



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: June 25, 2026

Effective Date: June 25, 2026

Expiration Date: December 25, 2026

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 construct, install, modify or reactivate the air emission source(s) more fully described in the site inventory list. This Facility is subject to all terms and conditions specified in this plan approval. Nothing in this plan approval 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 plan approval condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated as "State-Only" requirements.

Plan Approval No. 04-00084D

Federal Tax Id - Plant Code: 27-1766515-01

Owner Information

Name: STOELZLE GLASS USA INC
Mailing Address: 400 9TH ST
MONACA, PA 15061-1862

Plant Information

Plant: STOELZLE GLASS USA INC/MONACA PLT
Location: 04 Beaver County 04812 Monaca Borough
SIC Code: 3229 Manufacturing - Pressed And Blown Glass, Nec

Responsible Official

Name: M. CHRISTOPHER WILD
Title: SENIOR ENGINEERING MANAGE
Phone: (724) 773 - 3240 Email: chris.wild@stoelzle.com

Plan Approval Contact Person

Name: M. CHRISTOPHER WILD
Title: SENIOR ENGINEERING MANAGE
Phone: (724) 773 - 3240 Email: chris.wild@stoelzle.com

[Signature] _____

MARK R. GOROG, P.E., ENVIRONMENTAL PROGRAM MANAGER, SOUTHWEST REGION



Plan Approval Description

The purpose of this plan approval application is to replace the furnace and associated equipment for a glass throughput increase from 300 tpd to 400 tpd at their pressed and blown glass and glassware manufacturing facility.

The facility is currently authorized to operate under State Only Operating Permit SOOP-04-00084 that was renewed on July 24, 2025.



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Note: These same sub-sections are repeated for each source!

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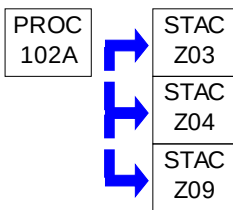
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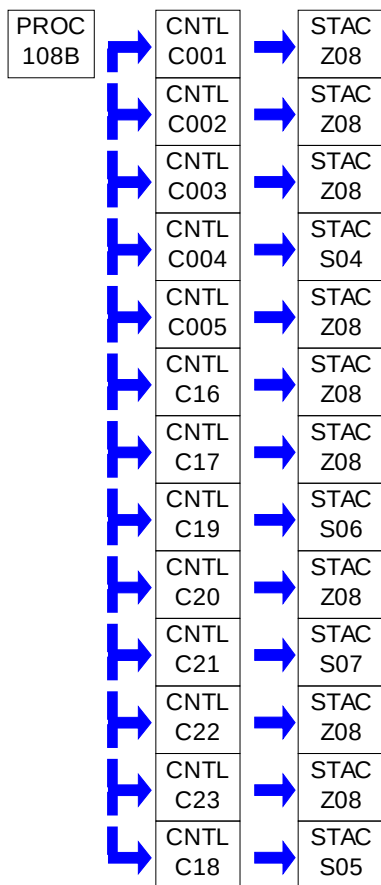
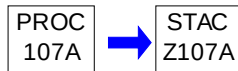
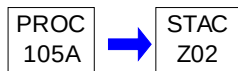
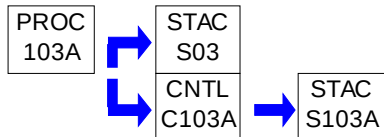
**SECTION A. Plan Approval Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
102A	COOLING TOWERS (3)		
103A	NEW MELT TANK/FURNACE		
105A	FIVE (5) ANNEALING LEHRS 2.38 MMBTU/HR		
107A	GLASS FORMING LUBRICANTS		
108B	BATCH PLANT		
C001	UNLOADING PIT BIN VENT		
C002	TRANSFER TOWER BIN VENT		
C003	BELT CONVEYOR BIN VENT		
C004	UNLOADING CHUTE DUST COLLECTOR		
C005	MIXED BATCH ELEVATOR DUST COLLECTOR		
C006	ROTARY DIST. RM DUST COLLECTOR 2		
C103A	EDS/CADF UPGRADED		
C16	RAW MATERIAL ELEVATOR DUST COLLECTOR		
C17	MIXER FLOOR/SCALE AREA BAGHOUSE		
C18	TUBE/CONVEYOR LOAD PNT.BIN VENT		
C19	MIXED BATCH STORAGE BIN BAGHOUSE		
C20	BATCH WETTING SCREW BIN VENT		
C21	CULLET STORAGE BAGHOUSE		
C22	CULLET BELT CONVEYOR BIN VENT		
C23	RECEIVING HOPPER/CULLET ELEV. BAGHOUSE		
S03	MELTER TANK STACK		
S04	SILO (DC) STACK		
S05	TUBE CONVEYOR STACK		
S06	MIXED BATCH STORAGE BIN		
S07	CULLET STORAGE BIN (DC)		
S103A	MELT TANK CADF STACK		
Z02	ANNEALING LEHRS, GLAZERS, AND MISC HEAT FUGITIVES		
Z03	COOLING TOWER 1		
Z04	COOLING TOWER 2		
Z08	FUGITIVE		
Z09	AIR COMP COOLING TOWER		
Z107A	GLASS FORMING FUGITIVES		

PERMIT MAPS



PERMIT MAPS



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

Words and terms that are not otherwise defined in this plan approval 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 § 127.12b (a) (b)]**Future Adoption of Requirements**

The issuance of this plan approval does not prevent the future adoption by the Department of any rules, regulations or standards, or the issuance of orders necessary to comply with the requirements of the Federal Clean Air Act or the Pennsylvania Air Pollution Control Act, or to achieve or maintain ambient air quality standards. The issuance of this plan approval shall not be construed to limit the Department's enforcement authority.

#003 [25 Pa. Code § 127.12b]**Plan Approval Temporary Operation**

This plan approval authorizes temporary operation of the source(s) covered by this plan approval provided the following conditions are met.

(a) When construction, installation, modification, or reactivation is being conducted, the permittee shall provide written notice to the Department of the completion of the activity approved by this plan approval and the permittee's intent to commence operation at least five (5) working days prior to the completion of said activity. The notice shall state when the activity will be completed and when the permittee expects to commence operation. When the activity involves multiple sources on different time schedules, notice is required for the commencement of operation of each source.

(b) Pursuant to 25 Pa. Code § 127.12b (d), temporary operation of the source(s) is authorized to facilitate the shakedown of sources and air cleaning devices, to permit operations pending the issuance of a permit under 25 Pa. Code Chapter 127, Subchapter F (relating to operating permits) or Subchapter G (relating to Title V operating permits) or to permit the evaluation of the air contaminant aspects of the source.

(c) This plan approval authorizes a temporary operation period not to exceed 180 days from the date of commencement of operation, provided the Department receives notice from the permittee pursuant to paragraph (a), above.

(d) The permittee may request an extension of the 180-day shakedown period if further evaluation of the air contamination aspects of the source(s) is necessary. The request for an extension shall be submitted, in writing, to the Department at least 30 days prior to the end of the initial 180-day shakedown period and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established. This temporary operation period will be valid for a limited time and may be extended for additional limited periods, each not to exceed 180 days.

(e) The notice submitted by the permittee pursuant to subpart (a) above, prior to the expiration of the plan approval, shall modify the plan approval expiration date on Page 1 of this plan approval. The new plan approval expiration date shall be 180 days from the date of commencement of operation.

#004 [25 Pa. Code § 127.12(a) (10)]**Content of Applications**

The permittee shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice as described in the plan approval application submitted to the Department.

#005 [25 Pa. Code §§ 127.12(c) and (d) & 35 P.S. § 4013.2]**Public Records and Confidential Information**

(a) The records, reports or information obtained by the Department or referred to at public hearings shall be available to the public, except as provided in paragraph (b) of this condition.

(b) Upon cause shown by the permittee that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the act, if made public, would divulge production or sales figures or methods, processes or production unique to that person or would otherwise tend to affect adversely the

**SECTION B. General Plan Approval Requirements**

competitive position of that person by revealing trade secrets, including intellectual property rights, the Department will consider the record, report or information, or particular portion thereof confidential in the administration of the act. The Department will implement this section consistent with sections 112(d) and 114(c) of the Clean Air Act (42 U.S.C.A. § 7412(d) and 7414(c)). Nothing in this section prevents disclosure of the report, record or information to Federal, State or local representatives as necessary for purposes of administration of Federal, State or local air pollution control laws, or when relevant in a proceeding under the act.

#006 [25 Pa. Code § 127.12b]**Plan Approval Terms and Conditions**

[Additional authority for this condition is derived from 25 Pa. Code Section 127.13]

(a) This plan approval will be valid for a limited time, as specified by the expiration date contained on Page 1 of this plan approval. Except as provided in § § 127.11a and 127.215 (relating to reactivation of sources; and reactivation), at the end of the time, if the construction, modification, reactivation or installation has not been completed, a new plan approval application or an extension of the previous approval will be required.

(b) If construction has commenced, but cannot be completed before the expiration of this plan approval, an extension of the plan approval must be obtained to continue construction. To allow adequate time for departmental action, a request for the extension shall be postmarked at least thirty (30) days prior to the expiration date. The request for an extension shall include the following:

- (i) A justification for the extension,
- (ii) A schedule for the completion of the construction

If construction has not commenced before the expiration of this plan approval, then a new plan approval application must be submitted and approval obtained before construction can commence.

(c) If the construction, modification or installation is not commenced within 18 months of the issuance of this plan approval or if there is more than an 18-month lapse in construction, modification or installation, a new plan approval application that meets the requirements of 25 Pa. Code Chapter 127, Subchapter B (related to plan approval requirements), Subchapter D (related to prevention of significant deterioration of air quality), and Subchapter E (related to new source review) shall be submitted. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified.

#007 [25 Pa. Code § 127.32]**Transfer of Plan Approvals**

(a) This plan approval may not be transferred from one person to another except when a change of ownership is demonstrated to the satisfaction of the Department and the Department approves the transfer of the plan approval in writing.

(b) Section 127.12a (relating to compliance review) applies to a request for transfer of a plan approval. A compliance review form shall accompany the request.

(c) This plan approval is valid only for the specific source and the specific location of the source as described in the application.

#008 [25 Pa. Code § 127.12(a)(4) & 35 P.S. § 4008 & § 114 of the CAA]**Inspection and Entry**

(a) 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.

(b) The permittee shall also allow the Department to have access at reasonable times to said sources and associated air cleaning devices with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act and regulations adopted under the act.

**SECTION B. General Plan Approval Requirements**

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

#009 [25 Pa. Code 127.13a]**Plan Approval Changes for Cause**

This plan approval may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

(a) The permittee constructs or operates the source subject to the plan approval in violation of the act, the Clean Air Act, the regulations promulgated under the act or the Clean Air Act, a plan approval or permit or in a manner that causes air pollution.

(b) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.

(c) The permittee fails to submit a report required by this plan approval.

(d) The Environmental Protection Agency determines that this plan approval is not in compliance with the Clean Air Act or the regulations thereunder.

#010 [25 Pa. Code §§ 121.9 & 127.216]**Circumvention**

(a) The permittee, 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 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 plan approval, 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.

#011 [25 Pa. Code § 127.12c]**Submissions**

Reports, test data, monitoring data, notifications shall be submitted to the:

Regional Air Program Manager

PA Department of Environmental Protection

(At the address given on the plan approval transmittal letter or otherwise notified)

#012 [25 Pa. Code § 127.12(a)(9) & 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 facility. The permittee shall submit the RMP to the Environmental Protection Agency according to the following schedule and requirements:

(1) The permittee shall submit the first RMP to a central point specified by the Environmental Protection Agency no later than the latest of the following:

**SECTION B. General Plan Approval Requirements**

- (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 the Environmental Protection Agency 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 plan approval 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.

#013 [25 Pa. Code § 121.7]**Prohibition of Air Pollution**

No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. §§ 4001-4015).

#014 [25 Pa. Code § 127.25]**Compliance Requirement**

A person may not cause or permit the operation of a source subject to § 127.11 (relating to plan approval requirements), unless the source and air cleaning devices identified in the application for the plan approval and the plan approval issued to the source, are operated and maintained in accordance with specifications in the application and conditions in the plan approval issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.

**SECTION C. Site Level Plan Approval 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) Blasting in open pit mines. Emissions from drilling are not considered as emissions from blasting.
- (8) Coke oven batteries, provided the fugitive air contaminants emitted from any coke oven battery comply with the standards for visible fugitive emissions in § § 123.44 and 129.15 (relating to limitations of visible fugitive air contaminants from operation of any coke oven battery; and coke pushing operations).
- (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 (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) N/A

(d) N/A

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) (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**

The Owner or Operator 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 of the property of the Facility

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

The Owner or Operator 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:

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

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

The limitations of §123.41 (relating to limitations) shall not apply to a visible emission in any of the following instances:

- a. When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.

**SECTION C. Site Level Plan Approval Requirements**

- b. When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- c. When the emission results from sources specified in §123.1(1)-(9).
- d. N/A

006 [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 any devices approved by the Department.

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

Production of glass shall not exceed 400 tons of glass per day on a 30-day rolling average basis.

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

Facility-wide NO_x emissions shall not exceed 99.86 tons in any 12-month rolling period.

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

SO₂ sorbent shall be delivered to and stored at the Facility in bulk bags or other equivalent storage container methods.

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

The Owner or Operator shall submit requests to extend the temporary operation period at least 30 days prior to the expiration date of any authorized period of temporary operation until the sources, modifications to existing sources, and air cleaning devices covered by this authorization are incorporated into the SOOP for this facility.

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

If, at any time, the Department has cause to believe that air contaminant emissions from the sources listed in this Plan Approval may be in excess of the limitations specified in, or established pursuant to this plan approval or the permittee's operating permit, the permittee may be required to conduct test methods and procedures deemed necessary by the Department to determine the actual emissions rate. Such testing shall be conducted in accordance with 25 Pa. Code Chapter 139, where applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the company that testing is required.

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

The Owner or Operator shall perform a daily facility-wide inspection at a minimum of once per operating day for the presence of the following.:

- (a) Visible stack emissions;
- (b) Fugitive emissions; and
- (c) Potentially objectionable odors at the property line.

These observations are to ensure continued compliance with source-specific visible emission limitations, fugitive emissions prohibited under 25 Pa. Code §123.1 or §123.2, and malodors prohibited under 25 Pa. Code §123.31.

Observations for visible stack and fugitive emissions shall be conducted during daylight hours, and all observations shall

**SECTION C. Site Level Plan Approval Requirements**

be conducted while sources are in operation.

If any visible stack emissions, fugitive emissions, or potentially objectionable odors are apparent, the permittee shall take corrective action. If any visible emissions are apparent after the correction action, sources of emissions shall not start until the permittee can verify compliance with the opacity standards specified in the permit through methods prescribed in §123.43, such as EPA Method 9 readings taken by a certified visible emissions reader.

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

The Owner or Operator shall maintain the following comprehensive and accurate records:

- (1) Results of daily facility-wide inspections including the date, time, name, and title of the observer, along with any corrective action taken as a result.
- (2) Results of any visible emissions observations.
- (3) Copies of the manufacturers' specifications and recommended maintenance schedule (or site-specific developed maintenance schedule) for each air contamination source and air cleaning device.
- (4) All maintenance performed on each air contamination source and air cleaning device
- (5) A record of all VOC and HAP containing compounds utilized at the facility.
- (6) A record of operator training and certificates.
- (7) Facility-wide fuel usage broken down by source on a 12-month rolling basis.
- (8) 12-month rolling facility-wide actual NO_x emissions including a 30-day average for the melting tank/furnace.
- (9) Daily production rate, to ensure the 400 tpd on a 30-day average glass production limitation is not exceeded.

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

All logs and required records shall be maintained on site for a minimum of five years and shall be made available to the Department upon request

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

The Owner or Operator of each stationary source emitting criteria pollutants (including but not limited to NO_x, CO, VOC, SO_x, total PM₁₀, and PM_{2.5} (including condensable particulate matter)), GHG, and HAP 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 criteria pollutants 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 shall be included. The statement shall also contain a certification by a company officer or the plant manager that the information contained in the statement is accurate

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

The Owner or Operator shall submit a quarterly report, in writing or electronically, to the Southwest Regional Office Air Quality Program that demonstrates compliance with the NO_x emission limitation which shall not exceed 1.1 pounds of NO_x per ton of glass pulled on a rolling 30-day average, and with the glass production which shall not exceed 400 tons of glass per day on a 30-day rolling average basis.

017 [40 CFR Part 68 EPA Provisions for Chemical Accident Prevention §40 CFR 68.150]**Subpart G - Risk Management Plan Submission.**

A Risk Management Plan shall be submitted to both EPA and the Department prior to the storage on site of any regulated toxic substances in excess of the threshold quantities listed in Table 1 to 40 CFR § 68.130. If required, the Risk Management Plan shall include all of the requirements of 40 CFR Part 68, Subpart G.

**SECTION C. Site Level Plan Approval Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 018 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

(a) N/A

(b) N/A

(c) A person responsible for any source specified in subsections (a)(1)—(7) or (9) 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.

(d) N/A

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

Upon determination by the Owner or Operator that the source(s) covered by this Plan Approval are in compliance with all conditions of the Plan Approval the Owner or Operator shall contact the Department's reviewing engineer and schedule the Initial Operating Permit Inspection.

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this plan approval including Section B (relating to Plan Approval General Requirements).

IX. COMPLIANCE SCHEDULE.

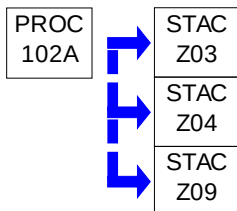
No compliance milestones exist.

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 102A

Source Name: COOLING TOWERS (3)

Source Capacity/Throughput:

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

the cooling towers shall be installed, operated, and maintained in accordance with good engineering practices.

VII. ADDITIONAL REQUIREMENTS.

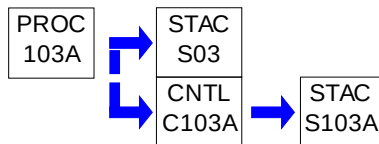
No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 103A

Source Name: NEW MELT TANK/FURNACE

Source Capacity/Throughput:

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

(a) Subsections (b) and (c) apply to all processes except combustion units, incinerators and pulp mill smelt dissolving tanks.

(b) No person may permit the emission into the outdoor atmosphere of particulate matter from a process listed in the following table, at any time, either in excess of the rate calculated by the formula in paragraph (2) or in a manner that the concentration of particulate matter in the effluent gas exceeds .02 grains per dry standard cubic foot, whichever is greater:

(1) Table.

Streamline for applicable source:

Pressed, blown, and spun glass; glass production melting furnaces 50 (Fill)

(2) 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 in paragraph (1). The units for F and W shall be compatible.

(3) Allowable emissions. Allowable emissions under this subsection are graphically indicated in Appendix B.

(c) N/A

(d) N/A

[Compliance with the 127.12b BAT particulate matter emissions rate determination ensures compliance with this regulation]

002 [25 Pa. Code §123.21]**General**

(a) This section applies to sources except those subject to other provisions of this article, with respect to the control of sulfur compound emissions.

(b) 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 §127.12b]**Plan approval terms and conditions.**

The Owner or Operator may not operate the glass melting tank/furnace in a manner that results in emissions in excess of the following limits except during periods of start-up, shutdown, or idling as defined in 25 Pa. Code §121.1 or control system bypass (limited to 120 hours in any 12-month rolling period). Compliance with the NO_x, PM, PM₁₀, PM_{2.5}, and SO₂ emission limitations shall be determined by the results of the most recent appropriate EPA reference method stack test:

a. 1.1 pounds of NO_x per ton of glass pulled on a rolling 30-day average.

b. 0.42 pounds of total PM₁₀ (filterable and condensable) per ton of glass pulled based on EPA reference method stack

**SECTION D. Source Level Plan Approval Requirements**

test.

c. 0.47 pounds of SO₂ per ton of glass pulled based on EPA reference method stack test.

[25 Pa. Code §129.301-310 NO_x control and the emissions rates from the glass melting tank have been superseded by this BAT determination under 25 Pa. Code 127.12b]

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

When Source 103A is controlled by the ECS/CADF control system, the particulate matter emissions shall not exceed:

- a. PM 0.035 gr/dscf,
- b. PM₁₀ 0.035 gr/dscf (filterable and condensable)
- c. PM_{2.5} 0.035 gr/dscf (filterable and condensable)
- d. PM 29.9 tpy
- e. PM₁₀ 29.9 tpy (filterable and condensable)
- f. PM_{2.5} 29.8 tpy (filterable and condensable)

005 [25 Pa. Code §129.301.]**Purpose.**

The purpose of this section and § § 129.302—129.310 is to annually limit the emissions of NO_x from glass melting furnaces.

006 [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 NO_x at a rate greater than 50 tons per year.

007 [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) N/A
- (c) N/A
- (d) N/A

008 [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 NO_x emissions in excess of the following allowable limits or NO_x emission limits contained in the plan approval or operating permit, whichever are lower:

- (1) N/A
- (2) 7.0 pounds of NO_x per ton of glass pulled for pressed or blown glass furnaces.
- (3)-(5) N/A

(b) The owner or operator of a glass melting furnace shall comply with subsection (a) by January 1, 2012, unless a petition for an alternative emission limitation or compliance schedule is submitted, in writing, to the Department and appropriate approved local air pollution control agency by January 1, 2012, in accordance with subsection (c) and approved, in writing, by the Department or appropriate approved local air pollution control agency.

(c) N/A

**SECTION D. Source Level Plan Approval Requirements**

(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.

009 [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)

010 [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.

011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.292]**Subpart CC - Standards of Performance for Glass Manufacturing Plants****Standards for particulate matter.**

(a) 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 subject to the provisions of this subpart shall cause to be discharged into the atmosphere—

(1) From any glass melting furnace fired exclusively with either a gaseous fuel or a liquid fuel, particulate matter at emission rates exceeding those specified in table CC-1, Column 2 and Column 3, respectively, or

Table CC-1 - Emission Rates	[g of particulate/kg of glass produced]
Pressed and blown glass (b) Soda-Lime and Lead Recipes	0.1 (0.2 lb/ton)

(2) From any glass melting furnace, fired simultaneously with gaseous and liquid fuels, particulate matter at emission rates exceeding STD as specified by the following equation:

$$\text{STD} = X [1.3(Y) + (Z)]$$

Where:

STD = Particulate matter emission limit, g of particulate/kg (lb of particulate/ton) of glass produced.

X = Emission rate specified in table CC-1 for furnaces fired with gaseous fuel (Column 2).

Y = Decimal fraction of liquid fuel heating value to total (gaseous and liquid) fuel heating value fired in the glass melting furnaces as determined in § 60.296(b). (joules/joules).

Z = (1-Y).

(b)-(d) N/A

**SECTION D. Source Level Plan Approval Requirements**

(e) During routine maintenance of add-on pollution controls, an owner or operator of a glass melting furnace subject to the provisions of paragraph (a) of this section is exempt from the provisions of paragraph (a) of this section if:

- (1) Routine maintenance in each calendar year does not exceed 6 days;
- (2) Routine maintenance is conducted in a manner consistent with good air pollution control practices for minimizing emissions; and
- (3) A report is submitted to the Administrator 10 days before the start of the routine maintenance (if 10 days cannot be provided, the report must be submitted as soon as practicable) and the report contains an explanation of the schedule of the maintenance.

II. TESTING REQUIREMENTS.**# 012 [25 Pa. Code §139.11]****General requirements.**

Performance testing shall be conducted as follows [25 Pa. Code §127.12b and §139.11]:

- a. Stack testing for ammonia, PM, PM₁₀, PM_{2.5}, and SO₂ by EPA Method testing. Other test methods may be used if approved by the Department in writing prior to testing. Testing is required within 180 days from startup after the issuance of this plan approval. Subsequent ammonia, PM, PM₁₀, PM_{2.5}, and SO₂ testing shall be performed at a minimum of once every five (5) years thereafter. Department-approved CEMS may be used in lieu of stack tests for any particular air contaminant.
- b. The Owner or Operator shall submit three copies of a pre-test protocol to the Department for review at least 120 days prior to the performance of any EPA reference method stack test (except as noted in condition i. below). All proposed performance test methods shall be identified in the pre-test protocol and approved by the Department prior to testing.
- c. The Owner or Operator shall notify the Regional Air Quality Manager at least 15 days prior to any performance test so that an observer may be present at the time of the test. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.
- d. All relevant operating parameters shall be recorded during the duration of the stack tests. Operating data recorded shall be sufficient to establish that the source and the air cleaning device are operating at maximum routine operating conditions. A discussion of the recorded operating parameters and values shall be included in the test report.
- e. Pursuant to 25 Pa. Code Section 139.53(b) a complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or non-compliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:
 1. A statement that the Owner or Operator has reviewed the report from the emissions testing body and agrees with the findings.
 2. Permit number(s) and condition(s) which are the basis for the evaluation.
 3. Summary of results with respect to each applicable permit condition.
 4. Statement of compliance or non-compliance with each applicable permit condition.
- f. Pursuant to 25 Pa. Code § 139.3 all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- g. All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.
- h. Pursuant to 25 Pa. Code Section 139.53(a)(1) and 139.53(a)(3) all submittals, besides notifications, shall be accomplished through PSIMS*Online available through <https://www.depgreenport.state.pa.us/ecomm/Login.jsp> when it becomes available. If internet submittal can not be accomplished, three copies of the submittal shall be sent to the Pennsylvania Department of Environmental Protection, Bureau of Air Quality, Division of Source Testing and Monitoring, 400 Market Street, 12th Floor Rachael Carson State Office Building, Harrisburg, PA 17105-8468 with deadlines verified through

**SECTION D. Source Level Plan Approval Requirements**

document postmarks.

i. The permittee shall ensure all federal reporting requirements are followed, including timelines more stringent than those contained herein. In the event of an inconsistency or any conflicting requirements between state and the federal, the most stringent provision, term, condition, method or rule shall be used by default.

013 [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.**

40 CFR Part 60 Subpart CC § 60.296 Test methods and procedures.

(a) N/A

(b) N/A

(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:

(e) (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 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 $177 \pm 14^\circ \text{C}$ ($350 \pm 25^\circ \text{F}$), 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.

III. MONITORING REQUIREMENTS.**# 014 [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 NO_x 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 NO_x emissions monitoring system or method, approved in writing by the Department or appropriate approved local air pollution control agency.

(b)-(d) N/A

(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.

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

The Owner or Operator shall maintain the following comprehensive and accurate records:

- a. The manufacturer's recommended maintenance schedule for, and all maintenance activities performed on, the CADF system.
- b. Date, duration, and glass production rate during bypass of the CADF system.
- c. Date, duration, and glass production rate when the injection of ammonia and/or sorbent ceases.
- d. Date and duration of idled operation.
- e. Record emissions on a consecutive 12-month rolling basis.

016 [25 Pa. Code §129.303.]**Exemptions.**

- (a) N/A
- (b) N/A
- (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) N/A

017 [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.**# 018 [25 Pa. Code §129.303.]****Exemptions.**

- (a) N/A
- (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:

**SECTION D. Source Level Plan Approval Requirements**

- (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) N/A

(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.

019 [25 Pa. Code §129.304.]

Emission requirements.

(a) N/A

(b) N/A

(c) An owner or operator of a glass melting furnace that does not meet the NO_x emission limits specified under this section by January 1, 2012, may petition the Department and appropriate approved local air pollution control agency for an alternative emission limitation or compliance schedule as follows:

(1) The owner or operator of a glass melting furnace subject to this section may submit, in writing, a petition requesting an alternative emission limitation. The petition must demonstrate to the satisfaction of the Department and appropriate approved local air pollution control agency that it is economically or technologically infeasible to meet the emission limitation under this section. The alternative emission limitation must be included in either a plan approval or an operating permit issued by the Department or a permit issued by the appropriate approved local air pollution control agency.

(2) The owner or operator of a glass melting furnace for which the schedule for cold shutdown does not allow compliance by January 1, 2012 may submit a petition, in writing, requesting an alternative compliance schedule. The alternative compliance schedule for a cold shutdown which occurs after June 19, 2010, may not be extended beyond 180 days from the start-up of the furnace after the cold shutdown, unless approved, in writing, by the Department.

(3) A petition must include the following:

- (i) A brief description, including make, model and location, of each affected glass melting furnace.
- (ii) A list of all air pollution control technologies and measures that have been installed on each affected glass melting furnace and are operating to control emissions of NO_x.
- (iii) The date of installation and original commencement of operation for each of the technologies and measures listed in accordance with subparagraph (ii).
- (iv) An explanation of how the NO_x control technology or measure installed has been optimized for the maximum NO_x emission reduction for each of the technologies and measures listed in accordance with subparagraph (ii).
- (v) The results of each stack test and other emissions measurements for the affected glass melting furnace following the installation and commencement of operation of the air pollution control technologies and measures listed in accordance with subparagraph (ii).
- (vi) The date of last scheduled cold shutdown for each affected furnace.
- (vii) The date of next scheduled cold shutdown of each affected furnace.
- (viii) Other relevant information requested, in writing, by the Department or appropriate approved local air pollution control agency.

(4) If an alternative compliance schedule is sought to meet the requirements of this section, the owner or operator shall submit a proposed schedule containing proposed interim milestone dates for completing each phase of the required work and a proposed final compliance date. The petition must also include a proposed interim emission limitation until compliance is achieved with the requirements specified in this section.

(5) If an alternative emission limitation is sought to meet the requirements of this section, the conditions or special circumstances which demonstrate that the applicable requirements are technologically or economically infeasible.

(6) If an alternative emission limitation is sought to meet the requirements of this section, the owner or operator shall propose emission limitations in the petition.

(7) Approved interim milestone dates or emission limitations determined to be necessary for effective monitoring of progress toward full compliance with the requirements of this section, § § 129.301—129.303 and 129.305—129.310 shall be specified in a plan approval or operating permit issued by the Department or a permit issued by the appropriate approved local air pollution control agency.

(d) N/A

**SECTION D. Source Level Plan Approval Requirements****# 020 [25 Pa. Code §129.308.]****Compliance determination.**

(a) N/A

(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:

(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 NOx emissions and glass production.

(d) N/A

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VII. ADDITIONAL REQUIREMENTS.**# 021 [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:

(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) The owner or operator of a glass melting furnace may submit a request for a start-up exemption in conjunction with the plan approval application if required. The actual length of the start-up exemption, if any, will be determined by the Department or appropriate approved local air pollution control agency at the time of the issuance of the plan approval or operating permit.

(c) The length of the start-up exemption following activation of the primary furnace combustion system may not exceed:

(1) Seventy days for a container, pressed or blown glass furnace.

(2) Forty days for a fiberglass furnace.

(3) One hundred and four days for a flat glass furnace and for all other glass melting furnaces not covered under

**SECTION D. Source Level Plan Approval Requirements**

paragraphs (1) and (2).

(d) The requirements of subsection (c) notwithstanding, if the NO_x control system is not in common use or is not readily available from a commercial supplier, the length of the maximum start-up exemption following activation of the primary furnace combustion system is as follows:

- (1) One hundred days for a container, pressed or blown glass furnace.
- (2) One hundred and five days for a fiberglass furnace.
- (3) Two hundred and eight days for a flat glass furnace and for all other glass melting furnaces not covered under paragraphs (1) and (2).

(e) The Department or appropriate approved local air pollution control agency may approve start-up exemptions, as appropriate, to the extent that the submittal clearly:

- (1) Identifies the control technologies or strategies to be used.
- (2) Describes the physical conditions that prevail during start-up periods that prevent the controls from being effective.
- (3) Provides a reasonably precise estimate as to when physical conditions will have reached a state that allows for the effective control of emissions.

(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.

022 [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.

023 [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) The owner or operator of a glass melting furnace for which the Department or the appropriate approved local air pollution control agency has granted approval to voluntarily opt into a market-based program may not demonstrate compliance on an emissions averaging basis under subsection (b). An emission reduction obtained by emissions averaging to demonstrate compliance with the emission requirements of § 129.304(a) will not be considered surplus for

**SECTION D. Source Level Plan Approval Requirements**

emission reduction credit purposes. The owner or operator of a glass melting furnace shall demonstrate compliance with the emission requirements of § 129.304(a) in accordance with subsection (d).

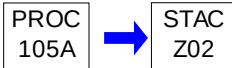
(d) Compliance with the emission requirements of § 129.304(a) shall be determined on a 30-day rolling average basis.

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 105A

Source Name: FIVE (5) ANNEALING LEHRS 2.38 MMBTU/HR

Source Capacity/Throughput:

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

(a) Subsections (b) and (c) apply to all processes except combustion units, incinerators and pulp mill smelt dissolving tanks.

(b) N/A

(c) For processes not listed in subsection (b)(1), including, but not limited to, coke oven battery waste heat stacks and autogeneous zinc coker waste heat stacks, the following apply:

(1) Prohibited emissions. No person may permit the emission into the outdoor atmosphere of particulate matter from a process not listed in subsection (b)(1) in a manner that the concentration of particulate matter in the effluent gas exceeds any of the following:

(i) .04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

(ii) The rate determined by the following formula: $A = 6000 E^{-1}$
where: A = Allowable emissions in grains per dry standard cubic foot, and E = Effluent gas volume in dry standard cubic feet per minute,
when E is equal to or greater than 150,000 but less than 300,000.

(iii) .02 grain per dry standard cubic foot, when the effluent gas volume is greater than 300,000 dry standard cubic feet per minute.

(2) N/A

(d) N/A

[Compliance with the 127.12b BAT particulate matter emissions rate determination ensures compliance with this regulation]

002 [25 Pa. Code §123.21]**General**

(a) This section applies to sources except those subject to other provisions of this article, with respect to the control of sulfur compound emissions.

(b) 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.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).



SECTION D. Source Level Plan Approval Requirements

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Record of manufacturer's emission guarantee and/or the department approved emission factors shall be kept for new lehrs for NO_x, PM₁₀, PM_{2.5}, VOC, CO, and SO_x emission calculations on a consecutive rolling 12 month basis.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 107A

Source Name: GLASS FORMING LUBRICANTS

Source Capacity/Throughput:

PROC 107A	➔	STAC Z107A
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I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §123.13]****Processes**

(a) Subsections (b) and (c) apply to all processes except combustion units, incinerators and pulp mill smelt dissolving tanks.

(b) N/A

(c) For processes not listed in subsection (b)(1), including, but not limited to, coke oven battery waste heat stacks and autogeneous zinc coker waste heat stacks, the following apply:

(1) Prohibited emissions. No person may permit the emission into the outdoor atmosphere of particulate matter from a process not listed in subsection (b)(1) in a manner that the concentration of particulate matter in the effluent gas exceeds any of the following:

(i) .04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

(ii) The rate determined by the following formula: $A = 6000 E^{-1}$
where: A = Allowable emissions in grains per dry standard cubic foot, and E = Effluent gas volume in dry standard cubic feet per minute,
when E is equal to or greater than 150,000 but less than 300,000.

(iii) .02 grain per dry standard cubic foot, when the effluent gas volume is greater than 300,000 dry standard cubic feet per minute.

(2) N/A

(d) N/A

[Compliance with the 127.12b BAT particulate matter emissions rate determination ensures compliance with this regulation]

002 [25 Pa. Code §123.21]**General**

(a) This section applies to sources except those subject to other provisions of this article, with respect to the control of sulfur compound emissions.

(b) 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 §127.12b]**Plan approval terms and conditions.**

The emissions from Source 107A shall not exceed on a consecutive rolling 12 month basis:

a. 0.41 tpy NO_x

b. 0.05 tpy PM₁₀ (filterable and condensable)

c. 0.04 tpy PM_{2.5} (filterable and condensable)

d. 0.89 tpy SO₂

e. 0.1 tpy CO



SECTION D. Source Level Plan Approval Requirements

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The Owner or Operator shall keep a monthly log of mold lubricant usage in the glass forming process. This log shall include at a minimum, type and quantity of lubricant used and the VOC and HAP content of any lubricant. SDS sheet, and the emission calculation on a consecutive 12 month rolling basis is required.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VII. ADDITIONAL REQUIREMENTS.

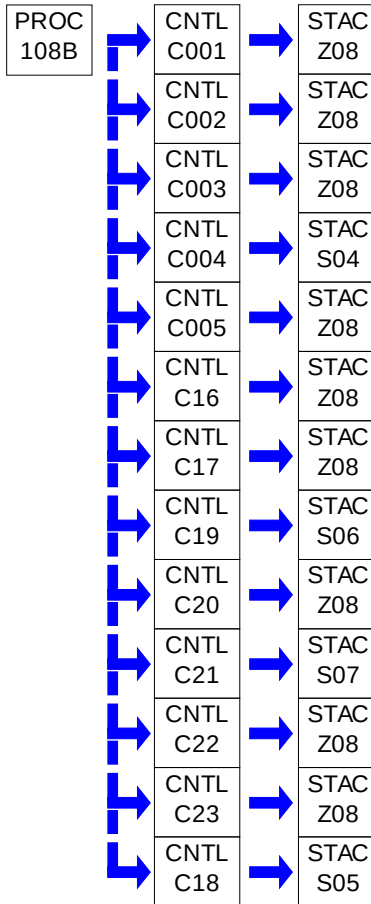
No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 108B

Source Name: BATCH PLANT

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

(a) Subsections (b) and (c) apply to all processes except combustion units, incinerators and pulp mill smelt dissolving tanks.

(b) N/A

(c) For processes not listed in subsection (b)(1), including, but not limited to, coke oven battery waste heat stacks and autogeneous zinc coker waste heat stacks, the following apply:

(1) Prohibited emissions. No person may permit the emission into the outdoor atmosphere of particulate matter from a process not listed in subsection (b)(1) in a manner that the concentration of particulate matter in the effluent gas exceeds any of the following:

(i) .04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

(ii) The rate determined by the following formula: $A = 6000 E^{-1}$

where: A = Allowable emissions in grains per dry standard cubic foot, and E = Effluent gas volume in dry standard cubic feet per minute,

**SECTION D. Source Level Plan Approval Requirements**

when E is equal to or greater than 150,000 but less than 300,000.

(iii) .02 grain per dry standard cubic foot, when the effluent gas volume is greater than 300,000 dry standard cubic feet per minute.

(2) N/A

(d) N/A

[Compliance with the 127.12b BAT particulate matter emissions rate determination ensures compliance with this regulation]

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

The emissions from Source 108A shall not exceed on a consecutive rolling 12 month basis:

- a. 0.99 tpy PM10 (filterable and condensable)
- b. 0.79 tpy PM2.5 (filterable and condensable)

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

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

Record keeping of the Batch Plant usage, maintenance and the emission calculation on a consecutive 12 month rolling basis is required.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).



SECTION E. Source Group Plan Approval Restrictions.

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Plan Approval facility.

**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.



SECTION H. Miscellaneous.



***** End of Report *****
