subpart no later than December 28, 2009. As specified in section 112(i)(3)(B) of the Clean Air Act and in §63.6(i)(4)(A), you may request that the Administrator or delegated authority grant an extension allowing up to 1 additional year to comply with the applicable emission limits if such additional period is necessary for the installation of emission controls.

(b) - (d) [Do not apply]

(e) You must meet the notification requirements in §63.11456 according to the schedule in §63.11456 and in 40 CFR part 63, subpart A. Some of the notifications must be submitted before you are required to comply with emission limits specified in this subpart.

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11456]**Subpart SSSSSS - National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources**
What are the notification requirements?

(a) If you own or operate an affected furnace, as defined in §63.11449(a), you must submit an Initial Notification in accordance with §63.9(b) and paragraphs (a)(1) and (2) of this section by the dates specified.

(1) As specified in §63.9(b)(2), if you start up your affected source before December 26, 2007, you must submit an Initial Notification not later than April 24, 2008 or within 120 days after your affected source becomes subject to the standard.

(2) The Initial Notification must include the information specified in §63.9(b)(2)(i) through (iv).

(b) You must submit a Notification of Compliance Status in accordance with §63.9(h) and the requirements in paragraphs (b)(1) and (2) of this section.

(1) If you own or operate an affected furnace and are required to conduct a performance test, you must submit a Notification of Compliance Status, including the performance test results, before the close of business on the 60th day

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following the completion of the performance test, according to §60.8 or §63.10(d)(2).

(2) If you own or operate an affected furnace and satisfy the conditions specified in §63.11452(a)(2) and are not required to conduct a performance test, you must submit a Notification of Compliance Status, including the results of the previous performance test, before the close of business on the compliance date specified in §63.11450.

VI. WORK PRACTICE REQUIREMENTS.**# 007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11455]****Subpart SSSSSS - National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources
What are the continuous compliance requirements for new and existing sources?**

(a) You must be in compliance with the applicable emission limits in this subpart at all times, except during periods of startup, shutdown, and malfunction.

(b) You must always operate and maintain your affected source, including monitoring equipment, according to the provisions in §63.6(e)(1)(i).

(c) - (d) [Do not apply]

(e) For each affected furnace that is subject to the emission limit specified in Table 1 to this subpart and can meet the applicable emission limit without the use of a control device, you must demonstrate continuous compliance by satisfying the applicable recordkeeping requirements specified in §63.11457.

VII. ADDITIONAL REQUIREMENTS.**# 008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11448]****Subpart SSSSSS - National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources
Am I subject to this subpart?**

You are subject to this subpart if you own or operate a glass manufacturing facility that is an area source of hazardous air pollutant (HAP) emissions and meets all of the criteria specified in paragraphs (a) through (c) of this section.

(a) A glass manufacturing facility is a plant site that manufactures flat glass, glass containers, or pressed and blown glass by melting a mixture of raw materials, as defined in §63.11459, to produce molten glass and form the molten glass into sheets, containers, or other shapes.

(b) An area source of HAP emissions is any stationary source or group of stationary sources within a contiguous area under common control that does not have the potential to emit any single HAP at a rate of 9.07 megagrams per year (Mg/yr) (10 tons per year (tpy)) or more and any combination of HAP at a rate of 22.68 Mg/yr (25 tpy) or more.

(c) Your glass manufacturing facility uses one or more continuous furnaces to produce glass that contains compounds of one or more glass manufacturing metal HAP, as defined in §63.11459, as raw materials in a glass manufacturing batch formulation.

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11449]**Subpart SSSSSS - National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources
What parts of my plant does this subpart cover?**

(a) This subpart applies to each existing or new affected glass melting furnace that is located at a glass manufacturing facility and satisfies the requirements specified in paragraphs (a)(1) through (3) of this section.

(1) The furnace is a continuous furnace, as defined in §63.11459.

(2) The furnace is charged with compounds of one or more glass manufacturing metal HAP as raw materials.

(3) The furnace is used to produce glass, which contains one or more of the glass manufacturing metal HAP as raw materials, at a rate of at least 45 Mg/yr (50 tpy).

(b) [Does not apply]

(c) An affected source is an existing source if you commenced construction or reconstruction of the affected source on or

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before September 20, 2007.

(d) [Does not apply]

(e) If you own or operate an area source subject to this subpart, you must obtain a permit under 40 CFR part 70 or 40 CFR part 71.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11453]

**Subpart SSSSSS - National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources
What are the initial compliance demonstration requirements for new and existing sources?**

(a) If you own or operate an affected source, you must submit a Notification of Compliance Status in accordance with §§63.9(h) and 63.11456(b).

(b) For each existing affected furnace that is subject to the emission limits specified in Table 1 to this subpart, you must demonstrate initial compliance according to the requirements in paragraphs (b)(1) through (4) of this section.

(1) - (3) [Do not apply]

(4) You must satisfy the applicable requirements for performance tests specified in §63.11452.

(c) - (e) [Do not apply]

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11458]

**Subpart SSSSSS - National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources
What General Provisions apply to this subpart?**

You must satisfy the requirements of the General Provisions in 40 CFR part 63, subpart A as specified in Table 2 to this subpart.

[Refer to Table 2 in 40 CFR 63 Subpart SSSSSS for the General Provisions.]

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11459]

**Subpart SSSSSS - National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources
What definitions apply to this subpart?**

[Refer to 40 CFR §63.11459 for definitions applicable to Subpart SSSSSS.]

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11460]

**Subpart SSSSSS - National Emission Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources
Who implements and enforces this subpart?**

(a) This subpart can be implemented and enforced by the U.S. EPA, or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under 40 CFR part 63, subpart E, the authorities contained in paragraphs (b)(1) through (4) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(1) Approval of alternatives to the applicability requirements in §§63.11448 and 63.11449, the compliance date requirements in §63.11450, and the emission limits specified in §63.11451.

(2) Approval of a major change to test methods under §63.7(e)(2)(ii) and (f) and as defined in §63.90.

(3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.

(4) Approval of major alternatives to recordkeeping under §63.10(f) and as defined in §63.90.

*** **Permit Shield in Effect.** ***

**SECTION E. Source Group Restrictions.**

Group Name: 2 PART 60 SUBPART CC

Group Description: This source group contains applicable requirements from Part 60, Subpart CC, NSPS for Glass

Sources included in this group

ID	Name
101	FURNACE 1
103	FURNACE 3

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.293]****Subpart CC - Standards of Performance for Glass Manufacturing Plants
Standards for particulate matter from glass melting furnace with modified-processes.**

(b) On and after the date on which the performance test required to be conducted by §60.8 is completed, no owner or operator of a glass melting furnace with modified-processes subject to the provisions of this subpart shall cause to be discharged into the atmosphere from the affected facility:

(1) Particulate matter at emission rates exceeding 0.5 gram of particulate per kilogram of glass produced (g/kg) as measured according to paragraph (e) of this section for container glass, flat glass, and pressed and blown glass with a soda-lime recipe melting furnaces.

(2) - (3) [Do not apply]

[Compliance with this condition ensures compliance with 25 Pa Code 123.13.]

II. TESTING REQUIREMENTS.**# 002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.293]****Subpart CC - Standards of Performance for Glass Manufacturing Plants
Standards for particulate matter from glass melting furnace with modified-processes.**

(f) Test methods and procedures as specified in §60.296 shall be used to determine compliance with this section except that to determine compliance for any glass melting furnace using modified processes and fired with either a gaseous fuel or a liquid fuel containing less than 0.50 weight percent sulfur, Method 5 shall be used with the probe and filter holder heating system in the sampling train set to provide a gas temperature of 120 ±14 °C (248 ±25 °F).

003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.296]**Subpart CC - Standards of Performance for Glass Manufacturing Plants
Test methods and procedures.**

(a) - (b) [Do not apply]

(c) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b).

(d) The owner or operator shall determine compliance with the particulate matter standards in §§60.292 and 60.293 as follows:

(1) The emission rate (E) of particulate matter shall be computed for each run using the following equation:

$$E = (cs \text{ Qsd}-A)/P$$

where:

E = emission rate of particulate matter, g/kg.

cs = concentration of particulate matter, g/dsm.

Qsd = volumetric flow rate, dscm/hr.

A = zero production rate correction

= 227 g/hr for container glass, pressed and blown (soda-lime and lead) glass, and pressed and blown (other than

**SECTION E. Source Group Restrictions.**

borosilicate, soda-lime, and lead) glass.

= 454 g/hr for pressed and blown (borosilicate) glass, wool fiberglass, and flat glass.

P = glass production rate, kg/hr.

(2) Method 5 shall be used to determine the particulate matter concentration (cs) and volumetric flow rate (Qsd) of the effluent gas. The sampling time and sample volume for each run shall be at least 60 minutes and 0.90 dscm (31.8 dscf). The probe and filter holder heating system may be set to provide a gas temperature no greater than 177 ± 14 °C (350 ± 25 °F), except under the conditions specified in §60.293(e).

(3) Direct measurement or material balance using good engineering practice shall be used to determine the amount of glass pulled during the performance test. The rate of glass produced is defined as the weight of glass pulled from the affected facility during the performance test divided by the number of hours taken to perform the performance test.

(4) Method 9 and the procedures in §60.11 shall be used to determine opacity.

[54 FR 6674, Feb. 14, 1989; 54 FR 21344, May 17, 1989, as amended at 65 FR 61759, Oct. 17, 2000]

III. MONITORING REQUIREMENTS.**# 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.293]****Subpart CC - Standards of Performance for Glass Manufacturing Plants****Standards for particulate matter from glass melting furnace with modified-processes.**

(c) The owner or operator of an affected facility that is subject to emission limits specified under paragraph (b) of this section shall:

(1) Install, calibrate, maintain, and operate a continuous monitoring system for the measurement of the opacity of emissions discharged into the atmosphere from the affected facility.

(2) During the performance test required to be conducted by §60.8, conduct continuous opacity monitoring during each test run.

(3) Calculate 6-minute opacity averages from 24 or more data points equally spaced over each 6-minute period during the test runs.

(4) Determine, based on the 6-minute opacity averages, the opacity value corresponding to the 99 percent upper confidence level of a normal distribution of average opacity values.

(5) [Printed under Reporting Requirements in this section of permit.]

(e) An owner or operator may redetermine the opacity value corresponding to the 99 percent upper confidence level as described in paragraph (c)(4) of this section if the owner or operator:

(1) Conducts continuous opacity monitoring during each test run of a performance test that demonstrates compliance with an emission limit of paragraph (b) of this section,

(2) Recalculates the 6-minute opacity averages as described in paragraph (c)(3) of this section, and

(3) Uses the redetermined opacity value corresponding to the 99 percent upper confidence level for the purposes of paragraph (c)(5) of this section.

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**SECTION E. Source Group Restrictions.****V. REPORTING REQUIREMENTS.****# 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.293]****Subpart CC - Standards of Performance for Glass Manufacturing Plants
Standards for particulate matter from glass melting furnace with modified-processes.**

(c) The owner or operator of an affected facility that is subject to emission limits specified under paragraph (b) of this section shall:

(1) - (4) [Printed under Monitoring Requirements in this section of permit.]

(5) For the purposes of §60.7, report to the Administrator as excess emissions all of the 6-minute periods during which the average opacity, as measured by the continuous monitoring system installed under paragraph (c)(1) of this section, exceeds the opacity value corresponding to the 99 percent upper confidence level determined under paragraph (c)(4) of this section.

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.**# 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.290]****Subpart CC - Standards of Performance for Glass Manufacturing Plants
Applicability and designation of affected facility.**

(a) Each glass melting furnace is an affected facility to which the provisions of this subpart apply.

(b) Any facility under paragraph (a) of this section that commences construction or modification after June 15, 1979, is subject to the requirements of this subpart.

(c) This subpart does not apply to hand glass melting furnaces, glass melting furnaces designed to produce less than 4.55 Mg (5 tons) of glass per day and all-electric melters.

[45 FR 66751, Oct. 7, 1980, as amended at 65 FR 61759, Oct. 17, 2000]

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.291]**Subpart CC - Standards of Performance for Glass Manufacturing Plants
Definitions.**

[Refer to 40 CFR §60.291 for definitions applicable to Subpart CC.]

008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.293]**Subpart CC - Standards of Performance for Glass Manufacturing Plants
Standards for particulate matter from glass melting furnace with modified-processes.**

(a) An owner or operator of a glass melting furnaces with modified-processes is not subject to the provisions of §60.292 if the affected facility complies with the provisions of this section.

(b) [Printed under Restrictions in this section of permit.]

(c) [Printed under Monitoring/Reporting Requirements in this section of permit.]

(d)(1) After receipt and consideration of written application, the Administrator may approve alternative continuous monitoring systems for the measurement of one or more process or operating parameters that is or are demonstrated to enable accurate and representative monitoring of an emission limit specified in paragraph (b) of this section.

(2) After the Administrator approves an alternative continuous monitoring system for an affected facility, the requirements of paragraphs (c) (1) through (5) of this section will not apply for that affected facility.

(e) [Printed under Monitoring Requirements in this section of permit.]

(f) [Printed under Testing Requirements in this section of permit.]



SECTION E. Source Group Restrictions.

[49 FR 41036, Oct. 19, 1984, as amended at 64 FR 7466, Feb. 12, 1999; 65 FR 61759, Oct. 17, 2000]

***** Permit Shield in Effect. *****

**SECTION E. Source Group Restrictions.**

Group Name: 3 TREATMENT/SWAB FURNACES

Group Description: This source group contains Hot End Treatment/Mold Swab Furnace work practice requirements.

Sources included in this group

ID	Name
106A	HOT END TREATMENT FURNACE 1
106B	HOT END TREATMENT FURNACE 3
107A	MOLD SWAB FURNACE 1
107B	MOLD SWAB FURNACE 3

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain this source in accordance with manufacturer's specification and good air pollution control practice.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***

**SECTION E. Source Group Restrictions.**

Group Name: 4 GLASS MELTING NOX

Group Description: This source group contains applicable NOx Limits from Title 25, §129.301 - §129.310, for glass

Sources included in this group

ID	Name
101	FURNACE 1
103	FURNACE 3

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §129.304.]****Emission requirements.**

(a) Except as specified in § § 129.303, 129.304(c), 129.305, 129.306 and 129.307, the owner or operator of a glass melting furnace may not operate the glass melting furnace in a manner that results in NOx emissions in excess of the following allowable limits or NOx emission limits contained in the plan approval or operating permit, whichever are lower:

(1) - (5) [Streamlined out by Condition #004 of Plan Approval 42-028B and Condition #002(a) of Plan Approval 42-028E.]

(b) - (c) [Do not apply]

(d) During routine maintenance of an add-on emission control system or systems, or maintenance or repair measures on furnace components, the owner or operator of a glass melting furnace subject to the emission limits specified under subsection (a) is exempt from these limits if:

(1) All routine maintenance of an add-on emission control system or maintenance or repair measures on furnace components, or both, combined, in each calendar year does not exceed 144 hours total.

(2) The routine maintenance or maintenance or repair measure, or both, is conducted in a manner consistent with good air pollution control practices for minimizing emissions.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.**# 002 [25 Pa. Code §129.308.]****Compliance determination.**

(a) Not later than 14 days prior to the applicable compliance date under § 129.304(b) or (c), the owner or operator of a glass melting furnace subject to this section, § § 129.301—129.307, 129.309 and 129.310 shall install, operate and maintain continuous emissions monitoring systems (CEMS, as defined in § 121.1 (relating to definitions)) for NOx and other monitoring systems to convert data to required reporting units in compliance with Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources) and calculate actual emissions using the CEMS data reported to the Department. The owner or operator of a glass melting furnace may install or operate, or both, an alternate NOx emissions monitoring system or method, approved in writing by the Department or appropriate approved local air pollution control agency.

(b) Data invalidated under Chapter 139, Subchapter C, shall be substituted with the following if approved in writing by the Department or appropriate approved local air pollution control agency:

(1) The highest valid 1-hour emission value that occurred under similar source operating conditions during the reporting quarter.

(2) If no valid data were collected during the reporting quarter, one of the following shall be reported to the Department or appropriate approved local air pollution control agency:

**SECTION E. Source Group Restrictions.**

- (i) The highest valid 1-hour emission value that occurred under similar source operating conditions during the most recent quarter for which valid data were collected.
- (ii) The highest valid 1-hour emission value that occurred under similar source operating conditions during an alternative reporting period.
- (3) An alternative method of data substitution.
- (c) Instead of data substitution, the Department or appropriate approved local air pollution control agency may approve an alternative procedure to quantify NO_x emissions and glass production.
- (d) The owner or operator of a glass furnace subject to this section shall submit to the Department or the appropriate approved local air pollution control agencies quarterly reports of CEMS monitoring data in pounds of NO_x emitted per hour, in a format approved by the Department and in compliance with Chapter 139, Subchapter C, or a format approved by the appropriate approved local air pollution control agencies.
- (e) The CEMS or approved monitoring system or method for NO_x installed under this section must meet the minimum data availability requirements in Chapter 139, Subchapter C.

IV. RECORDKEEPING REQUIREMENTS.**# 003 [25 Pa. Code §129.310.]****Recordkeeping.**

- (a) The owner or operator of a glass melting furnace subject to this section and § § 129.301—129.309 shall maintain records to demonstrate compliance. The records must include an operating log maintained for each glass melting furnace that includes, on a daily basis:
 - (1) The total hours of operation.
 - (2) The type and quantity of fuel used.
 - (3) The quantity of glass pulled.
- (b) The owner or operator of a glass melting furnace shall maintain records of:
 - (1) Source tests and operating parameters established during the initial source test.
 - (2) Maintenance, repairs, malfunctions, idling, start-up and shutdown.
- (c) The owner or operator claiming that a glass melting furnace is exempt from the requirements of § § 129.301—129.309 based on the furnace's potential to emit shall maintain records that clearly demonstrate to the Department or appropriate approved local air pollution control agency that the furnace is not subject to § § 129.301—129.309.
- (d) The records required under this section shall be maintained onsite for 5 years. The records shall be made available or submitted to the Department or appropriate approved local air pollution control agency upon request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 004 [25 Pa. Code §129.305.]****Start-up requirements.**

- (a) The owner or operator of the glass melting furnace shall submit, in writing, to the Department or appropriate approved local air pollution control agency, no later than 30 days prior to the anticipated date of start-up, information requested by the Department or appropriate approved local air pollution control agency to assure proper operation of the furnace. The information must include the following:

**SECTION E. Source Group Restrictions.**

(1) A detailed list of activities to be performed during start-up and an explanation for the length of time needed to complete each activity.

(2) A description of the material process flow rates and system operating parameters and other information that the owner or operator plans to evaluate during the process optimization.

(b) - (e) [Do not apply]

(f) During the start-up period, the owner or operator of a glass melting furnace shall maintain the stoichiometric ratio of the primary furnace combustion system so as not to exceed 5% excess oxygen, as calculated from the actual fuel and oxidant flow measurements for combustion in the glass melting furnace.

(g) The owner or operator shall place the emission control system in operation as soon as technologically feasible during start-up to minimize emissions.

005 [25 Pa. Code §129.306.]**Shutdown requirements.**

(a) The duration of a glass melting furnace shutdown, as measured from the time the furnace operations drop below 25% of the permitted production capacity or fuel use capacity to when all emissions from the furnace cease, may not exceed 20 days.

(b) The owner or operator of a glass melting furnace shall operate the emission control system whenever technologically feasible, as approved by the Department or appropriate approved local air pollution control agency, during shutdown to minimize emissions.

006 [25 Pa. Code §129.307.]**Idling requirements.**

(a) The owner or operator of a glass melting furnace shall operate the emission control system whenever technologically feasible, as approved by the Department or appropriate approved local air pollution control agency, during idling to minimize emissions.

(b) The NO_x emissions during idling may not exceed the amount calculated using the following equation:

Pounds per day emission limit of NO_x = (Applicable NO_x emission limit specified in § 129.304(a) (relating to emission requirements) expressed in pounds per ton of glass produced) x (Furnace permitted production capacity in tons of glass produced per day).

007 [25 Pa. Code §129.309.]**Compliance demonstration.**

(a) The owner or operator of a glass melting furnace shall calculate and report to the Department or appropriate approved local air pollution control agency on a quarterly basis, no later than 30 days after the end of the quarter, the CEMS data and glass production data used to show compliance with the allowable NO_x emission limitation specified in § 129.304 (relating to emission requirements). The glass production data must consist of the quantity of glass, in tons, pulled per day for each furnace.

(b) The owner or operator of a glass melting furnace shall demonstrate compliance with the emission requirements of § 129.304(a) using one of the following methods:

(1) On a furnace-by-furnace basis.

(2) Facility-wide emissions averaging.

(3) System-wide emissions averaging among glass melting furnaces under common control of the same owner or operator in this Commonwealth.

(c) [Does not apply]

(d) Compliance with the emission requirements of § 129.304(a) shall be determined on a 30-day rolling average basis.

**SECTION E. Source Group Restrictions.****VII. ADDITIONAL REQUIREMENTS.****# 008 [25 Pa. Code §129.301.]****Purpose.**

The purpose of this section and § § 129.302—129.310 is to annually limit the emissions of NOx from glass melting furnaces.

009 [25 Pa. Code §129.302.]**Applicability.**

This section, § 129.301 (relating to purpose) and § § 129.303—129.310 apply to an owner or operator of a glass melting furnace in this Commonwealth, including those within the jurisdiction of local air pollution control agencies in Philadelphia and Allegheny Counties approved under section 12 of the act (35 P. S. § 4012), that emits or has the potential to emit NOx at a rate greater than 50 tons per year.

010 [25 Pa. Code §129.303.]**Exemptions.**

(a) The emission requirements in § 129.304 (relating to emission requirements) do not apply during periods of start-up, shutdown, or idling as defined in § 121.1 (relating to definitions), if the owner or operator complies with the requirements in § § 129.305, 129.306 and 129.307 (relating to start-up requirements; shutdown requirements; and idling requirements).

(b) The owner or operator of a glass melting furnace claiming an exemption under subsection (a) shall notify the Department or the appropriate approved local air pollution control agency in writing within 24 hours after initiation of the operation for which the exemption is claimed. The methods for submitting the written notice may include e-mail, hand or courier delivery, certified mail or facsimile transmissions to the appropriate regional office described in § 121.4 (relating to regional organization of the Department) or appropriate approved local air pollution control agency. The notification must include:

- (1) The date and time of the start of the exempt operation.
- (2) The reason for performing the operation and an estimated completion date.
- (3) Identification of the emission control system operating during the exemption period.

(c) The owner or operator of a glass melting furnace granted an exemption under this section shall maintain operating records or documentation, or both, necessary to support the claim for the exemption. The records shall be maintained for 5 years onsite and made available or submitted to the Department or appropriate approved local air pollution control agency, upon request.

(d) The owner or operator of a glass melting furnace shall notify the Department or the appropriate approved local air pollution control agencies in writing within 24 hours after completion of the operation for which the exemption is claimed.

*** **Permit Shield in Effect.** ***

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Title V facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
030	BOILERS		
Emission Limit			
4.000	Lbs/MMBTU	of heat input	SOX
101	FURNACE 1		
Emission Limit			
55.200	Lbs/Hr		CO
242.000	Tons/Yr	based on a 12-month rolling total	CO
3.800	Lbs/Tons	of glass melted, 30 day rolling average	NOX
141.000	Tons/Yr	12 month rolling sum	NOX
793.000	Lbs/Day	day limit, during abnormally low production	NOX
2,379.000	Lbs/Day	during malfunction days	NOX
2.400	Lbs/Tons	Normal Operations (Colored)	SOX
2.400	Lbs/Tons	Normal Operations (Flint)	SOX
93.000	Tons/Yr	12 month rolling sum	SOX
500.000	PPMV	Dry basis, by volume	SOX
501.000	Lbs/Day	Abnormally Low Production Day (Colored)	SOX
501.000	Lbs/Day	Abnormally Low Production Day (Flint)	SOX
1,042.000	Lbs/Day	during color transition days.	SOX
1,563.000	Lbs/Day	during malfunction days	SOX
1.000	Lbs/Tons	of glass melted.	Sulfuric Acid
0.020	gr/DRY FT3		TSP
0.500	GRAMS/kg	glass produced (filterable PM)	TSP
1.000	Lbs/Tons	of glass melted, Total PM	TSP
37.000	Tons/Yr	Total Particulate, 12 month rolling sum	TSP
3.400	Lbs/Hr		VOC
14.800	Tons/Yr	based on a 12-month rolling total	VOC
103	FURNACE 3		
Emission Limit			
0.200	Lbs/Tons		CO
10.250	Tons/Yr	based on a 12-month rolling total	CO
3.800	Lbs/Tons	of glass produced on a 30-day Rolling Average, as measured using a NOx CEMS	NOX
194.730	Tons/Yr	based on a 12-month rolling total	NOX
1,075.000	Lbs/Day	During Abnormally Low Production Rate Days on a 24-hour Block Average	NOX
3,225.000	Lbs/Day	During Malfunction	NOX
51.250	Tons/Yr	based on a 12-month rolling total	PM10
51.250	Tons/Yr	based on a 12-month rolling total	PM2.5
2.500	Lbs/Tons	of glass produced on a 30-day Rolling Average as measured using an SO2 CEMS (interim limit)	SOX
128.140	Tons/Yr	based on a 12-month rolling total	SOX
500.000	PPMV	Dry basis, by volume	SOX
707.000	Lbs/Day	During Abnormally Low Production Rate Days on a 24-hour Block Average (interim	SOX

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
		limit)	
1,414.000	Lbs/Day	During Color Transition on a 24-hour Block Average (interim limit)	SOX
2,121.000	Lbs/Day	During Malfunction on a 24-hour Block Average (interim limit)	SOX
1.000	Lbs/Tons	of glass produced	Sulfuric Acid
0.020	gr/DRY FT3		TSP
0.500	GRAMS/kg	glass produced (filterable PM)	TSP
1.000	Lbs/Tons	Total PM (both filterable & condensable) per ton of glass produced	TSP
51.250	Tons/Yr	based on a 12-month rolling total (both filterable and condensable)	TSP
0.200	Lbs/Tons		VOC
10.250	Tons/Yr	based on a 12-month rolling total	VOC
104	BATCH HOUSE FEED		
Emission Limit		Pollutant	
0.020	gr/DRY FT3		TSP
105A	FORMING / FINISHING LINES FURNACE 1		
Emission Limit		Pollutant	
500.000	PPMV	Dry basis	SOX
0.040	gr/DRY FT3		TSP
105B	FORMING/FINISHING LINES FURNACE 3		
Emission Limit		Pollutant	
500.000	PPMV	dry basis	SOX
0.040	gr/DRY FT3		TSP
108	MISCELLANEOUS NATURAL GAS USAGE		
Emission Limit		Pollutant	
0.040	gr/DRY FT3		TSP
110	EMERGENCY GENERATOR		
Emission Limit		Pollutant	
6.600	Tons/Yr		NOX
100.000	Lbs/Hr		NOX
1,000.000	Lbs/Day		NOX
500.000	PPMV	dry basis	SOX
0.040	gr/DRY FT3		TSP

Site Emission Restriction Summary

Emission Limit	Pollutant
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SECTION G. Emission Restriction Summary.

**SECTION H. Miscellaneous.**

(a) There are no applicable emission, testing, monitoring, recordkeeping, or reporting requirements for the following sources:

- 1) Blasting cabinets with settling chamber (drop box)
- 2) Machine shop steam cleaning pit
- 3) Mold shop metal-working tools with baghouse
- 4) Maintenance paint building
- 5) Maintenance lift truck and shops
- 6) Carbon bag dump
- 7) Rail / truck dump pit and elevator
- 8) 12 new dust collectors that exhaust inside the facility to control unloading, storing, mixing, weighing and delivery of raw materials at the glass container manufacturing facility as stated in RFD #630, approved on 11/04/2008
- 9) Four cooling towers with a recirculating rate of 120,000 gallons per hour
- 10) 1,000-gallon waste oil tank in the Maintenance Area
- 11) 1,000-gallon VNG steam cleaner in the Maintenance Area
- 12) Seven cold-end coating lines
- 13) Seven video jets (historically have been included in the emissions inventory but not as insignificant sources in the permit)
- 14) Hot melt/cold melt for gluing operations (historically have been included in the emissions inventory but not as insignificant sources in the permit)
- 15) One cardboard baler in the Box Shop
- 16) One cardboard baler in Reselect

Tanks:

1. AST (Tank 1) Lubricating oil, 6,000 gallons, South of #1 Furnace, Steel
2. AST (Tank 2) Kerosene, 300 gallons, SW of Recirc. Building, Steel
3. AST (Tank 4) Diesel fuel, 300 gallons, SW of Recirc. Building, Steel
4. AST (Tank 5) Diesel fuel, 900 gallons, Under Lean-to S of Parking Lots #2, 3, Steel
5. AST (Tank 6) Waste oil, 500 gallons, In Recirculation Building, Steel
6. AST (Tank 8) Steam cleaning fluid, 1,000 gallons, Tank 3 Basement, Steel
7. AST (Tank 9) Lubricating oil, 300 gallons, Maintenance Shop, Steel
8. AST (Tank 10), Hydraulic fluid, 300 gallons, Maintenance Shop, Steel
9. AST (Tank 12), Diesel fuel, 300 gallons, Below #2 Furnace, Steel, double-walled
10. AST (Tank 13), Waste oil, 1,000 gallons, Waste hanger, Steel
11. AST (Tank 14), Waste oil, 500 gallons, Garage, Steel
12. AST (Tank 15), Diesel, 300 gallons, Receiving Building, Steel

(b) The Capacity/Hour numbers listed on Page 4 and provided in Section D of this permit for individual sources are for informational purposes only and are not to be considered enforceable limits. Enforceable emission limits are listed in the Restriction section for each source. They are also summarized for informational purposes only in Section F.

(c) Source ID #108: Miscellaneous natural gas usage is comprised of the following space heaters, water heaters, and process heaters fueled by natural gas:

1. 32 shop casepacker, Reznor #F400, 400,000 Btu/hr
2. 33 IS Machine, Beacon/Morris TF/BTU/175, 175,000 Btu/hr
3. Box Shop, Reznor #F250, 250,000 Btu/Hr
4. Casepacker, Reznor #V3 Tcore2, 250,000 Btu/Hr
5. 33 shop casepacker, Modine #PD 125AE0130, 125,000 Btu/Hr
6. Box Shop, Modine #PD250AE0130, 250,000 Btu/Hr
7. Box Shop, Hastings AFX-224 HM2E, 400,000 Btu/Hr
8. Box Shop, Reznor, 250,000 Btu/Hr
9. Shop 11 Palletizer, Hastings, AFX-224 HM2E, 400,000 Btu/Hr
10. Maint, Reznor #XA175, 175,000 Btu/Hr
11. Maint, Reznor #XA175 175,000 Btu/Hr
12. Maint, Reznor # XA175, 175,000 Btu/Hr
13. 31 IS Machine, Modine #PD 400AE0130, 400,000 Btu/Hr
14. Line Shack Janitrol, #1560, 156,000 Btu/Hr
15. Line Shack, Reznor #XA175, 175,000 Btu/Hr
16. Line Shack Reznor, #XA175, 175,000 Btu/Hr

**SECTION H. Miscellaneous.**

17. Line Shack Bryant, #125 337, 125,000 Btu/Hr
18. Line Shack Perfection-Schwank #JK75, 71,500 Btu/Hr
19. Line Shack Modine, PD 125AE0130, 125,000 Btu/Hr
20. Line Shack - Storage Area, Reznor #F200, 200,000 Btu/Hr
21. Line Shack - Storage Area, Reznor #F200, 200,000 Btu/Hr
22. Garage, Reznor #SA175, 175,000 Btu/Hr
23. Garage, Reznor, 200,000 Btu/Hr
24. K-Bldg - SE Corner, Reznor #XL 200-3, 200,000 Btu/Hr
25. K-Bldg - NE Corner, Dayton #33720, 175,000 Btu/Hr
26. K-Bldg - by pipe storage, Janitrol, 125,000 Btu/Hr
27. K-Bldg - SW Corner, Reznor #F250, 250,000 Btu/Hr
28. K-Bldg - NW Corner, Reznor #XL125, 125,000 Btu/Hr
29. 13 shop IS Machine (outside of mold shop), Modine #PD 250AE0130, 250,000 Btu/Hr
30. Mold Shop, Reznor #SA175, 175,000 Btu/Hr
31. Mold Shop, PowRmatic, 625,000 Btu/Hr
32. Reselect, Modine #PD 125AE0130, 125,000 Btu/Hr
33. Over #2 Strapper - Repack Modine #PD 400AE0130, 400,000 Btu/Hr
34. Tank 1 casepackers, King KIP 8-300 DFG, 903,000 Btu/Hr
35. Plant 3 Palletizers, Re-verber-ray, 150,000 Btu/Hr
36. Plant 3 Palletizers, Re-verber-ray, 150,000 Btu/Hr
37. Plant 3 Palletizers, Re-verber-ray, 150,000 Btu/Hr
38. Reselect, King, 250,000 Btu/Hr
39. Plant 1 Palletizing, Reznor, Infrarez, 50,000 Btu/Hr
40. Plant 1 Palletizing, Reznor, Infrarez, 150,000 Btu/Hr
41. Plant 1 Palletizing, Reznor, Infrarez, 150,000 Btu/Hr
42. Scale Room - Batch Tower Warm Morning #V-50C-MAB, 50,000 Btu/Hr
43. Plant 1 - Under Tank 1 Back end, Sure Flame #S405, 400,000 Btu/Hr
44. Plant 1 - Under Tank 1 Back end, Sure Flame, #S405, 400,000 Btu/Hr
45. Plant 1 - FH Gas Train Scheu #SPC-150FASNG, 150,000 Btu/Hr
46. Shop 11 IS, Machine, Reznor #F300, 300,000 Btu/Hr
47. Fire Extinguisher Storage, Reznor #XL 225-3, 225,000 Btu/Hr
48. Receiving Storage Garage, Reznor# XL 125-3,125,000 Btu/Hr
49. Receiving Storage Garage, Reznor #XL 125-3,125,000 Btu/Hr
50. K-Bldg, Dayton #3VE56, 150,000 Btu/Hr
51. Carton Conveyors Plant 1 (overhead), Reznor #N-150, 150,000 Btu/Hr
52. Water Recirc Bldg, Reznor #RIHN50 50,000 Btu/Hr
53. Mold Storage - Section J, Modine #PD 125AE0130, 125,000 Btu/Hr
54. Mold Storage - Section D, Reznor #RIHN30, 30,000 Btu/Hr
55. Mold Storage - Section D, Reznor, #RIHN30, 30,000 Btu/Hr
56. Mold Storage - Section C, Modine #PD 250AE0130, 250,000 Btu/Hr
57. Mold Cleaning, Reznor #XA175, 175,000 Btu/Hr
58. Mold Cleaning, Reznor #XL 170-3, 170,000 Btu/Hr
59. Sump Room, Perfection #JK50, 50,000 Btu/Hr
60. Power House Water Heater, Servistar #GUF90-3335, 30,000 Btu/Hr
61. Water Heater - Main Office Bldg Reliance #640XORS, 35,500 Btu/Hr
62. Mold Ovens (5), 500,000 Btu/Hr each
63. Nine (9) 400,000 and one (1) 150,000 Btu/Hr portable space heaters

TOTAL HEAT INPUT = 16.7 MMBtu/Hr

d) Source ID #030: Boilers is comprised of following sources:

- 1) Central Shower Room, Weil Mclein Company Model # PFG-3 , heat input 325,000Btu/hr.
- 2) Power house Boiler #2, Weil-McLain Company, Model # PFG-6, heat input 325,000 Btu/Hr.
- 3) Boiler- Mold Shop, Hydro Therm, Model # HC-125E-Y, Heat input 125,000 Btu/Hr.

e) The heat capacity of one cubic foot natural gas is 1020 BTU. This basis has been used to calculate the heat input of Source ID #030: Boiler and Source ID #108: Miscellaneous natural gas usage.

**SECTION H. Miscellaneous.**

- f) Source ID #109: Degreaser Units is comprised of the following parts washers that use mineral spirits as a solvent:
- 1) Machine Repair – 80 Gal unit owned by Safety Kleen
 - 2) K Building - 80 Gal unit owned by AGI
 - 3) Garage - 30 Gal unit owned by Safety Kleen
- g) Source ID # 110: Emergency Generator: The throughput of diesel generator is 60 gallons per hour idle, 69.3 gallons per hour fully loaded.
- h) This permit was reissued on February 24, 2009.
- i) This permit was administratively amended on August 31, 2010 to incorporate the requirements from plan approval 42-028C.
- j) This permit was administratively amended on December 3, 2010 to indicate the change in the plant manager at the facility. The manufacturing Vice-President (Tristan Thommasson) delegated responsible official authority to Mr. Beltran.
- k) This permit was administratively amended on March 9, 2012 to indicate the Responsible official was delegated to the Plant Manger by Tristan Thommasson - Mfg V.P. and to also indicate that the permit contact - Dan Decker had left the facility and the position of permit contact is deferred to Kim Emley - Operations Manager.
- l) The facility installed blender attached to each forehearth feeding the tandem forming machine lines in Shop #33 and, #34 as stated in RFD # 4117, approved on 12/13/2013. There were no emission increases as a result of this source.
- m) The permit was renewed on April 1, 2014.
- n) Source 105A (Forming/Finishing Lines - Furnace 1) consists of the following:
1. Lehr 11, Bowman, installed 1997, 3.0 mmBtu/hr
 2. Lehr 12, JJDay, installed 2016, 3.1 mmBtu/hr
 3. Lehr 13, HF Teichmann, installed 2017, 4.0 mmBtu/hr
 4. Distributor 1, 1.8 mmBtu/hr
 5. Forehearth 11, 1.6 mmBtu/hr
 6. Forehearth 12, Sorg Design, 2.0 mmBtu/hr
 7. Forehearth 13, 1.6 mmBtu/hr
- Source 105B (Forming/Finishing Lines - Furnace 3) consists of the following:
1. Lehr 31/32, Bowman, installed 2006, 5.0 mmBtu/hr
 2. Lehr 33/34, Bowman, installed 2004, 4.0 mmBtu/hr
 3. Distributor 3, 9.0 mmBtu/hr
 4. Forehearth 31/32, 4.0 mmBtu/hr
 5. Forehearth 33/34, 2.8 mmBtu/hr
- o) References in this permit to the Global Consent Decree are an abbreviated reference to the Global Consent Decree effective May 7, 2010 between US EPA, Pa DEP, and SGCI (now known as AGI).
- p) This permit was administratively amended on May 19, 2014 to incorporate the requirements of plan approval 42-028E and change the name from St Gobain Containers Inc (SGCI) to Ardagh Glass Inc (AGI).
- q) This permit was administratively amended on February 19, 2016 to incorporate the requirements of plan approvals 42-028F and 42-028G.
- r) This permit was renewed on November 27, 2019.
- s) This permit was amended on April 11, 2022 and again on May 22, 2023 to update the responsible official and permit contact.



***** End of Report *****
