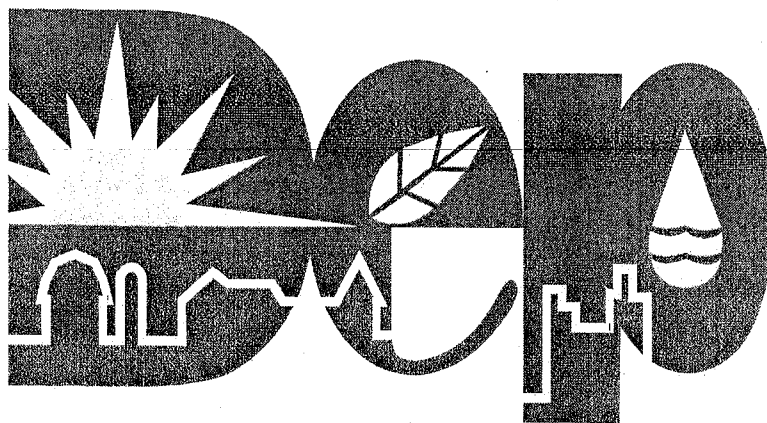


**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL
PROTECTION**

**Northcentral Regional Office
Air Quality Program**



TITLE V OPERATING PERMIT # 14-00001

**CORNING ASAHI VIDEO PRODUCTS CO.
STATE COLLEGE FACILITY
*College Twp, Centre County.***

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM****TITLE V/STATE OPERATING PERMIT**

ISSUE DATE: 30-OCT-00

EFFECTIVE DATE: 30-OCT-00

EXPIRATION DATE: 29-OCT-05

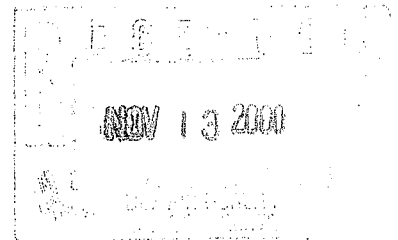
In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to operate the air emission source(s) more fully described in the site inventory list. 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: 14-00001

TAX-ID/PLANT CODE 16-1329391/01

OWNER CORNING ASAHI VIDEO PROD CO
MAILING 3500 EAST COLLEGE AVENUE
ADDRESS STATE COLLEGE, PA. 16801



PLANT STATE COLLEGE
LOCATION 14 Centre County 14908 College Twp
SIC CODE 3229 Manufacturing - Pressed And Blown Glass, Nec

RESPONSIBLE OFFICIAL

NAME RONALD J KOVALCIN
TITLE PLANT MANAGER

PERMIT CONTACT PERSON

NAME GENE PROCH
TITLE REGULATORY AFFAIRS MANAGER
PHONE (814) 231-4390

[SIGNATURE]

DAVID W ALDENDERFER, NORTHCENTRAL REGION AIR PROGRAM MANAGER

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

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Section G. Emission Restriction Summary

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SECTION A. Site Inventory List

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ID	Source Name	Capacity	Fuel/Material
031	2 BOILERS		Natural Gas
032	2.5 MMBTU/HR BOILER	2.5 MMBTU/HR	#2 OIL
033	150 SPACE HEATERS		
P101	GLASS MELT TANK NO. 221		COLOR TV PANELS
			Natural Gas
P102	GLASS MELT TANK NO. 222		Natural Gas
			PCTRE TUBE FUNL
P103	GLASS MELT TANK NO. 223		COLOR TV PANELS
			Natural Gas
P104	NG EMERGENCY GENERATOR		NATURAL GAS
P105	FORMING & HOTEND FINISHING EQUIPMNT		Natural Gas
P106	2 ANNEALING LEHRS		Natural Gas
P107	6 ANNEALING LEHRS (RACT)		Natural Gas
P108	3 CAUSTIC STRIPPING TANKS		
P111	SILOS, BINS, HOPPERS, ETC		
P113	DEGREASER		
P116	2 FIRE PUMP ENGINES		#2 Oil
P122	3 CHROME PLATING TANKS		
C101	UNITED MCGILL E.S.P. 221		
C102	UNITED MCGILL E.S.P. 222		
C103	UNITED MCGILL E.S.P. 223		
C108	PACKED BED SCRUBBER		
C111	58 DUST COLLECTORS		
C122	COMPOSITE MESH PAD SCRUBBER		
FM01	NATURAL GAS LINE		
FM03	DIESEL TANK		
FM05	#2 OIL TANK		
S01	FURNACE STACK 1		
S02	FURNACE STACK 2		
S03	FURNACE STACK 3		
S033	HEATERS STACKS		
S034	PROCESS STACKS		
S108	CAUSTIC TANKS STACK		
S111	SILO STACK		
S116	ENGINE STACK		
S122	PLATING STACK		
S26	BOILERS STACKS		
Z01	FUGITIVE EMISSIONS		

FML Comb EP
FM01 -->031 -->S26

SECTION A. Site Inventory List

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FML Comb EP
FM05 -->032 -->S033

FML
FM05 -->

FML Comb EP
FM01 -->033 -->Z01

FML Proc CD EP
FM01 -->P101 -->C101 -->S01
|
CD EP
-->C103 -->S03

FML Proc CD EP
FM01 -->P102 -->C102 -->S02
|
CD EP
-->C103 -->S03

FML Proc CD EP
FM01 -->P103 -->C103 -->S03
|
CD EP
-->C101 -->S01

FML Proc EP
FM01 -->P104 -->S116

FML Proc EP
FM01 -->P105 -->Z01

SECTION A. Site Inventory List

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FML Proc EP
FM01 -->P106 -->S034

FML Proc EP
FM01 -->P107 -->S034

Proc CD EP
P108 -->C108 -->S108

Proc CD EP
P111 -->C111 -->S111

Proc EP
P113 -->Z01

FML Proc EP
FM03 -->P116 -->S116

Proc CD EP
P122 -->C122 -->S122

#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 §127.512(c)(4)]

Property Rights

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

#003 [25 Pa. Code §127.446(a) and (c)]

Permit Expiration

This permit is issued for a fixed term of 5 years from the effective date shown on page 2 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.

#004 [25 Pa. Code §§127.412, 127.413, 127.414, 127.446(e) & 127.503]

Permit Renewal

(a) An application for the renewal of the Title V permit shall be submitted to the Department at least 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.

(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 submit such supplementary facts or corrected information during the permit renewal process. The permittee shall also 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.

#005 [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 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.

#006 [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.

#007 [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 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. Nothing in this sub-condition shall be construed to create an independent affirmative duty upon the permittee to obtain a predetermination from the Department for physical configuration or engineering design detail changes made by the permittee.

#008 [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.

#009 [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.

#010 [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 3 or more years prior to the expiration date of this permit. The permit revision shall be completed within 18 months after promulgation of the applicable requirement. 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.

#011 [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.

#012 [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.

#013 [25 Pa. Code §§121.1 & 127.462]
Minor Operating Permit Modifications

(a) The permittee may make minor operating permit modifications (as defined in 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.

(b) 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 an operational flexibility change authorized by 25 Pa. Code § 127.462.

#014 [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), according to procedures specified in § 127.450. Administrative amendments are not authorized for any amendment precluded by the Clean Air Act or the regulations thereunder from being processed as an administrative amendment.

(b) Upon taking final action granting a request for an administrative permit amendment in accordance with § 127.450(c), the Department will allow coverage under 25 Pa. Code § 127.516 (relating to permit shield) for administrative permit amendments which meet the relevant requirements of 25 Pa. Code Article III, unless precluded by the Clean Air Act or the regulations thereunder.

#015 [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 to be invalid or unenforceable, such a determination will not affect the remaining provisions of this permit.

#016 [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).
- (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.
- (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 administration fee according to the fee schedule established in 25 Pa. Code § 127.704(c) if the facility, identified in subparagraph (iv) of the definition of the term "Title V facility" in 25 Pa. Code § 121.1, is subject to Title V after the EPA Administrator completes a rulemaking requiring regulation of those sources under Title V of the Clean Air Act.
- (f) This permit condition does not apply to a Title V facility which qualifies for exemption from emission fees under 35 P.S. § 4006.3(f).

#017 [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 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:

(i) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.

(ii) 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.

(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, liquified 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) applies to de minimis emission increases and the installation of minor sources made pursuant to this permit condition.

(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.

#018 [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 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 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).

#019 [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 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.

#020 [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 Programs Section (3AT13)
United States Environmental Protection Agency
Region 3
1650 Arch Street
Philadelphia, PA 19103-2029

(c) An application, form, report or compliance certification submitted pursuant to this permit condition shall contain a certification by a responsible official as to truth, accuracy, and completeness as required under 25 Pa. Code § 127.402(d).

(d) Unless otherwise required by the Clean Air Act or regulations adopted thereunder, a responsible official of the facility shall certify that based on information and belief formed after reasonable inquiry, the statements and information in the documents are true, accurate, and complete.

#021 [25 Pa. Code §127.441(c) & 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.

#022 [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.

(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.

#023 [25 Pa. Code §§ 127.411(d), 127.442 & 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 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 #020(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.

#024 [25 Pa. Code §127.513]
Compliance Certification

(a) Within one year from the date of issuance of the Title V permit and each year thereafter, the permittee shall submit to the Department and EPA Region III a certification of compliance with the terms and conditions in this permit 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 submitted to the Department and EPA in accordance with the submission requirements specified in permit condition #020 of this section.

#025 [25 Pa. Code §127.3]
Operational Flexibility

(a) 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)

(b) Unless precluded by the Clean Air Act or the regulations adopted thereunder, the permit shield authorized under 25 Pa. Code § 127.516 shall extend to operational flexibility changes made at this Title V facility pursuant to this permit condition and other applicable

operational flexibility terms and conditions of this permit.

#026 [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 prepare and implement the RMP 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) June 21, 1999;

(ii) Three years after the date on which a regulated substance is first listed under § 68.130; or

(iii) 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 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.

(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 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 Condition #24 of Section B of this Title V 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).

#027 [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.

#028 [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 on minor or significant permit modifications, and operational flexibility changes shall be covered by the permit shield. Upon taking final action granting a request for an administrative permit amendment, the Department will allow coverage of the amendment by the permit shield in § 127.516 for administrative amendments which meet the relevant requirements of 25 Pa. Code Article III.

(d) The permit shield authorized under § 127.516 is in effect for the permit terms and conditions in this Title V permit, including administrative operating permit amendments and minor operating permit modifications.

I. RESTRICTIONS.

Emission Limitation(s).

#001 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

No person may permit the emission into the outdoor atmosphere of fugitive air contaminants 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) Sources and classes of sources other than those identified above, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (a) The emissions are of minor significance with respect to causing air pollution.
 - (b) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

#002 [25 Pa. Code §123.2]

Fugitive particulate matter

No person may permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in condition #001 above if the emissions are visible at the point the emissions pass outside the person's property.

#003 [25 Pa. Code §123.31]

Limitations

No person may permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

#004 [25 Pa. Code §123.41]

Limitations

No person may 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 three minutes in any 1 hour.
- (2) Equal to or greater than 60% at any time.

#005 [25 Pa. Code §123.42]

Exceptions

The emission limitations of 25 Pa Code Section 123.41 shall not apply when:

- (1) The presence of uncombined water is the only reason for failure of the emission to meet the limitations;
- (2) The emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions;
- (3) The emissions results from sources specified in 25 Pa Code Section 123.1(a)(1)-(9).

Fuel Restriction(s).

#006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The sulfur content of the #2 and lighter fuel oil used at this facility shall not exceed 0.5% (by weight).

II. TESTING REQUIREMENTS.

#007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code 139.2 and 127.511]

(a) At least 60 days prior to the performance of any stack testing required by this permit, a pretest plan shall be submitted to the Department for evaluation. This pretest plan shall contain the specific testing proposed, a list of all operating data which will be recorded, a description of the method of determining heat input and the analytical procedures to be used in performing the testing.

(b) The Department shall be given at least 14 days advance notice of the specific dates and times for the performance of any stack testing required by this permit in order that Department personnel can arrange to be present. The Department is under no obligation to accept the results of any testing performed without adequate notice having been given to the Department.

(c) Within 60 days of completion of any stack testing required by this permit, two copies of the test report shall be submitted to the Department. The report shall contain the results of the testing (expressed in units that easily verify compliance with permit conditions), a description of the testing and analytical procedures actually used, all operating data collected during the tests, a copy of the raw data and a copy of the calculations generated during the data analysis.

#008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall perform tests (in accordance with the provisions of 25 Pa. Code Chapter 139) or provide a fuel certification report of the percent sulfur by weight of each delivery of the #2 (and lighter) fuel oil delivered to this facility.

OR

The permittee shall keep records of the fuel certification reports obtained yearly from the fuel oil supplier stating that the sulfur

percentage for each shipment of #2 (and lighter) fuel oil delivered to the facility during the year shall not exceed 0.5% sulfur by weight.

#009 [25 Pa. Code §139.1]
Sampling facilities.

Upon the request of the Department, the person responsible for a source shall provide adequate sampling ports, safe sampling platforms and adequate utilities for the performance by the Department of tests on such source. The Department will set forth, in the request, the time period in which the facilities shall be provided as well as the specifications for such facilities.

#010 [25 Pa. Code §139.11]
General requirements.

(a) As specified in 25 Pa. Code Section 139.11(1), performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.

(b) As specified in 25 Pa. Code Section 139.11(2), the Department will consider test results for approval where sufficient information is provided to verify the source conditions existing at the time of the test and where adequate data is available to show the manner in which the test was conducted. Information submitted to the Department shall include, as a minimum all of the following:

(1) A thorough source description, including a description of any air cleaning devices and the flue.

(2) Process conditions, for example, the charging rate of raw materials or the rate of production of final product, boiler pressure, oven temperature and other conditions which may effect emissions from the process.

(3) The location of sampling ports.

(4) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage CO, CO₂, O₂ and N₂), static and barometric pressures.

(5) Sample collection techniques employed, including procedures used, equipment descriptions and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test

conditions were met.

(6) Laboratory procedures and results.

(7) Calculated results.

III. MONITORING REQUIREMENTS.

#011 [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 certified, to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

#012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) The permittee shall conduct a weekly inspection of the facility during daylight hours while the facility is operating to detect visible emissions, visible fugitive emissions and malodors. Weekly inspections are necessary to determine (but not necessarily measure):

(1) the presence of visible emissions.

(2) the presence of visible fugitive emissions.

(3) the presence of malodors beyond the facility's property boundaries.

(b) All detected visible emissions, visible fugitive emissions or malodors that have the potential to exceed applicable limits shall be reported to the manager of the facility.

IV. RECORDKEEPING REQUIREMENTS.

#013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall maintain a logbook of the weekly facility inspections performed. The logbook shall include the name of the company representative performing the weekly inspection, the date and time of inspections; any instances of exceedances of visible emissions limitations, visible fugitive emissions limitations and malodorous air emissions limitations, and the name of the manager informed if a potential exceedance is observed. The permittee shall also record the corrective action(s) taken to abate each recorded deviation to prevent future occurrences.

These records shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

#014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall keep records of the analysis or certification reports verifying compliance with the sulfur oxide content limitations for all fuel oil delivered to this facility.

These records shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

#015 [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 (relating to reporting). 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.

V. REPORTING REQUIREMENTS.

#016 [25 Pa. Code §127.442]

Reporting requirements.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) The permittee shall report malfunctions to the Department which occur at this facility. As defined in 40 CFR Section 60.2 and incorporated by reference in 25 Pa. Code Chapter 122, a malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner that may result in an increase in the emissions of air contaminants. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

(b) Failures that are caused in part by poor maintenance or careless operation shall be reported as excess emissions or deviations from this permits requirements.

(c) When the malfunction, excess emissions or deviation from this permits requirements poses an imminent and substantial danger to the public health and safety or the environment, the permittee shall notify the Department by telephone no later than one (1) hour after the incident.

(d) Except as reported to the Department in accordance with 25 Pa. Code Chapter 139 and the Departments Continuous Source Monitoring Manual, any malfunction, excess emissions or deviation from this permit's requirements that is not subject to the notice requirements of subsection (c) of this permit condition shall be reported to the Department within 24 hours of discovery. In notifying the Department, the permittee shall describe the following:

- (i) name and location of the facility;
- (ii) nature and cause of the malfunction or breakdown;
- (iii) time when the malfunction or breakdown was first observed;
- (iv) expected duration of excess emissions;
- (v) estimated rate of emissions; and
- (vi) corrective actions or preventative measures taken.

(e) The permittee shall notify the Department immediately when corrective measures have been accomplished.

(f) Upon the request of the Department, the permittee shall submit a full written report to the Regional Air Program Manager within fifteen (15) days of the malfunction, excess emissions or deviations from this permits

requirements.

#017 [25 Pa. Code §135.3]
Reporting

(a) A person who owns or operates a source to which 25 Pa. Code Chapter 135 applies, and who has previously been advised by the Department to submit an annual Air Information Management Systems (AIMS) report, shall submit by March 1 of each year an annual AIMS report for the preceding calendar year. The report shall include information for all 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.

(b) A person who receives initial notification by the Department that an annual AIMS report is necessary shall submit an initial annual AIMS report within 60 days after receiving the notification or by March 1 of the year following the year for which the report is required, whichever is later.

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

#018 [25 Pa. Code §135.21]
Emission statements

(a) The permittee shall provide the Department with a statement of each stationary source in a form as prescribed by the Department, showing the actual emissions of oxides of nitrogen and volatile organic compounds from the permitted facility for each reporting period, a description of the method used to calculate the emissions and the time period over which the calculation is based.

(b) The annual emission statements are due by March 1 for the preceding calendar year and shall contain a certification by a company officer or the plant manager that the information contained in the statement is accurate. The Emission Statement shall provide data consistent with requirements and guidance developed by the EPA.

(c) 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 Air Pollution Control Act.

VI. WORK PRACTICE STANDARDS.

#019 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

The permittee shall take all reasonable actions for any source specified in 25 Pa Code Section 123.1(a)(1-9) to prevent particulate matter from becoming airborne. These actions shall include, but not 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, 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.

VII. ADDITIONAL REQUIREMENTS.

#020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This operating permit (TVOP 14-00001) also serves as a Prevention of Significant Deterioration (PSD) permit issued pursuant to the provisions of 40 CFR 52.21.

#021 [25 Pa. Code §129.14]

Open burning operations

No person may permit the open burning of material at this facility unless in accordance with 25 Pa. Code Section 129.14.

VIII. COMPLIANCE CERTIFICATION.

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

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

***** PERMIT SHIELD IN EFFECT. *****

Source ID: 031
Source Name: 2 BOILERS

SOURCE CAPACITY:

Natural Gas

FML Comb EP
FM01 -->031 -->S26

I. RESTRICTIONS.

Emission Limitation(s).

#001 [25 Pa. Code §123.11]

Combustion units

No person may permit the emission into the outdoor atmosphere of Particulate Matter from the exhaust of each boiler of Source ID 031 in excess of 0.4 pounds per million BTU of heat input.

#002 [25 Pa. Code §123.22]

Combustion units

[Compliance with the requirement specified in this streamlined permit condition assures compliance with the provision in 40 CFR 52.2020(c)(1)]

No person may permit the emission into the outdoor atmosphere of Sulfur Oxides (SOx), expressed as SO₂, from the exhaust of each boiler of Source ID 031 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

Fuel Restriction(s).

#003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only fire natural gas in each boiler of Source ID 031.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

#004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.93 and 127.511]

The permittee shall keep a logbook of each adjustment for each boiler of Source ID 031 which shall at a minimum contain the following information:

- (i) The date of the tuning procedure.
- (ii) The name of the service company and technicians.
- (iii) The final operating rate or load.
- (iv) The final CO and NOx emission rates.
- (v) The final excess oxygen rate.

These records shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

#005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) The permittee shall keep records of the annual boiler adjustments or tune-ups including any corrective measures taken for each boiler of Source ID 031.

(b) The permittee shall keep records of the calculations used to verify compliance with the sulfur oxide and particulate matter emissions limitations for Source ID 031.

These records shall be retained for a minimum of 5 years and shall be

made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE STANDARDS.

#006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.93]

(a) The permittee shall comply with the annual tune-ups, maintenance, and operating vendor guidelines for each source of Source ID 031 in accordance with the presumptive RACT provisions of 25 Pa. Code Sections 129.93(b)(2), (3), (4) & (5). The annual adjustment or tune-up shall also include at a minimum, the following:

(i) Inspection, adjustment, cleaning or replacement of fuel-burning equipment, including the burners and moving parts necessary for proper operation as specified by the manufacturer.

(ii) Inspection of the flame pattern or characteristics and adjustments necessary to minimize total emissions of NO_x, and to the extent practicable minimize emissions of CO.

(iii) Inspection of the air-to-fuel ratio control system and adjustments necessary to ensure proper calibration and operation as specified by the manufacturer.

(b) The permittee shall make the annual adjustment in accordance with the EPA document "Combustion Efficiency Optimization Manual for Operators of Oil and Gas-fired Boilers", September 1983 (EPA-340/1-83-023).

VII. ADDITIONAL REQUIREMENTS.

#007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 031 is 2 natural gas fired Cleaver Brooks boilers, each with a 25 MMBTU/hr capacity.

***** PERMIT SHIELD IN EFFECT. *****

Source ID: 032

Source Name: 2.5 MMBTU/HR BOILER

SOURCE CAPACITY:

2.5 MMBTU/HR #2 OIL

FML Comb EP
FM05 -->032 -->S033

I. RESTRICTIONS.

Emission Limitation(s).

#001 [25 Pa. Code §123.22]

Combustion units

[Compliance with the requirement specified in this streamlined permit condition assures compliance with the provision in 40 CFR 52.2020(e)(1)]

No person may permit the emission into the outdoor atmosphere of Sulfur Oxides (SOx, expressed as SO2) from the exhaust of Source ID 032 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 §127.441]

Operating permit terms and conditions.

The permittee shall only fire #2 fuel oil in the boiler of Source ID 032.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE STANDARDS.

#003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.93]

The permittee shall maintain and operate Source ID 032 in accordance with the manufacturers specifications and good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

#004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 032 is a Cleaver Brooks model CB100-60 #2 oil fired (Natural gas capable) boiler rated at 2.5 MMBtu/hr located near the funnel finishing line.

***** PERMIT SHIELD IN EFFECT. *****

Source ID: 033
Source Name: 150 SPACE HEATERS

SOURCE CAPACITY:

FML
FM05 -->

FML Comb EP
FM01 -->033 -->Z01

I. RESTRICTIONS.

Fuel Restriction(s).

#001 [25 Pa. Code §127.441]
Operating permit terms and conditions.

The permittee shall only fire natural gas or #2 or lighter fuel oil in each space heater of Source ID 033.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE STANDARDS.

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

VII. ADDITIONAL REQUIREMENTS.

#002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 033 is 150 space heaters rated between 0.02 to 1.65 MMBtu/hr most firing natural gas and several firing kerosene. The permittee shall provide a list of all space heaters at the facility.

***** PERMIT SHIELD IN EFFECT. *****

SECTION D.
Source Level Requirements

10/30/00 PAGE: 42
14-00001

Source ID: P101

Source Name: GLASS MELT TANK NO. 221

SOURCE CAPACITY:

COLOR TV PANELS
Natural Gas

FML	Proc	CD	EP
FM01	-->P101	-->C101	-->S01
		CD	EP
		-->C103	-->S03

I. RESTRICTIONS.

Emission Limitation(s).

#001 [25 Pa. Code §123.21]

General

No person may permit the emission from the exhaust of Source ID P101 into the outdoor atmosphere in a manner that the concentration of sulfur oxides (SOx), expressed as SO₂, in the effluent gas is in excess of 500 parts per million, by volume, dry basis.

#002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91]

The combined nitrogen oxides emissions (NO_x, expressed as NO₂) from Sources ID P101, P102 and P103 shall not exceed 11.2 tons per day and 2042 tons in any 12 consecutive month period.

#003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 40 CFR Section 52.21]

(a) Pursuant to the best available control technology (BACT) provisions, the combined emissions of lead/lead compounds from Sources ID P101, P102 and P103 shall not exceed 6.0 tons in any 3 consecutive month period and 20.2 tons in any 12 consecutive month period.

(b) Pursuant to the best available control technology (BACT) provisions, the combined emissions of carbon monoxide from Sources ID P101, P102 and P103 shall not exceed 12 tons per day and 1835 tons in any 12 consecutive month period.

#004 [25 Pa. Code §127.441]
Operating permit terms and conditions.

The combined emissions of fluoride from Sources ID P101, P102 and P103 shall not exceed 11.4 tons in any 12 consecutive month period.

#005 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Compliance with the requirement specified in this streamlined permit condition assures compliance with the provision in 25 Pa. Code Section 123.13]

If it becomes necessary to take the electrostatic precipitator (ID C101) associated with Source ID P101 off-line for maintenance purposes, Source ID P101 may continue to operate but its exhaust shall be directed to the electrostatic precipitator (ID C103) normally associated with Source ID P103 which will then be the emissions from both Source ID P101 and P103, the particulate matter emissions from the exhaust of electrostatic precipitator ID C103 associated with Source ID P101 and P103 shall not exceed 0.02 grains per dry standard cubic foot and 21.0 pounds per hour, the PM10 emissions shall not exceed 0.02 grains per dry standard cubic foot and 21.0 pounds per hour and the lead/lead compounds emissions shall not exceed 9.5 pounds per hour.

#006 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 40 CFR Part 52 Section 52.21]

[Compliance with the requirement specified in this streamlined permit condition assures compliance with the provision in 25 Pa. Code Section 123.13]

(a) Pursuant to the best available control technology (BACT) provisions, the emission of lead/lead compounds from the exhaust of electrostatic precipitator ID C101 associated with Source ID P101 (tank #221) shall not

be in excess of 1.30 pounds per hour, except as may be allowed pursuant to condition #5 of Source ID P101.

(b) Pursuant to the best available control technology (BACT) provisions, neither particulate matter nor PM10 shall be emitted from the exhaust of electrostatic precipitator ID C101 associated with Source ID P101 (tank #221) in excess of 0.009 grains per dry standard cubic foot of exhaust, 4.6 pounds per hour and 23.1 tons in any 12 consecutive month period, except as may be allowed pursuant to condition #5 of Source ID P101.

#007 [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.

The permittee shall comply with all applicable requirements specified in 40 CFR Part 60, Section 60.292, Standards for Particulate Matter, for Source ID P101.

Fuel Restriction(s).

#008 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91]

The permittee shall only fire natural gas in Source ID P101 (tank #221).

Operating Schedule Restriction(s).

#009 [25 Pa. Code §127.441]
Operating permit terms and conditions.

Source ID P101 shall exhaust to electrostatic precipitator ID C103 for no more than 504 hours in any 12 consecutive month period and there shall be a total of no more than 504 hours in any 3 consecutive month period of electrostatic precipitator "cross-connect" (bypass/maintenance) time for Sources ID P101, P102 and P103 combined, unless, the permittee is able to demonstrate, via stack testing, that:

(a) the emission of lead/lead compounds are not in excess of 1.30 pounds per hour, particulate matter and PM10 emissions are not in excess of 0.009 grains per dry standard cubic foot of exhaust, 4.6 pounds per hour and 23.1 tons in any 12 consecutive month period from electrostatic

precipitator ID C103 while controlling the exhaust from both Sources ID P101 and P103.

(b) the emission of lead/lead compounds are not in excess of 1.13 pounds per hour, particulate matter and PM10 emissions are not in excess of 0.01 grains per dry standard cubic foot of exhaust, 1.5 pounds per hour and 7.0 tons in any 12 consecutive month period from electrostatic precipitator ID C103 while controlling the exhaust from both Sources ID P102 and P103.

(c) the emission of lead/lead compounds are not in excess of 0.75 pounds per hour, particulate matter and PM10 emissions are not in excess of 0.005 grains per dry standard cubic foot of exhaust, 2.7 pounds per hour and 17.9 tons in any 12 consecutive month period from electrostatic precipitator ID C101 while controlling the exhaust from both Sources ID P103 and P101.

Throughput Restriction(s).

#010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not operate Source ID P101 at a fill rate in excess of the rate specified as the furnace's maximum fill rate in the Request for Approval dated 10/24/1997 and supplemental materials unless the permittee is able to demonstrate, via stack testing, that the air contaminant emissions are in compliance with all applicable emission limits at the higher fill rate for Source ID P101.

II. TESTING REQUIREMENTS.

#011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) The permittee shall perform total particulate, PM10 and lead/lead compound stack testing on Source ID P101 at least twice between December 1, 2000 through December 31, 2003 while the furnace is being operated at maximum capacity and while it is ducted to the electrostatic precipitator normally used for the control of its air contaminant emissions. The first occurrence of stack testing shall occur no earlier than December 1, 2000 and no later than December 31, 2001. The second occurrence of stack testing shall occur no earlier than December 1, 2002 and no later than

December 31, 2003.

(b) The permittee shall additionally perform fluoride stack testing at least twice during the same period on any furnace in which fluoride-bearing batch materials are used. These tests are also to be performed under the same conditions as specified above. In the event that fluoride-bearing batch materials are not used in the furnace during a specific testing period, fluoride stack testing is not required for that period. If the use of fluoride-bearing batch materials is resumed after a stack testing period has past, the permittee shall perform fluoride stack testing within 6 months after initial use of the fluoride-bearing batch materials.

(c) In addition to the stack testing discussed above, the permittee shall perform total particulate, PM10 and lead/lead compound stack testing for each of the electrostatic precipitator "cross-connect" scenarios at least once between December 1, 2001 and December 31, 2003.

#012 [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.

The permittee shall comply with all applicable testing requirements specified in 40 CFR Section 60.296.

III. MONITORING REQUIREMENTS.

#013 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall maintain and operate continuous carbon monoxide, nitrogen oxide and exhaust gas flow monitoring systems on the exhaust of Source ID P101 after associated control devices in accordance with all applicable requirements specified in 25 Pa. Code Chapter 139 and the Department's Continuous Source Monitoring Manual.

IV. RECORDKEEPING REQUIREMENTS.

#014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

- (a) The permittee shall keep monthly records of supporting calculations used to verify compliance with the combined 12 consecutive month emissions limitations for fluoride, carbon monoxide, lead/lead compounds and nitrogen oxide emissions from Sources ID P101, P102 and P103.
- (b) The permittee shall keep records of supporting calculations used to verify compliance with the combined daily emissions limitations for nitrogen oxides and carbon monoxide emissions from Sources ID P101, P102 and P103.

These records shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

#015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

- (a) The permittee shall keep records of the number of hours per month that Source ID P101 is exhausted to electrostatic precipitator ID C103 (cross-connect operations).
- (b) The permittee shall keep continuous records documenting the furnace fill rate for Source ID P101.
- (c) The permittee shall keep per batch records of the cullet ratio, fluoride-bearing batch material addition rates and lead/lead compound-bearing batch material addition rates for Source ID P101.
- (d) The permittee shall keep continuous records of the electrostatic precipitator secondary voltage and current for the electrostatic precipitator (ID C101) of Source ID P101 (records shall contain a minimum of 75% valid data readings).
- (e) The permittee shall keep records of the calculations used to verify compliance with the short term sulfur oxide, particulate matter and PM10 emissions limitations for Source ID P101.

(f) The permittee shall keep monthly records to verify compliance with the 12 consecutive month particulate matter and PM10 emissions limitations for Source ID P101.

(g) The permittee shall keep records of stack test reports completed for Source ID P101.

These records shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

**#016 [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.**

The permittee shall comply with all applicable recordkeeping requirements specified in 40 CFR Part 60 Sections 60.290 through 60.296.

V. REPORTING REQUIREMENTS.

**#017 [25 Pa. Code §127.441]
Operating permit terms and conditions.**

Pursuant to 40 CFR 60.4 of the Standards of Performance, the submission of all requests, reports, applications, submittals and other communications required by 40 CFR Part 60 Subpart CC must be made to both the Department and the Environmental Protection Agency (EPA). The EPA copies may be sent to:

U.S. EPA Region III
1650 Arch Street
11th Floor
3WC22
Philadelphia, PA 19103-2029

**#018 [25 Pa. Code §127.441]
Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall annually report calculations verifying compliance with the combined 12 consecutive month emissions limitations for fluoride, carbon monoxide, lead/lead compounds and nitrogen oxide

emissions from the source group Sources ID P101, P102 and P103.

Annual reports shall be submitted to the Department no later than March 1 for the preceding year.

#019 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall annually report calculations verifying compliance with the 12 consecutive month emissions limitations for particulate matter and PM10 emissions from Source ID P101.

Annual reports shall be submitted to the Department no later than March 1 for the preceding year.

#020 [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.

The permittee shall comply with all applicable reporting requirements specified in 40 CFR Part 60 Sections 60.290 through 60.296.

VI. WORK PRACTICE STANDARDS.

#021 [25 Pa. Code §127.441]
Operating permit terms and conditions.

If it becomes necessary to take the electrostatic precipitator (ID C101) associated with Source ID P101 off-line for maintenance purposes, Source ID P101 may continue to operate but its exhaust shall be directed to the electrostatic precipitator ID C103 normally associated with Source ID P103 which shall be used to control the particulate matter, PM10 and lead/lead compounds emissions from both Source ID P101 and P103 for the duration of the Source ID P101 electrostatic precipitator (ID C101) bypass/maintenance period.

#022 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91 and 40 CFR Section 52.21]

Pursuant to the best available control technology (BACT) provisions and the Reasonably Available Control Technology (RACT) provisions, the permittee shall not use Source ID P101 to produce any type of glass other than that currently produced in each furnace unless Departmental approval is first obtained.

#023 [25 Pa. Code §127.441]
Operating permit terms and conditions.

There shall be no intentional addition of arsenic or arsenic-bearing batch materials to Source ID P101 (this condition specifically excludes any "tramp" amounts of arsenic that may be present in raw materials or cullet).

VII. ADDITIONAL REQUIREMENTS.

#024 [25 Pa. Code §127.441]
Operating permit terms and conditions.

Source ID P101 (glass melting tank #221) is a side port regenerative glass melting natural gas/air fired furnace. Particulate matter, PM10 and lead/lead compound emissions from Source ID P101 shall be controlled by the electrostatic precipitator ID C101.

#025 [25 Pa. Code §127.441]
Operating permit terms and conditions.

Source ID P101 is subject to Subpart CC of the Federal Standards of Performance for New Stationary Sources, 40 CFR 60.290-60.296. The permittee shall comply with all applicable requirements of this Subpart.

***** PERMIT SHIELD IN EFFECT. *****

Source ID: P102

Source Name: GLASS MELT TANK NO. 222

SOURCE CAPACITY:

Natural Gas
PCTRE TUBE FUNL

FML	Proc	CD	EP
FM01	-->P102	-->C102	-->S02
		CD	EP
		-->C103	-->S03

I. RESTRICTIONS.

Emission Limitation(s).

#001 [25 Pa. Code §123.21]

General

No person may permit the emission from the exhaust of Source ID P102 into the outdoor atmosphere in a manner that the concentration of sulfur oxides (SOx), expressed as SO₂, in the effluent gas is in excess of 500 parts per million, by volume, dry basis.

#002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91]

The combined nitrogen oxides emissions (NO_x, expressed as NO₂) from Sources ID P101, P102 and P103 shall not exceed 11.2 tons per day and 2042 tons in any 12 consecutive month period.

#003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 40 CFR Section 52.21]

(a) Pursuant to the best available control technology (BACT) provisions, the combined emissions of lead/lead compounds from Sources ID P101, P102 and P103 shall not exceed 6.0 tons in any 3 consecutive month period and 20.2 tons in any 12 consecutive month period.

(b) Pursuant to the best available control technology (BACT) provisions, the combined emissions of carbon monoxide from Sources ID P101, P102 and P103 shall not exceed 12 tons per day and 1835 tons in any 12 consecutive month period.

#004 [25 Pa. Code §127.441]
Operating permit terms and conditions.

The combined emissions of fluoride from Sources ID P101, P102 and P103 shall not exceed 11.4 tons in any 12 consecutive month period.

#005 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 40 CFR 52.21]

[Compliance with the requirement specified in this streamlined permit condition assures compliance with the provision in 25 Pa. Code Section 123.13]

(a) Pursuant to the best available control technology (BACT) provisions, neither particulate matter nor PM10 shall be emitted from the exhaust of electrostatic precipitator ID C102 associated with Source ID P102 in excess of 0.01 grains per dry standard cubic foot, 1.5 pounds per hour and 7.0 tons in any 12 consecutive month period, except as may be allowed pursuant to condition #6 of Source ID P102.

(b) Pursuant to the best available control technology (BACT) provisions, the lead/ lead compound emissions from electrostatic precipitator ID C102 associated with Source ID P102 shall not exceed 1.13 pounds per hour, except as may be allowed pursuant to condition #6 of Source ID P102.

#006 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Compliance with the requirement specified in this streamlined permit condition assures compliance with the provision in 25 Pa. Code Section 123.13]

If it becomes necessary to take the electrostatic precipitator (ID C102) associated with Source ID P102 off-line for maintenance purposes, Source ID P102 may continue to operate but its exhaust shall be directed to the

electrostatic precipitator (ID C103) normally associated with Source ID P103 which will then be the emissions from both Source ID P102 and P103, the particulate matter emissions from the exhaust of electrostatic precipitator ID C103 associated with Source ID P102 and P103 shall not exceed 0.02 grains per dry standard cubic foot and 13.5 pounds per hour, the PM10 emissions shall not exceed 0.02 grains per dry standard cubic foot and 13.5 pounds per hour and the lead/lead compounds emissions shall not exceed 11.5 pounds per hour.

#007 [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.

The permittee shall comply with all applicable requirements specified in 40 CFR Part 60, Section 60.292, Standards for Particulate Matter, for Source ID P102.

Fuel Restriction(s).

#008 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91]

The permittee shall only fire natural gas in Source ID P102 (Tank #222).

Operating Schedule Restriction(s).

#009 [25 Pa. Code §127.441]
Operating permit terms and conditions.

Source ID P102 shall exhaust to electrostatic precipitator ID C103 for no more than 504 hours in any 12 consecutive month period and there shall be a total of no more than 504 hours in any 3 consecutive month period of electrostatic precipitator "cross-connect" (bypass/maintenance) time for Sources ID P101, P102 and P103 combined, unless, the permittee is able to demonstrate, via stack testing, that:

(a) the emission of lead/lead compounds are not in excess of 1.30 pounds per hour, particulate matter and PM10 emissions are not in excess of 0.009 grains per dry standard cubic foot of exhaust, 4.6 pounds per hour and 23.1 tons in any 12 consecutive month period from electrostatic precipitator ID C103 while controlling the exhaust from both Sources ID

P101 and P103.

(b) the emission of lead/lead compounds are not in excess of 1.13 pounds per hour, particulate matter and PM10 emissions are not in excess of 0.01 grains per dry standard cubic foot of exhaust, 1.5 pounds per hour and 7.0 tons in any 12 consecutive month period from electrostatic precipitator ID C103 while controlling the exhaust from both Sources ID P102 and P103.

(c) the emission of lead/lead compounds are not in excess of 0.75 pounds per hour, particulate matter and PM10 emissions are not in excess of 0.005 grains per dry standard cubic foot of exhaust, 2.7 pounds per hour and 17.9 tons in any 12 consecutive month period from electrostatic precipitator ID C101 while controlling the exhaust from both Sources ID P103 and P101.

Throughput Restriction(s).

#010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not operate Source ID P102 at a fill rate in excess of the rate specified as the furnace's maximum fill rate in the application and supplemental materials submitted for plan approval 14-309-043 unless the permittee is able to demonstrate, via stack testing, that the air contaminant emissions are in compliance with all applicable emission limits at the higher fill rates.

II. TESTING REQUIREMENTS.

#011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) The permittee shall perform total particulate, PM10 and lead/lead compound stack testing on Source ID P102 at least twice between December 1, 2000 through December 31, 2003 while the furnace is being operated at maximum capacity and while it is ducted to the electrostatic precipitator normally used for the control of its air contaminant emissions. The first occurrence of stack testing shall occur no earlier than December 1, 2000 and no later than December 31, 2001. The second occurrence of stack testing shall occur no earlier than December 1, 2002 and no later than December 31, 2003.

(b) The permittee shall additionally perform fluoride stack testing at least twice during the same period on any furnace in which fluoride-bearing batch materials are used. These tests are also to be performed under the same conditions as specified above. In the event that fluoride-bearing batch materials are not used in the furnace during a specific testing period, fluoride stack testing is not required for that period. If the use of fluoride-bearing batch materials is resumed after a stack testing period has past, the permittee shall perform fluoride stack testing within 6 months after initial use of the fluoride-bearing batch materials.

(c) In addition to the stack testing discussed above, the permittee shall perform total particulate, PM10 and lead/lead compound stack testing for each of the electrostatic precipitator "cross-connect" scenarios at least once between December 1, 2001 and December 31, 2003.

#012 [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.

The permittee shall comply with all applicable testing requirements specified in 40 CFR Section 60.296.

III. MONITORING REQUIREMENTS.

#013 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall maintain and operate continuous carbon monoxide, nitrogen oxide and exhaust gas flow monitoring systems on the exhaust of Source ID P102 after associated control devices in accordance with all applicable requirements specified in 25 Pa. Code Chapter 139 and the Department's Continuous Source Monitoring Manual.

IV. RECORDKEEPING REQUIREMENTS.

#014 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

- (a) The permittee shall keep monthly records of supporting calculations used to verify compliance with the combined 12 consecutive month emissions limitations for fluoride, carbon monoxide, lead/lead compounds and nitrogen oxide emissions from Sources ID P101, P102 and P103.
- (b) The permittee shall keep records of supporting calculations used to verify compliance with the combined daily emissions limitations for nitrogen oxides and carbon monoxide emissions from Sources ID P101, P102 and P103.

These records shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

#015 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

- (a) The permittee shall keep records of the number of hours per month that Source ID P102 is exhausted to electrostatic precipitator ID C103 (cross-connect operations).
- (b) The permittee shall keep continuous records documenting the furnace fill rate for Source ID P102.
- (c) The permittee shall keep per batch records of the cullet ratio, fluoride-bearing batch material addition rates and lead/lead compound-bearing batch material addition rates for Source ID P102.
- (d) The permittee shall keep continuous records of the electrostatic precipitator secondary voltage and current for electrostatic precipitator (ID C102) of Source ID P102 (records shall contain a minimum of 75% valid data readings).
- (e) The permittee shall keep records of the calculations used to verify compliance with the sulfur oxide, particulate matter and PM10 emissions limitations for Source ID P102.
- (f) The permittee shall keep monthly records to verify compliance with

the 12 consecutive month particulate matter and PM10 emissions limitations for Source ID P102.

(g) The permittee shall keep records of stack test reports completed for Source ID P102.

These records shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

**#016 [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.**

The permittee shall comply with all applicable recordkeeping requirements specified in 40 CFR Part 60 Sections 60.290 through 60.296.

V. REPORTING REQUIREMENTS.

**#017 [25 Pa. Code §127.441]
Operating permit terms and conditions.**

Pursuant to 40 CFR 60.4 of the Standards of Performance, the submission of all requests, reports, applications, submittals and other communications required by 40 CFR Part 60 Subpart CC must be made to both the Department and the Environmental Protection Agency (EPA). The EPA copies may be sent to:

U.S. EPA Region III
1650 Arch Street
11th Floor
3WC22
Philadelphia, PA 19103-2029

**#018 [25 Pa. Code §127.441]
Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall annually report calculations verifying compliance with the combined 12 consecutive month emissions limitations for fluoride, carbon monoxide, lead/lead compounds and nitrogen oxide emissions from the source group Sources ID P101, P102 and P103.

Annual reports shall be submitted to the Department no later than March 1 for the preceding year.

#019 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall annually report calculations verifying compliance with the 12 consecutive month emissions limitations for particulate matter and PM10 emissions from Source ID P102.

Annual reports shall be submitted to the Department no later than March 1 for the preceding year.

#020 [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.

The permittee shall comply with all applicable reporting requirements specified in 40 CFR Part 60 Sections 60.290 through 60.296.

VI. WORK PRACTICE STANDARDS.

#021 [25 Pa. Code §127.441]
Operating permit terms and conditions.

If it becomes necessary to take the electrostatic precipitator (ID C102) associated with Source ID P102 off-line for maintenance purposes, Source ID P102 may continue to operate but its exhaust shall be directed to the electrostatic precipitator (ID C103) normally associated with Source ID P103 which shall be used to control the particulate matter, PM10 and lead/lead compounds emissions from both Sources ID P102 and P103 for the duration of the Source ID P102 electrostatic precipitator (ID C102) bypass/maintenance period.

#022 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91 and 40 CFR 52.21]

Source ID P102 (tank #222) shall be equipped with a gas/oxygen combustion system.

#023 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91 and 40 CFR Section 52.21]

Pursuant to the best available control technology (BACT) provisions and the Reasonably Available Control Technology (RACT) provisions, the permittee shall not use Source ID P102 to produce any type of glass other than that currently produced in each furnace unless Departmental approval is first obtained.

#024 [25 Pa. Code §127.441]
Operating permit terms and conditions.

There shall be no intentional addition of arsenic or arsenic-bearing batch materials to Source ID P102 (this condition specifically excludes any "tramp" amounts of arsenic that may be present in raw materials or cullet).

VII. ADDITIONAL REQUIREMENTS.

#025 [25 Pa. Code §127.441]
Operating permit terms and conditions.

Source ID P102 (tank #222) is a direct fired natural gas/oxygen fired glass melting furnace. Particulate matter, PM10 and lead/lead compound emissions from Source ID P102 shall be controlled by the electrostatic precipitator ID C102.

#026 [25 Pa. Code §127.441]
Operating permit terms and conditions.

Source ID P102 is subject to Subpart CC of the Federal Standards of Performance for New Stationary Sources, 40 CFR 60.290-60.296. The permittee shall comply with all applicable requirements of this Subpart.

***** PERMIT SHIELD IN EFFECT. *****

Source ID: P103

Source Name: GLASS MELT TANK NO. 223

SOURCE CAPACITY:

COLOR TV PANELS
Natural Gas

FML	Proc	CD	EP
FM01	-->P103	-->C103	-->S03
		CD	EP
		-->C101	-->S01

I. RESTRICTIONS.

Emission Limitation(s).

#001 [25 Pa. Code §123.21]

General

No person may permit the emission from the exhaust of Source ID P103 into the outdoor atmosphere in a manner that the concentration of sulfur oxides (SOx), expressed as SO₂, in the effluent gas is in excess of 500 parts per million, by volume, dry basis.

#002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91]

The combined nitrogen oxides emissions (NO_x, expressed as NO₂) from Sources ID P101, P102 and P103 shall not exceed 11.2 tons per day and 2042 tons in any 12 consecutive month period.

#003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 40 CFR Section 52.21]

(a) Pursuant to the best available control technology (BACT) provisions, the combined emissions of lead/lead compounds from Sources ID P101, P102 and P103 shall not exceed 6.0 tons in any 3 consecutive month period and 20.2 tons in any 12 consecutive month period.

(b) Pursuant to the best available control technology (BACT) provisions, the combined emissions of carbon monoxide from Sources ID P101, P102 and P103 shall not exceed 12 tons per day and 1835 tons in any 12 consecutive month period.

#004 [25 Pa. Code §127.441]
Operating permit terms and conditions.

The combined emissions of fluoride from Sources ID P101, P102 and P103 shall not exceed 11.4 tons in any 12 consecutive month period.

#005 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 40 CFR Section 52.21]

[Compliance with the requirement specified in this streamlined permit condition assures compliance with the provision in 25 Pa. Code Section 123.13]

(a) Pursuant to the best available control technology (BACT) provisions, neither particulate matter nor PM10 shall be emitted from the exhaust of electrostatic precipitator ID C103 associated with Source ID P103 in excess of 0.005 grains per dry standard cubic foot, 2.7 pounds per hour and 17.9 tons in any 12 consecutive month period, except as may be allowed pursuant to condition #6 of Source ID P103.

(b) Pursuant to the best available control technology (BACT) provisions, the lead/lead compound emissions from the exhaust of electrostatic precipitator ID C103 associated with Source ID P103 shall not exceed 0.75 pounds per hour, except as may be allowed pursuant to condition #6 of Source ID P103.

#006 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Compliance with the requirement specified in this streamlined permit condition assures compliance with the provision in 25 Pa. Code Section 123.13]

If it becomes necessary to take the electrostatic precipitator ID C103 associated with Source ID P103 off-line for maintenance purposes, Source

ID P103 may continue to operate but its exhaust shall be directed to the electrostatic precipitator (ID C101) normally associated with Source ID P101 which will then be the emissions from both Source ID P103 and P101, the particulate matter emissions from the exhaust of electrostatic precipitator ID C101 associated with Source ID P103 and P101 shall not exceed 0.02 grains per dry standard cubic foot and 21 pounds per hour, the PM10 emissions shall not exceed 0.02 grains per dry standard cubic foot and 21 pounds per hour and the lead/lead compounds emissions shall not exceed 9.5 pounds per hour.

#007 [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.

The permittee shall comply with all applicable requirements specified in 40 CFR Part 60, Section 60.292, Standards for Particulate Matter, for Source ID P103.

Fuel Restriction(s).

#008 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa Code Sections 129.91 and 127.1]

The permittee shall only fire natural gas in Source ID P103 (Tank #223).

Operating Schedule Restriction(s).

#009 [25 Pa. Code §127.441]
Operating permit terms and conditions.

Source ID P103 shall exhaust to electrostatic precipitator ID C101 for no more than 504 hours in any 12 consecutive month period and there shall be a total of no more than 504 hours in any 3 consecutive month period of electrostatic precipitator "cross-connect" (bypass/maintenance) time for Sources ID P101, P102 and P103 combined, unless, the permittee is able to demonstrate, via stack testing, that:

(a) the emission of lead/lead compounds are not in excess of 1.30 pounds per hour, particulate matter and PM10 emissions are not in excess of 0.009 grains per dry standard cubic foot of exhaust, 4.6 pounds per hour and 23.1 tons in any 12 consecutive month period from electrostatic

precipitator ID C103 while controlling the exhaust from both Sources ID P101 and P103.

(b) the emission of lead/lead compounds are not in excess of 1.13 pounds per hour, particulate matter and PM10 emissions are not in excess of 0.01 grains per dry standard cubic foot of exhaust, 1.5 pounds per hour and 7.0 tons in any 12 consecutive month period from electrostatic precipitator ID C103 while controlling the exhaust from both Sources ID P102 and P103.

(c) the emission of lead/lead compounds are not in excess of 0.75 pounds per hour, particulate matter and PM10 emissions are not in excess of 0.005 grains per dry standard cubic foot of exhaust, 2.7 pounds per hour and 17.9 tons in any 12 consecutive month period from electrostatic precipitator ID C101 while controlling the exhaust from both Sources ID P103 and P101.

Throughput Restriction(s).

#010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not operate Source ID P103 at a fill rate in excess of the rate specified as the furnace's maximum fill rate in the application and supplemental materials submitted for plan approval 14-309-043 unless the permittee is able to demonstrate, via stack testing, that the air contaminant emissions are in compliance with all applicable emission limits at the higher fill rates.

II. TESTING REQUIREMENTS.

#011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) The permittee shall perform total particulate, PM10 and lead/lead compound stack testing on Source ID P103 at least twice between December 1, 2000 through December 31, 2003 while the furnace is being operated at maximum capacity and while it is ducted to the electrostatic precipitator normally used for the control of its air contaminant emissions. The first occurrence of stack testing shall occur no earlier than December 1, 2000 and no later than December 31, 2001. The second occurrence of stack testing shall occur no earlier than December 1, 2002 and no later than

December 31, 2003.

(b) The permittee shall additionally perform fluoride stack testing at least twice during the same period on any furnace in which fluoride-bearing batch materials are used. These tests are also to be performed under the same conditions as specified above. In the event that fluoride-bearing batch materials are not used in the furnace during a specific testing period, fluoride stack testing is not required for that period. If the use of fluoride-bearing batch materials is resumed after a stack testing period has past, the permittee shall perform fluoride stack testing within 6 months after initial use of the fluoride-bearing batch materials.

(c) In addition to the stack testing discussed above, the permittee shall perform total particulate, PM10 and lead/lead compound stack testing for each of the electrostatic precipitator "cross-connect" scenarios at least once between December 1, 2001 and December 31, 2003.

#012 [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.

The permittee shall comply with all applicable testing requirements specified in 40 CFR Section 60.296.

III. MONITORING REQUIREMENTS.

#013 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall maintain and operate continuous carbon monoxide, nitrogen oxide and exhaust gas flow monitoring systems on the exhaust of Source ID P103 after associated control devices in accordance with all applicable requirements specified in 25 Pa. Code Chapter 139 and the Department's Continuous Source Monitoring Manual.

IV. RECORDKEEPING REQUIREMENTS.

#014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) The permittee shall keep monthly records of supporting calculations used to verify compliance with the combined 12 consecutive month emissions limitations for fluoride, carbon monoxide, lead/lead compounds and nitrogen oxide emissions from Sources ID P101, P102 and P103.

(b) The permittee shall keep records of supporting calculations used to verify compliance with the combined daily emissions limitations for nitrogen oxides and carbon monoxide emissions from Sources ID P101, P102 and P103.

These records shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

#015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) The permittee shall keep records of the number of hours per month that Source ID P103 (tank #223) is exhausted to electrostatic precipitator ID C101 (cross-connect operation).

(b) The permittee shall keep continuous records documenting the furnace fill rate for Source ID P103.

(c) The permittee shall keep per batch records of the cullet ratio, fluoride-bearing batch material addition rates and lead/lead compound-bearing batch material addition rates for Source ID P103.

(d) The permittee shall keep continuous records of the electrostatic precipitator secondary voltage and current for electrostatic precipitator (ID C103) of Source ID P103 (records shall contain a minimum of 75% valid data readings).

(e) The permittee shall keep records of the calculations used to verify compliance with the sulfur oxide, particulate matter and PM10 emissions limitations for Source ID P103.

(f) The permittee shall keep monthly records to verify compliance with the 12 consecutive month particulate matter and PM10 emissions limitations for Source ID P103.

(g) The permittee shall keep records of stack test reports completed for Source ID P103.

These records shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

**#016 [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.**

The permittee shall comply with all applicable recordkeeping requirements specified in 40 CFR Part 60 Sections 60.290 through 60.296.

V. REPORTING REQUIREMENTS.

**#017 [25 Pa. Code §127.441]
Operating permit terms and conditions.**

Pursuant to 40 CFR 60.4 of the Standards of Performance, the submission of all requests, reports, applications, submittals and other communications required by 40 CFR Part 60 Subpart CC must be made to both the Department and the Environmental Protection Agency (EPA). The EPA copies may be sent to:

U.S. EPA Region III
1650 Arch Street
11th Floor
3WC22
Philadelphia, PA 19103-2029

**#018 [25 Pa. Code §127.441]
Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall annually report calculations verifying compliance with the combined 12 consecutive month emissions limitations for fluoride, carbon monoxide, lead/lead compounds and nitrogen oxide

emissions from the source group Sources ID P101, P102 and P103.

Annual reports shall be submitted to the Department no later than March 1 for the preceding year.

#019 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall annually report calculations verifying compliance with the 12 consecutive month emissions limitations for particulate matter and PM10 emissions from Source ID P103.

Annual reports shall be submitted to the Department no later than March 1 for the preceding year.

#020 [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.

The permittee shall comply with all applicable reporting requirements specified in 40 CFR Part 60 Sections 60.290 through 60.296.

VI. WORK PRACTICE STANDARDS.

#021 [25 Pa. Code §127.441]
Operating permit terms and conditions.

If it becomes necessary to take the electrostatic precipitator (ID C103) associated with Source ID P103 off-line for maintenance purposes, Source ID P103 may continue to operate but its exhaust shall be directed to the electrostatic precipitator (ID C101) normally associated with Source ID P101 which shall be used to control the particulate matter, PM10 and lead/lead compounds emissions from both Source ID P103 and P101 for the duration of the Source ID P103 electrostatic precipitator (ID C103) bypass/maintenance period.

#022 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.91 and 40 CFR Section 52.21]

Pursuant to the best available control technology (BACT) provisions and the Reasonably Available Control Technology (RACT) provisions, the permittee shall not use Source ID P103 to produce any type of glass other than that currently produced in the furnace unless Departmental approval is first obtained.

#023 [25 Pa. Code §127.441]
Operating permit terms and conditions.

There shall be no intentional addition of arsenic or arsenic-bearing batch materials to Source ID P103 (this condition specifically excludes any "tramp" amounts of arsenic that may be present in raw materials or cullet).

#024 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 40 CFR Section 52.21]

Source ID P103 (Tank #223) shall be equipped with a gas/oxygen combustion system.

VII. ADDITIONAL REQUIREMENTS.

#025 [25 Pa. Code §127.441]
Operating permit terms and conditions.

Source ID P103 (tank #223) is a direct fired natural gas/oxygen fired glass melting furnace. Particulate matter, PM10 and lead/lead compound emissions from Source ID P103 shall be controlled by the electrostatic precipitator ID C103.

#026 [25 Pa. Code §127.441]
Operating permit terms and conditions.

Source ID P103 is subject to Subpart CC of the Federal Standards of Performance for New Stationary Sources, 40 CFR 60.290-60.296. The permittee shall comply with all applicable requirements of this Subpart.

***** PERMIT SHIELD IN EFFECT. *****

Source ID: P104
Source Name: NG EMERGENCY GENERATOR

SOURCE CAPACITY:

NATURAL GAS

FML Proc EP
FM01 -->P104 -->S116

I. RESTRICTIONS.

Emission Limitation(s).

#001 [25 Pa. Code §123.13]
Processes

No person may permit the emission from the exhaust of Source ID P104 into the outdoor atmosphere of particulate matter in excess of 0.04 grains per dry standard cubic foot.

#002 [25 Pa. Code §123.21]
General

No person may permit the emission from the exhaust of Source ID P104 into the outdoor atmosphere in a manner that the concentration of sulfur oxides (SOx), expressed as SO₂, in the effluent gas is in excess of 500 parts per million, by volume, dry basis.

#003 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.1]

The emission of nitrogen oxides (NOx, expressed as NO₂) from Source ID P104 shall not exceed 2.4 pounds per hour and 0.6 tons in any 12 consecutive month period.

#004 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.1]

The combined emission of nitrogen oxides (NO_x, expressed as NO₂) from Sources ID P104, P105 and P106 shall not exceed 5.2 tons in any 12 consecutive month period.

Fuel Restriction(s).

#005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only fire natural gas in Source ID P104.

Operating Schedule Restriction(s).

#006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.1]

The permittee shall limit the amount of time that Source ID P104 is operated to less than 500 hours in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

#007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall keep records of the following for Source P104:

- (1) The number of hours operated per month.

(2) The calculations used to verify compliance with the nitrogen oxide (NOx, expressed as NO2) emission limitations on a monthly basis.

(3) The calculations used to verify compliance with the SO2 and particulate matter emissions limitations.

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

#008 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall keep monthly records of the calculations verifying compliance with the nitrogen oxide (NOx, expressed as NO2) emission limitation for the source group containing Sources P104, P105 and P106.

These records shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

#009 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall report annually the calculations verifying compliance with the nitrogen oxide (NOx, expressed as NO2) emission limitations for Source ID P104.

The annual report shall be submitted to the Department no later than March 1 for the preceding year.

#010 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall report annually the calculations used to verify

compliance with the nitrogen oxide (NOx, expressed as NO2) emission limitation for the source group containing Sources P104, P105 and P106.

The annual report shall be submitted to the Department no later than March 1 for the preceding year.

VI. WORK PRACTICE STANDARDS.

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

VII. ADDITIONAL REQUIREMENTS.

#011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P104 is a natural gas fired 0.9 MMBtu/hr emergency generator.

***** PERMIT SHIELD IN EFFECT. *****

Source ID: P105

Source Name: FORMING & HOTEND FINISHING EQUIPMNT

SOURCE CAPACITY:

Natural Gas

FML Proc EP
FM01 -->P105 -->Z01

I. RESTRICTIONS.

Emission Limitation(s).

#001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.1]

The combined emission of nitrogen oxides (NOx, expressed as NO2) from Sources ID P104, P105 and P106 shall not exceed 5.2 tons in any 12 consecutive month period.

Fuel Restriction(s).

#002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only fire natural gas in each source of Source ID P105.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

#003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall keep monthly records of the calculations verifying compliance with the nitrogen oxide (NO_x, expressed as NO₂) emission limitation for the source group containing Sources P104, P105 and P106.

These records shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

#004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall report annually the calculations used to verify compliance with the nitrogen oxide (NO_x, expressed as NO₂) emission limitation for the source group containing Sources P104, P105 and P106.

The annual report shall be submitted to the Department no later than March 1 for the preceding year.

VI. WORK PRACTICE STANDARDS.

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

VII. ADDITIONAL REQUIREMENTS.

#005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P105 consists of all hot end forming and finishing equipment, belt burners, button seal machines and associated equipment as are identified in the application and supplemental materials submitted for Plan Approval 14-309-043 and the draft Title V permittee comments. The sources all fire natural gas and have a combined capacity of less than 5

MMBtu/hr. The sources include:

- (i) 6 funnel driers
- (ii) 3 mold ovens
- (iii) 13 crack-offs
- (iv) 6 belt warmers
- (v) 2 kiln ovens
- (vi) 12 soot burners
- (vii) 28 neck sealers
- (viii) 6 button sealers
- (ix) 4 shell burners

***** PERMIT SHIELD IN EFFECT. *****

Source ID: P106
Source Name: 2 ANNEALING LEHRS

SOURCE CAPACITY:

Natural Gas

FML Proc EP
FM01 -->P106 -->S034

I. RESTRICTIONS.

Emission Limitation(s).

#001 [25 Pa. Code §123.13]
Processes

No person may permit the emission from each exhaust of Source ID P106 into the outdoor atmosphere of particulate matter in excess of 0.04 grains per dry standard cubic foot.

#002 [25 Pa. Code §123.21]
General

No person may permit the emission from each exhaust of Source ID P106 into the outdoor atmosphere in a manner that the concentration of sulfur oxides (SOx, expressed as SO2) in the effluent gas is in excess of 500 parts per million, by volume, dry basis.

#003 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.1]

The emission of Nitrogen oxides (NOx, expressed as NO2) from each lehr of Source ID P106 shall not exceed 0.5 pounds per hour and 2.2 tons in any 12 consecutive month period.

#004 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.1]

The combined emission of nitrogen oxides (NO_x, expressed as NO₂) from Sources ID P104, P105 and P106 shall not exceed 5.2 tons in any 12 consecutive month period.

Fuel Restriction(s).

#005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only fire natural gas in the lehrs of Source ID P106.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

#006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall keep monthly records of the calculations verifying compliance with the nitrogen oxide (NO_x, expressed as NO₂) emission limitations for each source of Source ID P106.

These records shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

#007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall keep monthly records of the calculations verifying compliance with the nitrogen oxide (NO_x, expressed as NO₂) emission

limitation for the source group containing Sources P104, P105 and P106.

These records shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

#008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall report annually the calculations verifying compliance with the nitrogen oxide (NO_x, expressed as NO₂) emission limitations for each source of Source ID P106.

The annual report shall be submitted to the Department no later than March 1 for the preceding year.

#009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall report annually the calculations used to verify compliance with the nitrogen oxide (NO_x, expressed as NO₂) emission limitation for the source group containing Sources P104, P105 and P106.

The annual report shall be submitted to the Department no later than March 1 for the preceding year.

VI. WORK PRACTICE STANDARDS.

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

VII. ADDITIONAL REQUIREMENTS.

SECTION D.
Source Level Requirements

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#010 [25 Pa. Code §127.441]
Operating permit terms and conditions.

Sources ID P106, 2 Annealing Lehrs, are annealing ovens. The lehrs are continuous belt tunnel ovens each fired on natural gas with an input capacity of 5.0 MMBtu/hr.

***** PERMIT SHIELD IN EFFECT. *****

Source ID: P107

Source Name: 6 ANNEALING LEHRS (RACT)

SOURCE CAPACITY:

Natural Gas

FML Proc EP
FM01 -->P107 -->S034

I. RESTRICTIONS.

Emission Limitation(s).

#001 [25 Pa. Code §123.13]

Processes

No person may permit the emission from each exhaust of Source ID P107 into the outdoor atmosphere of particulate matter in excess of 0.04 grains per dry standard cubic foot.

#002 [25 Pa. Code §123.21]

General

No person may permit the emission from each exhaust of Source ID P107 into the outdoor atmosphere in a manner that the concentration of sulfur oxides (SOx, expressed as SO2) in the effluent gas is in excess of 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

#003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only fire natural gas in the lehrrs of Source ID P107.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE STANDARDS.

#004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.93]

Each source of Source ID P107 shall be maintained and operated in accordance with the manufacturers specifications and good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

#005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P107 is 6 Annealing Lehrs, which are annealing ovens, one for each of the glass forming lines with 2 dedicated for each glass melting tank. The lehrs are continuous belt tunnel ovens fired on natural gas with an input capacities of:

Lehr No.32 - 4.3 MMBtu/hr

Lehr No.33 - 4.3 MMBtu/hr

Lehr No.12 - 5.5 MMBtu/hr

Lehr No.13 - 5.5 MMBtu/hr

Lehr No.21 - 7.8 MMBtu/hr

Lehr No.23 - 7.8 MMBtu/hr

***** PERMIT SHIELD IN EFFECT. *****

Source ID: P108

Source Name: 3 CAUSTIC STRIPPING TANKS

SOURCE CAPACITY:

Proc	CD	EP
P108	-->C108	-->S108

I. RESTRICTIONS.

Emission Limitation(s).

#001 [25 Pa. Code §123.13]

Processes

No person may permit the emission from the exhaust of ID C108 associated with Source ID P108 into the outdoor atmosphere of particulate matter in excess of 0.04 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 (relating to Title V General Requirements).

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

#002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall keep records of the calculations used to verify compliance with the particulate matter emission limitation for Source ID P108.

These records shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE STANDARDS.

#003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The air contaminant emissions from the caustic stripping tanks of Source ID P108 shall be controlled by a Duall F102-064 packed bed scrubber (ID C108).

VII. ADDITIONAL REQUIREMENTS.

#004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P108 consists of 3 caustic stripping tanks (tank 2/3/4, tank 13/14 and tank 15/16) and all associated activities. The tanks contain a caustic soda solution which is used to strip away old chromium plating from molds, shells and plungers before they are re-chromed at source ID P122. All three tanks are vented to one packed bed scrubber (ID C108).

***** PERMIT SHIELD IN EFFECT. *****

Source ID: P111

Source Name: SILOS, BINS, HOPPERS, ETC

SOURCE CAPACITY:

Proc	CD	EP
P111	-->C111	-->S111

I. RESTRICTIONS.

Emission Limitation(s).

#001 [25 Pa. Code §123.13]
Processes

No person may permit the emission from the exhaust of each source of Source ID P111 into the outdoor atmosphere of particulate matter in excess of 0.04 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 (relating to Title V General Requirements).

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

#002 [25 Pa. Code §127.441]
Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall keep records of the calculations used to verify compliance with the particulate matter emission limitation for each source of Source ID P111.

These records shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE STANDARDS.

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

VII. ADDITIONAL REQUIREMENTS.

#003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P111 consists of bulk material handling, storage and mixing operations. The air contaminant emissions from each source of Source ID P111 shall be controlled by its associated dust collector. A list of the 58 dust collectors at the facility including model number and description is attached to the permit.

***** PERMIT SHIELD IN EFFECT. *****

Source ID: P113
Source Name: DEGREASER

SOURCE CAPACITY:

Proc EP
P113 -->Z01

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE STANDARDS.

*#001 [25 Pa. Code §129.63]
Degreasing operations*

Source ID P113 has a degreaser open surface area which is greater than 10 square feet and shall:

(1) Be equipped with:

(i) A cover to prevent evaporation of solvent during periods of non-use.

(ii) Equipment for draining cleaned parts.

(iii) A permanent, conspicuous label summarizing the operating requirements.

(2) Be operated in accordance with the following requirements:

(i) Do not dispose of waste solvent or transfer it to another party, such that greater than 20% for the waste solvent (by weight) can evaporate into the atmosphere; store waste solvent only in covered containers.

(ii) Close degreaser cover whenever not handling parts in the cleaner.

(iii) Drain cleaned parts for at least 15 seconds or until dripping ceases.

VII. ADDITIONAL REQUIREMENTS.

#002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P113, a cold-cleaning degreaser, has an open surface area of 15 square feet, uses mineral spirits or a citrus-based cleaner as solvent and is located in the feeder room.

***** PERMIT SHIELD IN EFFECT. *****

Source ID: P116

Source Name: 2 FIRE PUMP ENGINES

SOURCE CAPACITY:

#2 oil

FML Proc EP
FM03 -->P116 -->S116

I. RESTRICTIONS.

Emission Limitation(s).

#001 [25 Pa. Code §123.13]

Processes

No person may permit the emission from the exhaust of each engine of Source ID P116 into the outdoor atmosphere of particulate matter in excess of 0.04 grains per dry standard cubic foot.

#002 [25 Pa. Code §123.21]

General

No person may permit the emission from the exhaust of each engine of Source ID P116 into the outdoor atmosphere in a manner that the concentration of sulfur oxides (SOx, expressed as SO2) in the effluent gas is in excess of 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

#003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only fire #2 or lighter fuel oil in each engine of Source ID P116.

Operating Schedule Restriction(s).

#004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.93]

The permittee shall limit the operation of each engine of Source ID P116 to less than 500 hours in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

#005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall keep monthly records of the hours of operation of each engine of Source ID P116.

These records shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

#006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall report annually the number of hours of operation for each engine of Source ID P116.

Annual reports shall be submitted to the Department by no later than March 1 for the previous year.

VI. WORK PRACTICE STANDARDS.

#007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.93]

The permittee shall maintain and operate each engine of Source ID P116 in accordance with the manufacturers specifications and good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

#008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The 2 emergency fire pump engines are both diesel fired Cummings engines rated at 290 Hp each located in separate fire water pump houses.

***** PERMIT SHIELD IN EFFECT. *****

Source ID: P122
Source Name: 3 CHROME PLATING TANKS

SOURCE CAPACITY:

Proc CD EP
P122 -->C122 -->S122

I. RESTRICTIONS.

Emission Limitation(s).

#001 [25 Pa. Code §123.13]
Processes

No person may permit the emission from the exhaust of ID C122 associated with Source ID P122 into the outdoor atmosphere of particulate matter in excess of 0.04 grains per dry standard cubic foot.

#002 [25 Pa. Code §127.441]
Operating permit terms and conditions.

The hard chromium electroplating tanks of Source ID P122 shall be restricted to a maximum cumulative potential rectifier capacity of less than 60 million amp-hours/year.

#003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.342]
Subpart N National Emission Standards for Chromium Emissions from Hard and Decorative Elec Standards.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 122.3]

The permittee shall comply with all requirements specified in 40 CFR Part 63, Subpart N, Sections 63.340 - 63.347 within 2 years after January 25, 1995.

#004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.342]
Subpart N National Emission Standards for Chromium Emissions from Hard and Decorative Elec Standards.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 122.3]

(a) The permittee shall comply with all applicable emission limitations set forth in 40 CFR Section 63.342.

(b) In accordance with 40 CFR Section 63.342(c)(1)(ii), the permittee may not cause to be discharged into the atmosphere from Source ID P122 any gases that contain emissions in excess of the limit specified below for existing, hard chromium electroplating tanks located at small, hard chromium electroplating facilities:

POLLUTANT	EMISSION LIMITS
Chromium Compounds	0.03 mg/dscm (1.3 x 10 ⁻⁵ gr/dscf)

#005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.342]
Subpart N National Emission Standards for Chromium Emissions from Hard and Decorative Elec Standards.

The terms and conditions in this permit relating to 40 CFR Part 63, Subpart N are nonexpiring and shall continue in full force and effect until modified by the Department.

Control Device Efficiency Restriction(s).

#006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.342]
Subpart N National Emission Standards for Chromium Emissions from Hard and Decorative Elec Standards.

The established range of compliant values for composite mesh pad (ID C122) system pressure drop shall be 3.2 to 7.8 inches of water. This range is set in accordance with 40 CFR Part 60 Section 63.342, Subpart N. Any deviation outside this range shall be handled in accordance with 40 CFR Section 63.342.

II. TESTING REQUIREMENTS.

#007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.344]
Subpart N National Emission Standards for Chromium Emissions from Hard and Decorative Elec Performance test requirements and test methods.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 122.3]

In accordance with 40 CFR Section 63.344, the permittee shall comply with all the applicable performance test requirements and test methods set

forth in 40 CFR Section 63.7 in addition to 40 CFR Section 63.344.

III. MONITORING REQUIREMENTS.

#008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The Duall HMF-064 composite mesh pad system (ID C122) shall be equipped with permanent instrumentation (a differential manometer or equivalent) which meets the specifications contained in 40 CFR Part 63 to monitor pressure drop across the composite mesh pad system.

(b) The pressure drop across the composite mesh pad system (ID C122) shall be monitored daily.

#009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee once per quarter shall:

(1) Visually inspect the mesh pad system to ensure there is proper drainage, no chromic acid buildup on the pads and no evidence of chemical attack on the structural integrity of the device.

(2) Visually inspect the back portion of the mesh pad closest to the fan to ensure there is no breakthrough of chromic acid mist.

(3) Visually inspect the ductwork from the tanks to the mesh pad system to ensure there are no leaks.

#010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.343]

Subpart N National Emission Standards for Chromium Emissions from Hard and Decorative Elec Compliance provisions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 122.3]

In accordance with 40 CFR Section 63.343(c), the permittee shall conduct monitoring to comply with the emission limitation and according to the type of air pollution control technique that is used.

IV. RECORDKEEPING REQUIREMENTS.

#011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

- (a) The differential pressure across the composite mesh pad system (ID C122) shall be recorded daily.
- (b) The permittee shall keep records of the quarterly visual monitoring results required for the composite mesh pad system (ID C122).
- (c) The permittee shall keep records of the calculations used to verify compliance with the particulate matter and chromium compound emissions limitations for Source ID P122.
- (d) The permittee shall keep records to verify compliance with the cumulative potential rectifier capacity limitation for Source ID P122.

These records shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

#012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.346]

Subpart N National Emission Standards for Chromium Emissions from Hard and Decorative Elec Recordkeeping requirements.

[Additional authority for this permit condition is derived from 40 CFR Section 63.346 and 25 Pa. Code Section 122.3]

The permittee shall fulfill all recordkeeping requirements outlined in 40 CFR Section 63.346 and in the General Provisions to 40 CFR Part 63, according to the applicability of subpart A of this part as identified in Table 1 of subpart N.

V. REPORTING REQUIREMENTS.

#013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.347]

Subpart N National Emission Standards for Chromium Emissions from Hard and Decorative Elec Reporting requirements.

[Additional authority for this permit condition is derived from 40 CFR Section 63.347 and 25 Pa. Code Section 122.3]

The permittee shall comply with all applicable reporting requirements of 40 CFR Part 63 Section 63.347.

#014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.347]
Subpart N National Emission Standards for Chromium Emissions from Hard and Decorative Elec Reporting requirements.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 122.3]

Source ID P122 is subject to 40 CFR Part 63, Subpart N, National Emissions Standards for Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks. The permittee shall comply with all applicable requirements of 40 CFR Section 63, which requires submissions of copies of all requests, applications, submittals, and other communication to both EPA and the Department. The EPA copies shall be forwarded to:

Director
Air Protection Division (3AP00)
U.S. EPA, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

VI. WORK PRACTICE STANDARDS.

#015 [25 Pa. Code §127.441]
Operating permit terms and conditions.

The air contaminant emissions from Source ID P122 shall be controlled by a Duall HMF-064 composite mesh pad (CMP) system (ID C122).

#016 [25 Pa. Code §127.441]
Operating permit terms and conditions.

The permittee shall perform wash down of the composite mesh pads (ID C122) in accordance with the manufacturers recommendations.

VII. ADDITIONAL REQUIREMENTS.

#017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P122 consists of 3 hard chrome electroplating tanks and all associated electroplating activities. The three tanks have a combined installed rectifier capacity of 55 million amp-hours. This process is used to maintain the chromium coated molds, shells and plungers which are used to form the molten glass. The air contaminant emissions from the tanks of Source ID P122 shall be controlled by a Duall HMF-064 composite mesh pad (CMP) system (ID C122).

#018 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.342]

Subpart N National Emission Standards for Chromium Emissions from Hard and Decorative Elec Standards.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 122.3]

The permittee shall comply with all applicable requirements in 40 CFR Part 63 Sections 63.340 through 63.347, Subpart N (relating to existing, hard chromium electroplating tanks located at small, hard chromium electroplating facilities). The applicable requirements include definitions, emission limitations, operational practices, operator training and certification, compliance and performance testing, monitoring, recordkeeping and reporting requirements, and compliance schedules.

***** PERMIT SHIELD IN EFFECT. *****

No Alternative Operations exist for this Title V Facility

No Emission Trading Groups exist for this Title V Facility.

SECTION C.
Emission Restriction Summary

10/30/00 PAGE: 100
14-00001

DEP ID	Source Description	Emission Limit	Pollutant
031	2 BOILERS	.400 Lbs/MMBTU	P000
		4.000 Lbs/MMBTU	SOX
032	2.5 MMBTU/HR BO	4.000 Lbs/MMBTU	SOX
P101	GLASS MELT TANK	12.000 Tons/Day P101,P102,P103	CO
		1,835.000 Tons/Yr P101,P102,P103	CO
		6.000 Tons/QTRLY P101,P102,P103	LEAD
		9.500 Lbs/Hr "cross-connect"	LEAD
		1.300 Lbs/Hr ID C01	LEAD
		20.200 Tons/Yr P101,P102,P103	LEAD
		11.200 Tons/Day P101,P102,P103	NOX
		2,042.000 Tons/Yr P101,P102,P103	NOX
		.020 gr/DRY FT3 "cross-connect"	P000
		21.000 Lbs/Hr "cross-connect"	P000
		.009 gr/DRY FT3 ID C01	P000
		23.100 Tons/Yr ID C01	P000
		4.600 Lbs/Hr ID C01	P000
		500.000 PPMV	SOX
P102	GLASS MELT TANK	12.000 Tons/Day P101,P102,P103	CO
		1,835.000 Tons/Yr P101,P102,P103	CO
		6.000 Tons/QTRLY P101,P102,P103	LEAD
		20.200 Tons/Yr P101,P102,P103	LEAD
		11.500 Lbs/Hr "cross-connect"	LEAD
		1.130 Lbs/Hr ID C02	LEAD
		11.200 Tons/Day P101,P102,P103	NOX
		2,042.000 Tons/Yr P101,P102,P103	NOX
		.010 gr/DRY FT3 ID C02	P000
		7.000 Tons/Yr ID C02	P000
		.020 gr/DRY FT3 "cross-connect"	P000
		1.500 Lbs/Hr ID C02	P000
		13.500 Lbs/Hr "cross-connect"	P000
		500.000 PPMV	SOX
P103	GLASS MELT TANK	12.000 Tons/Day P101,P102,P103	CO
		1,835.000 Tons/Yr P101,P102,P103	CO
		6.000 Tons/QTRLY P101,P102,P103	LEAD
		9.500 Lbs/Hr "cross-connect"	LEAD
		20.200 Tons/Yr P101,P102,P103	LEAD
		.750 Lbs/Hr ID C03	LEAD
		11.200 Tons/Day P101,P102,P103	NOX
		2,042.000 Tons/Yr P101,P102,P103	NOX
		.005 gr/DRY FT3 ID C03	P000
		2.700 Lbs/Hr ID C03	P000

SECTION G.
Emission Restriction Summary

10/30/00 PAGE: 101
14-00001

DEP ID	Source Description	Emission Limit	Pollutant
DEP ID	Source Description	Emission Limit	Pollutant
		.020 gr/DRY FT3 "cross-connect"	P000
		21.000 Lbs/Hr "cross-connect"	P000
		17.900 Tons/Yr ID C03	P000
		500.000 PPMV	SOX
P104	NG EMERGENCY GE	2.400 Lbs/Hr	NOX
		.600 Tons/Yr 12 consecutive months	NOX
		5.200 Tons/Yr P104,P105,P106	NOX
		.040 gr/DRY FT3	P000
		500.000 PPMV	SOX
P105	FORMING & HOTEN	5.200 Tons/Yr P104,P105,P106	NOX
P106	2 ANNEALING LEH	.500 Lbs/Hr	NOX
		5.200 Tons/Yr P104,P105,P106	NOX
		2.200 Tons/Yr 12 consecutive month	NOX
		.040 gr/DRY FT3	P000
		500.000 PPMV	SOX
P107	6 ANNEALING LEH	.040 gr/DRY FT3	P000
		500.000 PPMV	SOX
P108	3 CAUSTIC STRIP	.040 gr/DRY FT3	P000
P111	SILOS, BINS, HO	.040 gr/DRY FT3	P000
P116	2 FIRE PUMP ENG	.040 gr/DRY FT3	P000
		500.000 PPMV	SOX
P122	3 CHROME PLATIN	.040 gr/DRY FT3	P000
		.030 MG/DSCM	T076

The following air contaminant sources are considered to be of minor significance to the Department and have been determined to be exempt from permit requirements. However, this determination does not exempt the sources from compliance with all applicable air quality regulations specified in 25 Pa. Code Chapters 121-143:

(a) 5 portable mineral spirit Degreaser tanks used for maintenance purposes, each having an open surface area of 6 square feet.

(b) One portable backup diesel fired air compressor rated at 435 Hp manufactured by Ingersoll-Rand.

(c) 5 storage tanks <2000 gallons used at the facility consisting of: two 400 gallon diesel tanks for pump house generators, one 500 gallon deisel tank for fork trucks, one 500 gallon kerosene tank for space heaters and one 500 gallon gasoline tank for vehicles.

TABLE 2-2
CAV FACILITY WIDE DUST COLLECTORS

EQUIPMENT NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	FLOWRATE SCF/MIN	GRAIN LOADING GR/SCF
DC001	OLD B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC002	OLD B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC003	OLD B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC004	OLD B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC005/6	OLD B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC007/8	OLD B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC009/10	OLD B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC011	OLD B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC012	OLD B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC013/14	OLD B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC017	OLD B.H. SILOS	DCE	DLMV45/15F11	3300	0.0044
DC018/19	OLD B.H. SILOS	DCE	DLMV45/15F11	3300	0.0044
DC020	OLD B.H. SILOS	DCE	DLMV15/15K3	1100	0.0044
DC021	OLD B.H. SILOS	DCE	DLMV15/15K3	1100	0.0044
DC101	NEW B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC102	NEW B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC103	NEW B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC104	NEW B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC105	NEW B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC106	NEW B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC107	NEW B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC108	NEW B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC109	NEW B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC110	NEW B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC111	NEW B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC112	NEW B.H. SILOS	DCE	DLMV15/15F5	1100	0.0044
DC113/114	NEW B.H. SILOS	DCE	DLMV45/15F11	3300	0.0044
DCBR223N	223 SURGE BIN - N	DCE	DLMV45/15F10	3300	0.0044
DCBR223S	223 SURGE BIN - S	DCE	DLMV45/15F10	3300	0.0044
DCCR221CER	221 Cold End Return	DCE	DLM3/3/15	10,000	0.0044
DCCR221P	221 Pin Seal Crusher	DCE	DLM3/4/10	8,800	0.0044
DCCR222/1CER	222/1 Cold End Return	DCE	DLMV12F	900	0.0044
DCCR222/1MC	222/1 Main Crusher	DCE	DLM2/5/15	11,000	0.0044
DCCR222CER	222 Cold End Return	DCE	DLM2/3/10	4,400	0.0044
DCCR223CER	223 Cold End Return	DCE	DLM3/4/10	8800	0.0044
DCCR223MC	223 Main Crusher	DCE	DLM1/4/15	4,400	0.0044
DCCVBC222C	222 Batch Conv. Cross	DCE	DLMV14/7K3	1100	0.0044
DCCV223C	223 Batch Conv. Cross	DCE	DLMV6/10F1	450	0.0044
DCCVBC221	221 Batch Conv.	DCE	DLMV14/7K3	1100	0.0044
DCCVBC222	222 Batch Conv.	DCE	DLMV20/10K3	1,450	0.0044
DCCVBC223	223 Batch Conv.	DCE	DLMV14/7K3	1100	0.0044
DCEP 221	221 EP Bin	DCE	DLMV7F	525	0.0044
DCEP 222	222 EP Bin	DCE	DLMV7F	525	0.0044
DCEP 223	223 EP Bin	DCE	DLMV10/10K3	750	0.0044

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**TABLE 2-2
CAV FACILITY WIDE DUST COLLECTORS**

EQUIPMENT NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	FLOWRATE SCF/MIN	GRAIN LOADING GR/SCF
DCHB101	223 MINOR ING.	DCE	UMA70HG1	350	0.015
DCHB102	223 MINOR ING.	DCE	UMA70HG1	350	0.015
DCHB103	223 MINOR ING.	DCE	UMA70HG1	350	0.015
DCHB104	223 MINOR ING.	DCE	UMA70HG1	350	0.015
DCMIX221	221 Batch Mix	DCE	DLMV15/15K3	1100	0.0044
DCMIX222	222 Batch Mix	DCE	DLMV15/15K3	1100	0.0044
DCMIX223N	223 Batch Mix	DCE	DLMV10/10F1	750	0.0044
DCMIX223S	223 Batch Mix	DCE	DLMV10/10F1	750	0.0044
DCMIN221	OLD MINOR ING.	SLY	#16 Economy	1090	0.02
DCSB221	221 SURGE BIN	DCE	DLMV45/15F11	3300	0.0044
DCSB222	222 SURGE BIN	DCE	DLMV45/15F11	3300	0.0044
DCCB	Main Crusher	Sly	PC-204-6	6200	0.02
	Blasting Cabinet	NA	NA	NA	0.02
	Blast Booth	NA	NA	NA	0.02

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MAY 17 2000

FEB. 5, 1988 1a with the aid of EPA AP-42 Manual for Particulate Matter (PM) and Sulfur Dioxide from the process with #6 fuel oil and natural gas, worst case scenarios. Allowable Compliance data included in 25 Pa. Code Sections 123.13 and 123.21, respectively. (SO₂) emission limits for PM

Case I Natural gas results product of combustion 13.473 cubic feet (standard) with 20 percent excess air (535, AP-40, Second Edition)
 On with 4.0 mmbtu/hr heat input.

1 ft³ Natural Gas

Flow: 4,000 x 13.473 = 53,892 acfh - Assume Stack Temperature of 90°F

@ 90°F Temp. 55,925 acfh, dscfh = 45,808 (assume 15 percent moisture)

Emission Factor from AP-42, PM = 6.2 lbs/10⁶ ft³ Natural Gas

PM Emission: $\frac{6.2 \times 4,000}{1,000,000} = 0.0248 \text{ lb/hr Emission}$

$= \frac{0.0248 \times 7,000}{45,808} = 0.0038 \text{ gr/dscf (Allowable = 0.04 gr/dscf)}$

SO₂ Emissions: Emission Factor = 0.6 lb/10⁶ ft³ Natural Gas

Emission = $\frac{0.6 \times 4,000}{1,000,000} = \frac{2.4}{1,000} = 0.0024 \text{ lb/hr Emission}$

PPM = $\frac{379 \times 10^6 \times 0.0024}{55,925 \times 64} = 0.187 \text{ ppm which is less than 1.0 ppm (Allowable Limit = 500 ppm)}$

Case II #6 Fuel Oil with 2.8 Percent Sulfur Content by Weight

Actual Typical Case 14.6 mmbtu/hr - Paint Drying Oven

40,510 acfm at 70°F Temperature with 15 Percent Moisture

dscfm = 34,434, 152,000 btu/gallon, oil usage = 96 gallon/hr.

PM = $\frac{9.19(S) + 3.22}{10^3 \text{ gallons}}$ (Ref. AP-42) (S = Sulfur Content by Weight)

$= \frac{9.19(2.8) + 3.22}{1,000} = 0.02895 \text{ lb/gallon, 2.73 lbs/hr.}$

Grains/dscf = $\frac{2.73 \times 7,000}{34,434 \times 60} = 0.0094 \text{ gr/dscf (Allowable = 0.04 gr/dscf)}$

SO₂ Emission = $\frac{142(S)}{10^3 \text{ gallon}} = \frac{142 \times 2.8}{1,000} = 0.3976 \text{ lb/gallon}$
 $= 0.3976 \times 96 = 38.17 \text{ lbs/hr.}$

PPM = $\frac{379 \times 10^6 \times 38.17}{40,510 \times 60 \times 64} = 93 \text{ PPM (Allowable Limit = 500 ppm)}$

Compliance demonstration with the aid of EPA AP-42 Manual for Part
Dioxide (SO₂) emissions generated from the combustion of #6 fuel oil
scenarios. Allowable limits for PM and SO₂ are included in 25 Pa. Code Sec. 11 and 123.22. *(PM and Sulfur
al gas, worst case
11 and 123.22)*

25 Pa. Code Section 123.11: PM allowable 0.4 lb/mmBtu heat input for comb.
than 2.5 mm but less than 50 mmBtu/hr heat input. *its, greater*

25 Pa. Code Section 123.22: SO₂ allowable 4.0 lbs/mmBtu heat input for all areas
air basin (maximum sulfur content 2.8 percent by weight) *reading*
able for Reading air basin - 3.0 lbs/mmBtu heat input (maximum
content 2.0 percent by weight). *sulfur*

Case I Fuel Oil with 2.8 Percent Sulfur Content by Weight:

SO₂ Emissions: 14,345 mmBtu/hr heat input
151,000 bu/gallons 95 gallons/hr
Emission factor from AP-42 is 142 (S)/10³ gallon (S = Sulfur content)

$$\text{SO}_2 \text{ Emission: } \frac{142 \times 2.8 \times 95}{1,000 \times 14,345} = 2.633 \text{ lbs/mmBtu heat input. (Allowable = 4.0 lbs/mmBtu)}$$

PM Emissions: $[9.19 (S) + 3.22] / 10^3$ gallon (S = Sulfur content by weight)

$$\frac{9.19 (2.8) + 3.22}{1,000 \text{ gallons}} = \frac{28.95 \text{ lbs}}{1,000 \text{ gallons}}$$

$$\frac{28.95 \times 95}{1,000 \times 14,345} = 0.192 \text{ lb/mmBtu heat input. (Allowable = 0.4 lb/mmBtu)}$$

Case II Natural Gas: Hourly Usage = 14,345 ft³/hr

Emission Factor from AP-42 is 6.2 lbs/10⁶ ft³ Natural Gas

$$\text{PM: } \frac{14,345 \times 6.2}{1,000,000 \times 14,345} = 0.006 \text{ lb/mmBtu heat input. (Allowable = 0.4 lb/mmBtu)}$$

SO₂ Emission Factor: 0.6 lb/10⁶ ft³ Natural Gas

$$\text{SO}_2 \text{ Emissions: } \frac{0.6 \times 14,345}{1,000,000 \times 14,345} = 0.0006 \text{ lb/mmBtu heat input. (Allowable = 4.0 lbs/mmBtu)}$$

Case III Fuel Oil with 2.0 Percent Sulfur Content by Weight for Reading Air Basin:

$$\text{SO}_2 \text{ Emissions: } \frac{142 \times 2 \times 95}{1,000 \times 14,345} = 1.33 \text{ lbs/mmBtu heat input. (Allowable is 3.0 lbs/mmBtu heat input.)}$$