



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

STATE ONLY OPERATING PERMIT

Issue Date: March 4, 2013

Effective Date: April 1, 2013

Expiration Date: March 31, 2018

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

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated.

State Only Permit No: 67-05095

Synthetic Minor

Federal Tax Id - Plant Code: 04-3349012-14

Owner Information

Name: OSRAM SYLVANIA, INC.

Mailing Address: 1128 ROOSEVELT AVE
YORK, PA 17404-2348

Plant Information

Plant: OSRAM SYLVANIA INC/YORK BASE PLT

Location: 67 York County

67963 West Manchester Township

SIC Code: 3469 Manufacturing - Metal Stampings, Nec

Responsible Official

Name: RICHARD MIKLITSCH

Title: OPERATIONS MGR

Phone: (717) 848 - 8080 Ext.325

Permit Contact Person

Name: CHARLES H WILLIAMSON

Title: SR ENV & SAFETY REP

Phone: (717) 848 - 8080 Ext.203

[Signature] _____

WILLIAMR. WEAVER, SOUTHCENTRAL REGION AIR PROGRAM MANAGER

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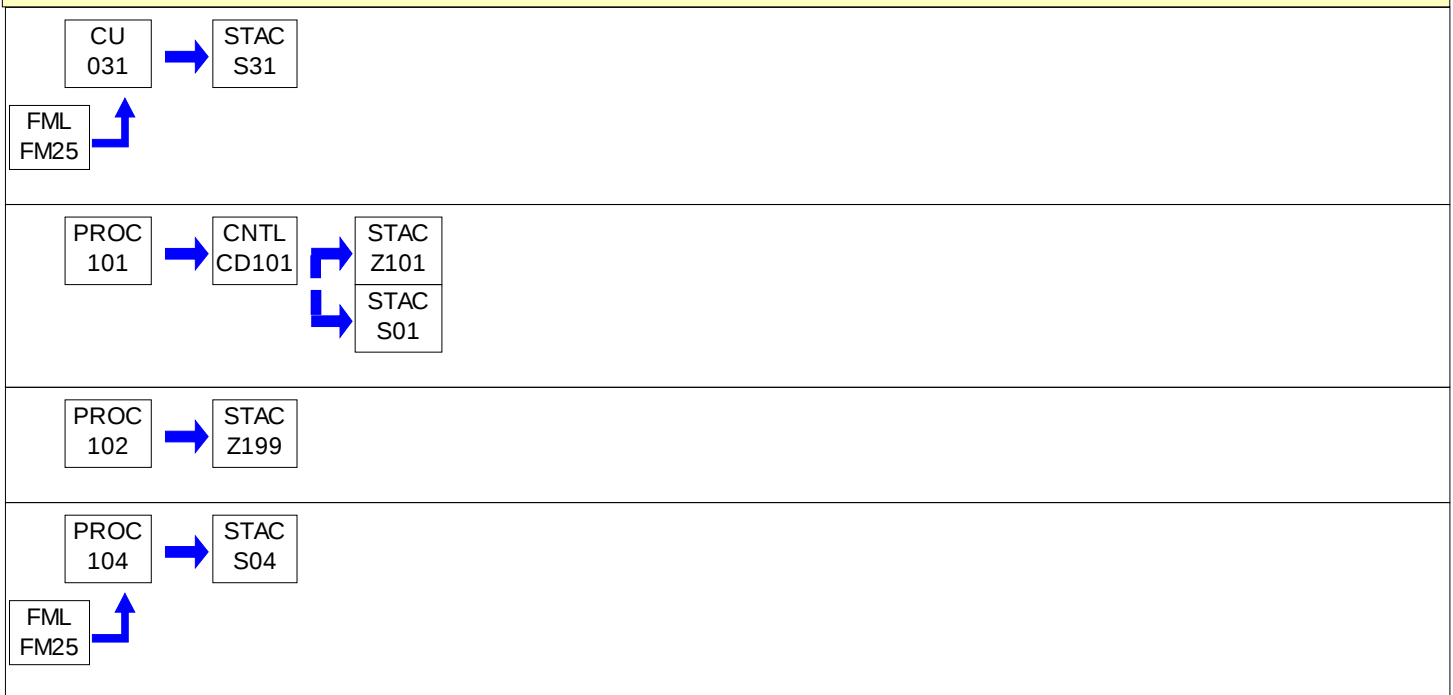
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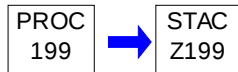
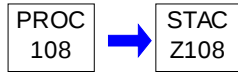
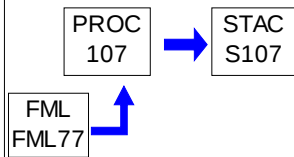
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Source ID	Source Name	Capacity/Throughput	Fuel/Material
031	BOILER	10.900 MMBTU/HR	
		10.900 MCF/HR	Natural Gas
101	DETREX CONV. DEGREASER	2.000 Lbs/HR	TCE
102	STAMPING LUBRICATION	2.000 Gal/HR	MISC LUBES
104	GLASSING FURNACES	9.360 MMBTU/HR	
		9.360 MCF/HR	Natural Gas
107	2.3 MMBTU/HR EMERGENCY GENERATOR	2.300 MMBTU/HR	
		16.000 Gal/HR	Diesel Fuel
108	REMOTE RESERVOIR COLD CLEANING MACHINES	1.000 Lbs/HR	VOC
199	MISCELLANEOUS SOLVENT USE	1.000 Gal/HR	SOLVENT USAGE
CD101	CARBON ADSORPTION UNIT		
FM25	NATURAL GAS SUPPLY		
FML77	DIESEL		
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PERMIT MAPS



PERMIT MAPS

SECTION B. General State Only Requirements

#001 [25 Pa. Code § 121.1]

Definitions.

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

#002 [25 Pa. Code § 127.446]

Operating Permit Duration.

- (a) This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit.
- (b) The terms and conditions of the expired permit shall automatically continue pending issuance of a new operating 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.

#003 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446 & 127.703(b)&(c)]

Permit Renewal.

- (a) The permittee shall submit a timely and complete application for renewal of the operating permit to the appropriate Regional Air Program Manager. The application for renewal of the operating permit shall be submitted at least six (6) months and not more than 18 months before the expiration date of this permit.
- (b) The application for permit renewal shall include the current permit number, a description of any permit revisions that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. 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.
- (c) The permittee shall submit with the renewal application a fee for the processing of the application and an additional annual administrative fee as specified in 25 Pa. Code § 127.703(b) and (c). The fees shall be made payable to "The Commonwealth of Pennsylvania - Clean Air Fund" and shall be for the amount specified in the following schedule specified in 25 Pa. Code § 127.703(b) and (c).
 - (1) Three hundred dollars for applications filed during the 2000-2004 calendar years.
 - (2) Three hundred seventy-five dollars for applications filed for the calendar years beginning in 2005.
- (d) 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.
- (e) The application for renewal of the operating permit shall also include submission of supplemental compliance review forms in accordance with the requirements of 25 Pa. Code § 127.412(b) and § 127.412(j).
- (f) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information as necessary to address any requirements that become applicable to the source after the permittee submits a complete application, but prior to the date the Department takes action on the permit application.

#004 [25 Pa. Code § 127.703]

Operating Permit Fees under Subchapter I.

- (a) The permittee shall pay fees according to the following schedule specified in 25 Pa. Code § 127.703(b):
 - (1) Three hundred dollars for applications filed during the 2000-2004 calendar years.
 - (2) Three hundred seventy-five dollars for applications filed for the calendar years beginning in 2005.

This fee schedule shall apply to the processing of an application for an operating permit as well as the extension,

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modification, revision, renewal, and re-issuance of each operating permit or part thereof.

(b) The permittee shall pay an annual operating permit administrative fee according to the fee schedule established in 25 Pa. Code § 127.703(c).

(1) Two hundred fifty dollars for applications filed during the 1995-1999 calendar years.

(2) Three hundred dollars for applications filed during the 2000-2004 calendar years.

(3) Three hundred seventy-five dollars for applications filed during the years beginning in 2005.

(c) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania - Clean Air Fund".

#005 [25 Pa. Code §§ 127.450 (a)(4) and 127.464]

Transfer of Operating Permits.

(a) This operating permit may not be transferred to another person, except in cases of transfer-of-ownership that are documented and approved by the Department.

(b) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership of the source shall be treated as an administrative amendment if the Department determines that no other change in the permit is required and 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 a compliance review form has been submitted to, and the permit transfer has been approved by, the Department.

(c) This operating permit is valid only for those specific sources and the specific source locations described in this permit.

#006 [25 Pa. Code § 127.441 and 35 P.S. § 4008]

Inspection and Entry.

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

(1) Enter at reasonable times upon the permittee's premises where a 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, at reasonable times, any records that are kept under the conditions of this permit;

(3) Inspect at reasonable times, any 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, any 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 or regulations adopted thereunder including denying the Department access to a source at this facility. Refusal of entry or access may constitute grounds for permit revocation and assessment of criminal and/or civil penalties.

(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 §§ 127.441 & 127.444]

Compliance Requirements.

(a) The permittee shall comply with the conditions of this operating permit. Noncompliance with this permit constitutes

SECTION B. General State Only Requirements

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 for the source is 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 State-Only 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 § 127.441]

Need to Halt or Reduce Activity Not a Defense.

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

#009 [25 Pa. Code §§ 127.442(a) & 127.461]

Duty to Provide Information.

(a) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of each source at the facility.

(b) The permittee shall furnish to the Department, in writing, information that the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to maintain in accordance with this permit.

#010 [25 Pa. Code § 127.461]

Revising an Operating Permit for Cause.

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

- (1) The permittee constructs or operates the source subject to the operating permit so that it is in violation of the Air Pollution Control Act, the Clean Air Act, the regulations thereunder, a plan approval, a permit or in a manner that causes air pollution.
- (2) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.
- (3) The permittee has failed to submit a report required by the operating permit or an applicable regulation.
- (4) The EPA determines that the permit is not in compliance with the Clean Air Act or the regulations thereunder.

#011 [25 Pa. Code §§ 127.450 & 127.462]

Operating Permit Modifications

- (a) The permittee is authorized to make administrative amendments, minor operating permit modifications and

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significant operating permit modifications, under this permit, as outlined below:

(b) Administrative Amendments. The permittee shall make administrative operating permit amendments (as defined in 25 Pa. Code § 127.450(a)), according to procedures specified in § 127.450 unless precluded by the Clean Air Act or its regulations.

(c) Minor Operating Permit Modifications. The permittee shall make minor operating permit modifications (as defined 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.

(d) Permit modifications which do not qualify as minor permit modifications under 25 Pa. Code § 127.541 will be treated as a significant operating permit revision subject to the public notification procedures in §§ 127.424 and 127.425.

#012 [25 Pa. Code § 127.441]

Severability Clause.

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

#013 [25 Pa. Code § 127.449]

De Minimis Emission Increases.

(a) This permit authorizes de minimis emission increases in accordance with 25 Pa. Code § 127.449 so long as the permittee provides the Department with seven (7) days prior written notice before commencing any de minimis emissions increase. The written notice shall:

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

(2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

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

(c) Except as provided below in (d), the permittee is authorized 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, the regulations thereunder 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, the regulations thereunder or 25 Pa. Code Article III.

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

(d) In accordance with § 127.14, the permittee is authorized to install the following minor sources without the need for a plan approval or permit modification:

SECTION B. General State Only Requirements

- (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 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.
- (e) 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 (c)(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 this permit, the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.
- (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, installation of minor sources made pursuant to this permit condition and Plan Approval Exemptions under 25 Pa. Code § 127.14 (relating to exemptions), the permittee is prohibited from making 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.

#014 [25 Pa. Code § 127.3]

Operational Flexibility.

The permittee is authorized to make changes within the facility in accordance with the regulatory provisions outlined in 25 Pa. Code § 127.3 (relating to operational flexibility) to implement the operational flexibility requirements provisions authorized under Section 6.1(i) of the Air Pollution Control Act and the operational flexibility terms and conditions of this permit. The provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements include the following:

- (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)

SECTION B. General State Only Requirements

(6) Section 127.462 (relating to minor operating permit modifications)

(7) Subchapter H (relating to general plan approvals and general operating permits)

#015 [25 Pa. Code § 127.11]

Reactivation

(a) The permittee may not reactivate a source that has been out of operation or production for at least one year unless the reactivation is conducted in accordance with a plan approval granted by the Department or in accordance with reactivation and maintenance plans developed and approved by the Department in accordance with 25 Pa. Code § 127.11a(a).

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

#016 [25 Pa. Code § 127.36]

Health Risk-based Emission Standards and Operating Practice Requirements.

(a) When needed to protect public health, welfare and the environment from emissions of hazardous air pollutants from new and existing sources, the permittee shall comply with the health risk-based emission standards or operating practice requirements imposed by the Department, except as precluded by §§ 6.6(d)(2) and (3) of the Air Pollution Control Act [35 P.S. § 4006.6(d)(2) and (3)].

(b) A person challenging a performance or emission standard established by the Department has the burden to demonstrate that performance or emission standard does not meet the requirements of Section 112 of the Clean Air Act.

#017 [25 Pa. Code § 121.9]

Circumvention.

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 25 Pa. Code Article III, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#018 [25 Pa. Code §§ 127.402(d) & 127.442]

Reporting Requirements.

(a) The permittee shall comply with the applicable reporting requirements of the Clean Air Act, the regulations thereunder, the Air Pollution Control Act and 25 Pa. Code Article III including Chapters 127, 135 and 139.

(b) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of any air contamination source.

(c) 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 in the permit transmittal letter, or otherwise notified)

(d) Any records or information including applications, forms, or reports submitted pursuant to this permit condition shall contain a certification by a responsible official as to truth, accuracy and completeness. The certifications submitted under this permit shall require a responsible official of the facility to certify that based on information and belief formed after reasonable inquiry, the statements and information in the documents are true, accurate and complete.

(e) Any records, reports or information submitted to the Department shall be available to the public except for such

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records, reports or information which meet the confidentiality requirements of § 4013.2 of the Air Pollution Control Act and §§ 112(d) and 114(c) of the Clean Air Act. The permittee may not request a claim of confidentiality for any emissions data generated for the facility.

#019 [25 Pa. Code §§ 127.441(c) & 135.5]

Sampling, Testing and Monitoring Procedures.

(a) The permittee shall comply with the monitoring, recordkeeping or reporting requirements of 25 Pa. Code Chapter 139 and the other applicable requirements of 25 Pa. Code Article III and additional requirements related to monitoring, reporting and recordkeeping required by the Clean Air Act and the regulations thereunder including the Compliance Assurance Monitoring requirements of 40 CFR Part 64, where applicable.

(b) Unless alternative methodology is required by the Clean Air Act and regulations adopted thereunder, sampling, testing and monitoring required by or used by the permittee to demonstrate compliance with any applicable regulation or permit condition shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139.

#020 [25 Pa. Code §§ 127.441(c) and 135.5]

Recordkeeping.

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

- (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 any 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.

#021 [25 Pa. Code § 127.441(a)]

Property Rights.

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

#022 [25 Pa. Code § 127.447]

Alternative Operating Scenarios.

The permittee is authorized to make changes at the facility to implement alternative operating scenarios identified in this permit in accordance with 25 Pa. Code § 127.447.

SECTION C. Site Level Requirements

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

The permittee shall not allow the emission into the outdoor atmosphere of a fugitive air contaminant from a source other than the following:

- (a) Construction or demolition of buildings or structures.
- (b) Grading, paving and maintenance of roads and streets.
- (c) 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.
- (d) Clearing of land.
- (e) Stockpiling of materials.
- (f) Sources and classes of sources other than those identified in (a)-(e), above, for which the permittee has obtained a determination from the Department, in accordance with 25 Pa. Code §123.1(b), that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (1) The emissions are of minor significance with respect to causing air pollution; and
 - (2) 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

The permittee shall not allow the emission of fugitive particulate matter into the outdoor atmosphere from a source specified in Section C, Condition #001(a)-(f), if the emissions are visible at the point the emissions pass outside the permittee's property.

003 [25 Pa. Code §123.31]

Limitations

The permittee shall not allow the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the permittee's property.

004 [25 Pa. Code §123.41]

Limitations

The permittee shall not allow the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

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

005 [25 Pa. Code §123.42]

Exceptions

The emission limitations of Section C, Condition #004, shall not apply when:

- (a) The presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (b) The emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (c) The emission results from sources specified in Section C, Condition #001(a)-(f).

SECTION C. Site Level Requirements

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the facility's annual emissions to less than the following thresholds during any consecutive 12-month period:

- (a) 100 tons per year (TPY) of NO_x.
- (b) 100 TPY of carbon monoxide (CO).
- (c) 50 TPY of volatile organic compounds (VOC).
- (d) 100 TPY of sulfur oxides (SO_x).
- (e) 100 TPY of PM-10 (particulate matter having an effective aerodynamic diameter less than or equal to a nominal 10 micron body).
- (f) 100 TPY of PM-2.5 (particulate matter having an effective aerodynamic diameter less than or equal to a nominal 2.5 micron body).
- (g) 10 TPY of any individual hazardous air pollutant (HAP).
- (h) 25 TPY of aggregate HAPs.
- (i) 100,000 TPY of greenhouse gases (GHGs) expressed as carbon dioxide equivalent (CO₂e).

007 [25 Pa. Code §129.14]

Open burning operations

The permittee shall not allow the open burning of material on the permittee's property except when the open burning operations result from:

- (a) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
- (b) A fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (c) A fire set for the prevention and control of disease or pests, when approved by the Department.
- (d) A fire set solely for recreational or ceremonial purposes.
- (e) A fire set solely for cooking food.

II. TESTING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Department reserves the right to require exhaust stack testing of the sources referenced in this operating permit to measure emissions for purposes including verification of operating permit condition compliance and estimation of annual air emissions.

009 [25 Pa. Code §139.1]

Sampling facilities.

Upon the request of the Department, the permittee shall provide adequate sampling ports, safe sampling platforms and adequate utilities for the performance by the Department of tests on any source. In the request, the Department will set forth 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, at a minimum, all of the following:

SECTION C. Site Level Requirements

- (1) A thorough source description, including a description of any air cleaning devices and the flue.
- (2) Process conditions, for example, the fuel firing rate, boiler pressure or temperature, and other conditions which may affect emissions from the process.
- (3) The location of the 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

The permittee shall measure visible emissions (referenced in Section C, Conditions #004, #005, and #012) using either of the following:

- (a) A device approved by the Department and maintained to provide accurate opacity measurements (e.g., Continuous Opacity Monitor).
- (b) Observers trained and certified in EPA Reference Method 9 to measure plume opacity with the naked eye; or with the aid of any device(s) approved by the Department.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall conduct a weekly inspection around the plant periphery during daylight hours when the plant is in production to detect visible emissions, fugitive particulate matter emissions, and malodorous air contaminants. Weekly inspections are necessary to determine:

- (a) The presence of visible emissions as stated in Section C, Condition #004. Visible emissions may be measured according to the methods specified in Section C, Condition #011. Alternately, plant personnel who observe visible emissions may report the incidence of visible emissions to the Department within two (2) hours of the incident and make arrangements for a certified observer to measure the visible emissions.
- (b) The presence of fugitive particulate matter emissions beyond the plant property boundaries, as stated in Section C, Condition #002.
- (c) The presence of malodorous air contaminants beyond the plant property boundaries, as stated in Section C, Condition #003.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall calculate the monthly air emissions from the facility using AP-42 emission factors, manufacturer-supplied emission factors, material balance, performance (stack) test data, or other method(s) acceptable to the Department.
- (b) The permittee shall calculate the cumulative facility air emissions for the previous 12 months on a monthly basis in order to demonstrate compliance with Section C, Condition #006.

SECTION C. Site Level Requirements

IV. RECORDKEEPING REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain records of the weekly inspections referenced in Section C, Condition #012. The records shall include, at a minimum, the following information:

- (1) The name of the company representative monitoring each inspection.
- (2) The date and time of each inspection.
- (3) The wind direction during each inspection.

(4) A description of the visible emissions, fugitive particulate matter emissions (beyond the plant property boundaries), and malodorous air contaminants (beyond the plant property boundaries) observed, if any, and actions taken to mitigate them. If no visible emissions or fugitive particulate matter emissions or malodors are observed, then document that none were observed.

(b) The permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its request.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

All records required by this operating permit and subsequent issuances shall be maintained for the most recent five-year period and made available to Department representatives upon request.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain records of the monthly usage of each fuel consumed at the entire facility.

(b) The permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its request.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain records of the facility's monthly air emissions and calculations referenced in Section C, Condition #013(a).

(b) The permittee shall maintain records of the cumulative facility air emissions for the previous 12 months on a monthly basis as referenced in Section C, Condition #013(b). This is necessary to demonstrate compliance with Section C, Condition #006.

(c) The permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its request.

018 [25 Pa. Code §135.5]

Recordkeeping

The permittee shall maintain and make available upon request by the Department, records including computerized records that may be necessary to comply with 25 Pa. Code Sections 135.3 and 135.21 (relating to reporting, and emission statements). These may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

V. REPORTING REQUIREMENTS.

019 [25 Pa. Code §127.442]

Reporting requirements.

The permittee shall report malfunctions to the Department. A malfunction is any sudden, infrequent and not reasonably preventable failure of air pollution control or monitoring equipment, process equipment, or a process to operate in a normal

SECTION C. Site Level Requirements

or usual manner that may result in an increase in air emissions. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. Malfunctions shall be reported as follows:

(a) Any malfunction which poses an imminent danger to the public health, safety, welfare, and environment, shall be immediately reported to the Department by telephone. The telephone report of such malfunctions shall occur no later than two (2) hours after the incident. The permittee shall submit a written report of instances of such malfunctions to the Department within three (3) days of the telephone report.

- (1) The notice shall describe the following:
- (i) name and location of the facility;
 - (ii) nature and cause of the malfunction;
 - (iii) time when the malfunction was first observed;
 - (iv) expected duration of excess emissions; and
 - (v) estimated rate of emissions.

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

(3) Subsequent to the malfunction, the owner or operator shall submit a full report of the malfunction to the Department within 15 days, if requested.

(4) The owner or operator shall submit reports on the operation and maintenance of the source to the Department at such intervals and in such form and detail as may be required by the Department. Information required in the reports may include, but is not limited to, process weight rates, firing rates, hours of operation, and maintenance schedules.

(b) Unless otherwise required by this operating permit, any other malfunction that is not subject to the reporting requirements of part (a), above, shall be reported to the Department, in writing, within five (5) days of malfunction discovery.

(c) Malfunctions shall be reported to the Department at the following address:

PA DEP
York District Office
Air Quality Program
150 Roosevelt Avenue
York, PA 17401

Telephone reports shall be made to the Department's Air Quality Program at (717) 771-4481 during normal business hours or to the Department's Emergency Hotline at (877) 333-1904 at any time.

020 [25 Pa. Code §135.3]**Reporting**

(a) An annual air emissions report for a given calendar year is due no later than March 1 of the following year, and shall be submitted to the Air Quality District Supervisor, at the following address, unless otherwise specified:

PA DEP
York District Office
Air Quality Program
150 Roosevelt Avenue
York, PA 17401

(b) The monthly fuel usage referenced in Condition #016 of Section C shall be included in the annual air emissions report.

(c) The monthly air emissions and calculations referenced in Conditions #013 and #015 of Section C shall be included in the annual air emissions report.

(d) The permittee may request an extension of time from the Department for the filing of the air emissions report specified in part (a), above, and the Department may grant the extension for reasonable cause.

SECTION C. Site Level Requirements

021 [25 Pa. Code §135.4]

Report format

All source reports shall contain sufficient information to enable the Department to complete its emission inventory. Source reports shall be made by the permittee in a format specified by the Department.

VI. WORK PRACTICE REQUIREMENTS.

022 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

The permittee shall take all reasonable actions to prevent particulate matter from becoming airborne from any source specified in Section C, Condition #001(a)-(f). These actions shall include, but not be limited to, the following:

(a) 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.

(b) Application of asphalt, oil, water, or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.

(c) Paving and maintenance of roadways.

(d) 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.

023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Operation of any air emissions source is contingent upon proper operation of its associated air emissions control system, unless otherwise approved by the Department.

024 [25 Pa. Code §127.444]

Compliance requirements.

The permittee shall operate and maintain all sources and any air cleaning devices identified in this operating permit in accordance with the manufacturer's recommendations/specifications, as well as in a manner consistent with good operating and air pollution control practices that minimize air emissions.

VII. ADDITIONAL REQUIREMENTS.

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

VIII. COMPLIANCE CERTIFICATION.

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

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

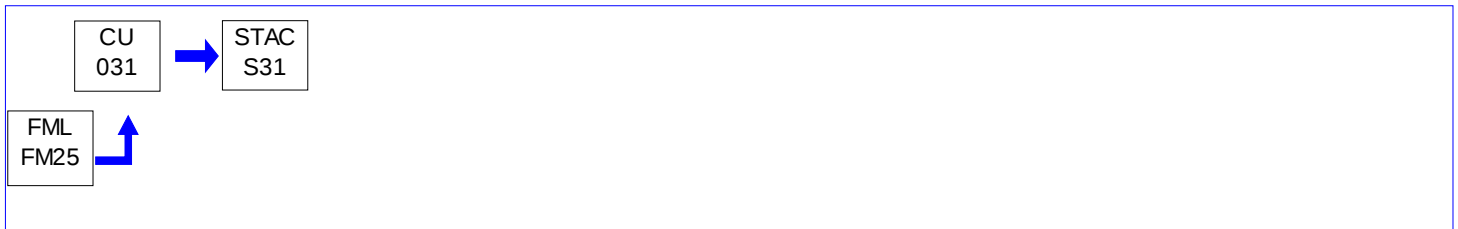
SECTION D. Source Level Requirements

Source ID: 031

Source Name: BOILER

Source Capacity/Throughput: 10.900 MMBTU/HR

10.900 MCF/HR Natural Gas

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

001 [25 Pa. Code §123.11]

Combustion units

The permittee shall not allow the emission of particulate matter into the outdoor atmosphere from the Source ID 031 boiler in excess of 0.4 pound per million BTU of heat input.

002 [25 Pa. Code §123.22]

Combustion units

The permittee shall not allow the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from the Source ID 031 boiler in excess of four (4) pounds per million BTU of heat input over any one (1) hour period.

[Compliance with the requirement(s) specified in this streamlined permit condition assures compliance with the SIP-approved sulfur dioxide emission limit specified in 40 CFR §52.2020(c)(1)]

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate the Source ID 031 boiler using natural gas only.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

SECTION D. Source Level Requirements**VI. WORK PRACTICE REQUIREMENTS.**

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

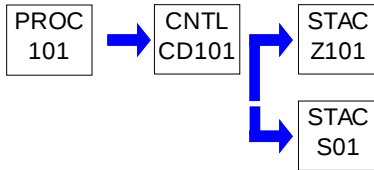
Source ID: 101

Source Name: DETREX CONV. DEGREASER

Source Capacity/Throughput:

2.000 Lbs/HR

TCE



I. RESTRICTIONS.

Emission Restriction(s).

001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.471]

Subpart T--National Emission Standards for Halogenated Solvent Cleaning
Facility-wide standards.

[Additional authority for this operating permit condition is also derived from Operating Permit No. 67-327-019]

(a) Each owner or operator of an affected facility shall comply with the requirements specified in 40 CFR §63.471. For purposes of this operating permit condition [i.e., 40 CFR §63.471], affected facility means all solvent cleaning machines, except solvent cleaning machines used in the manufacture and maintenance of aerospace products, solvent cleaning machines used in the manufacture of narrow tubing, and continuous web cleaning machines, located at a major source that are subject to the facility-wide limits in 40 CFR §63.471(b)(2), below, and for area sources, affected facility means all solvent cleaning machines, except cold batch cleaning machines, located at an area source that are subject to the facility-wide limits in 40 CFR §63.471(b)(2), below.

(b)(1) Each owner or operator of an affected facility must maintain a log of solvent additions and deletions for each solvent cleaning machine.

(2) Each owner or operator of an affected facility must ensure that the total emissions of perchloroethylene (PCE), trichloroethylene (TCE) and methylene chloride (MC) used at the affected facility are equal to or less than the applicable facility-wide 12-month rolling total emission limit presented in Table 1, below, as determined using the procedures in 40 CFR §63.471(c), below.

Table 1 - Facility-wide Emission Limits for Facilities With Solvent Cleaning Machines

Solvents emitted	Facility-wide annual emission limit (kg)
PCE only*	4,800 (5.29 tons)
TCE only	14,100 (15.54 tons)**
MC only	60,000 (66.14 tons)**
Multiple solvents***	60,000 (66.14 tons)

* PCE emission limit calculated using CalEPA URE

** THE FACILITY IS SUBJECT TO THE MORE STRINGENT INDIVIDUAL HAP EMISSION LIMIT OF CONDITION #006(g) OF SECTION C

*** Calculate the MC-weighted emissions using Equation 1, below. In the equation, the facility emissions of PCE and TCE are weighted according to their carcinogenic potency relative to that of MC. The value of A is 12.5. The value for B is 4.25.

$WE = (PCE \times A) + (TCE \times B) + (MC)$ (Equation 1)

Where:

SECTION D. Source Level Requirements

WE = Weighted 12-month rolling total emissions in kg (lbs)

PCE = 12-month rolling total PCE emissions from all solvent cleaning machines at the facility in kg (lbs)

TCE = 12-month rolling total TCE emission from all solvent cleaning machines at the facility in kg (lbs)

MC = 12-month rolling total MC emissions from all solvent cleaning machines at the facility in kg (lbs)

(c) Each owner or operator of an affected facility shall on the first operating day of every month, demonstrate compliance with the applicable facility-wide emission limit on a 12-month rolling total basis using the procedures in 40 CFR §63.471(c)(1) through (5), below. For purposes of this paragraph [i.e., 40 CFR §63.471(c)], "each solvent cleaning machine" means each solvent cleaning machine that is part of an affected facility regulated by this operating permit condition [i.e., 40 CFR §63.471].

[AN ALTERNATIVE EMISSIONS CALCULATION METHODOLOGY WAS APPROVED BY U.S. EPA VIA A LETTER DATED FEBRUARY 8, 2013]

(1) Each owner or operator of an affected facility shall, on the first operating day of every month, ensure that each solvent cleaning machine system contains only clean liquid solvent. This includes, but is not limited to, fresh unused solvent, recycled solvent, and used solvent that has been cleaned of soiled materials. A fill line must be indicated during the first month the measurements are made. The solvent level within the machine must be returned to the same fill-line each month, immediately prior to calculating monthly emissions as specified in 40 CFR §63.471(c)(2) and (3), below. The solvent cleaning machine does not have to be emptied and filled with fresh unused solvent prior to the calculations.

(2) Each owner or operator of an affected facility shall, on the first operating day of the month, using the records of all solvent additions and deletions for the previous month, determine solvent emissions (Eunit) from each solvent cleaning machine using Equation 10, below.

$E_{unit} = SA_i - LS_{Ri} - SS_{Ri}$ (Equation 10)

Where:

E_{unit} = the total halogenated HAP solvent emissions from the solvent cleaning machine during the most recent month i, (kilograms of solvent per month).

SA_i = the total amount of halogenated HAP liquid solvent added to the solvent cleaning machine during the most recent month i, (kilograms of solvent per month).

LS_{Ri} = the total amount of halogenated HAP liquid solvent removed from the solvent cleaning machine during the most recent month i, (kilograms of solvent per month).

SS_{Ri} = the total amount of halogenated HAP solvent removed from the solvent cleaning machine in solid waste, obtained as described in 40 CFR §63.471(c)(3), below, during the most recent month i, (kilograms of solvent per month).

(3) Each owner or operator of an affected facility shall, on the first operating day of the month, determine SS_{Ri} using the method specified in 40 CFR §63.471(c)(3)(i) or (c)(3)(ii), below.

(i) From tests conducted using EPA Reference Method 25D.

(ii) By engineering calculations included in the compliance report.

(4) Each owner or operator of an affected facility shall on the first operating day of the month, after 12 months of emissions data are available, determine the 12-month rolling total emissions, E_{Tunit} , for the 12-month period ending with the most recent month using Equation 11, below.

$E_{Tunit} = [\sum_{j=1}^{12} (E_{unit})]$ (Equation 11)

SECTION D. Source Level Requirements

Where:

ETunit = the total halogenated HAP solvent emissions over the preceding 12 months, (kilograms of solvent emissions per 12-month period)

$\sum$ = Symbol used to denote summation

Eunit = halogenated HAP solvent emissions for each month (j) for the most recent 12 months (kilograms of solvent per month)

(5) Each owner or operator of an affected facility shall on the first operating day of the month, after 12 months of emissions data are available, determine the 12-month rolling total emissions, ETfacility, for the 12-month period ending with the most recent month using Equation 12, below.

$$ET_{\text{facility}} = [\sum_{j=1}^{12} (E_{\text{unit}})] \quad (\text{Equation 12})$$

Where:

ETfacility = the total halogenated HAP solvent emissions over the preceding 12 months for all cleaning machines at the facility, (kilograms of solvent emissions per 12-month period)

$\sum$ = Symbol used to denote summation

ETunit = the total halogenated HAP solvent emissions over the preceding 12 months for each unit j, where i equals the total number of units at the facility (kilograms of solvent emissions per 12-month period)

(d) If the applicable facility-wide emission limit presented in Table 1 of 40 CFR §63.471(b)(2) is not met, an exceedance has occurred. All exceedances shall be reported as required in 40 CFR §63.468(h).

(e) Each owner or operator of an affected facility shall maintain records specified in 40 CFR §63.471(e)(1) through (3), below, either in electronic or written form for a period of 5 years. For purposes of this paragraph [i.e., 40 CFR §63.471(e)], "each solvent cleaning machine" means each solvent cleaning machine that is part of an affected facility regulated by this operating permit condition [i.e., 40 CFR §63.471].

(1) The dates and amounts of solvent that are added to each solvent cleaning machine.

(2) The solvent composition of wastes removed from each solvent cleaning machines as determined using the procedure described in 40 CFR §63.471(c)(3), above.

(3) Calculation sheets showing how monthly emissions and the 12-month rolling total emissions from each solvent cleaning machine were determined, and the results of all calculations.

(f) Each owner or operator of an affected facility shall submit an initial notification report to the Administrator no later than May 3, 2010. This report shall include the information specified in 40 CFR §63.471(f)(1) through (5), below.

(1) The name and address of the owner or operator of the affected facility.

(2) The address (i.e., physical location) of the solvent cleaning machine(s) that is part of an affected facility regulated by this operating permit condition [i.e., 40 CFR §63.471].

(3) A brief description of each solvent cleaning machine at the affected facility including machine type (i.e., batch vapor, batch cold, vapor in-line or cold in-line), solvent/air interface area, and existing controls.

(4) The date of installation for each solvent cleaning machine.

SECTION D. Source Level Requirements

(5) An estimate of annual halogenated HAP solvent consumption for each solvent cleaning machine.

[THE PERMITTEE SUBMITTED THE INITIAL NOTIFICATION REPORT VIA A LETTER DATED FEBRUARY 8, 2013 THAT WAS RECEIVED BY THE DEPARTMENT ON FEBRUARY 11, 2013. U.S. EPA WAS COPIED ON THE LETTER]

(g) Each owner or operator of an affected facility shall submit to the Administrator an initial statement of compliance on or before May 3, 2010. The statement shall include the information specified in 40 CFR §63.471(g)(1) through (g)(3), below.

(1) The name and address of the owner or operator of the affected facility.

(2) The address (i.e., physical location) of each solvent cleaning machine that is part of an affected facility regulated by this operating permit condition [i.e., 40 CFR §63.471].

(3) The results of the first 12-month rolling total emissions calculation.

[THE PERMITTEE SUBMITTED THE INITIAL STATEMENT OF COMPLIANCE VIA A LETTER DATED FEBRUARY 8, 2013 THAT WAS RECEIVED BY THE DEPARTMENT ON FEBRUARY 11, 2013. U.S. EPA WAS COPIED ON THE LETTER]

(h) Each owner or operator of an affected facility shall submit a solvent emission report every year. This solvent emission report shall contain the requirements specified in 40 CFR §63.471(h)(1) through (h)(3), below.

(1) The average monthly solvent consumption for the affected facility in kilograms per month.

(2) The 12-month rolling total solvent emission estimates calculated each month using the method as described in 40 CFR §63.471(c), above.

(3) This report can be combined with the annual report required in 40 CFR §63.468(f) and (g) into a single report for each facility.

II. TESTING REQUIREMENTS.

002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.465]

Subpart T--National Emission Standards for Halogenated Solvent Cleaning

Test methods

(a) Except as provided in 40 CFR §63.465(f) and (g), below, for continuous web cleaning machines, each owner or operator of a batch vapor or in-line solvent cleaning machine complying with an idling emission limit standard in 40 CFR §63.463(b)(1)(ii), (b)(2)(ii), (c)(1)(ii), or (c)(2)(ii) shall determine the idling emission rate of the solvent cleaning machine using Reference Method 307 in Appendix A of 40 CFR Part 63.

(b) [N/A - THE IN-LINE SOLVENT CLEANING MACHINE IS NOT POTENTIALLY SUBJECT TO 40 CFR §63.464]

(c) [N/A - THE IN-LINE SOLVENT CLEANING MACHINE IS NOT POTENTIALLY SUBJECT TO 40 CFR §63.464]

(d) Each owner or operator of a batch vapor or in-line solvent cleaning machine using a dwell to comply with 40 CFR §63.463 shall determine the appropriate dwell time for each part or parts basket using the procedure specified in 40 CFR §63.465(d)(1) and (d)(2), below.

(1) Determine the amount of time for the part or parts basket to cease dripping once placed in the vapor zone. The part or parts basket used for this determination must be at room temperature before being placed in the vapor zone.

(2) The proper dwell time for parts to remain in the freeboard area above the vapor zone is no less than 35 percent of the time determined in 40 CFR §63.465(d)(1), above.

(e) An owner or operator of a source shall determine their potential to emit from all solvent cleaning machines using the procedures described in 40 CFR §63.465(e)(1) through (e)(3), below. A facility's total potential to emit is the sum of the HAP emissions from all solvent cleaning machines, plus all HAP emissions from other sources within the facility.

SECTION D. Source Level Requirements

(1) Determine the potential to emit for each individual solvent cleaning machine using Equation 6, below.

$$PTE_i = H_i \times W_i \times SAI_i \quad (\text{Equation 6})$$

Where:

PTE_i = the potential to emit for solvent cleaning machine i (kilograms of solvent per year)

H_i = hours of operation for solvent cleaning machine i (hours per year)

= 8760 hours per year, unless otherwise restricted by a Federally enforceable requirement

W_i = the working mode uncontrolled emission rate (kilograms per square meter per hour)

= 1.95 kilograms per square meter per hour for batch vapor and cold cleaning machines. [N/A - THE SOLVENT CLEANING MACHINE IS DEFINED AS AN IN-LINE SOLVENT CLEANING MACHINE PURSUANT TO 40 CFR §63.461]

= 1.12 kilograms per square meter per hour for in-line cleaning machines

SAI_i = solvent/air interface area of solvent cleaning machine i (square meters). 40 CFR §63.461 defines the solvent/air interface area for those machines that have a solvent/air interface. Solvent cleaning machines that do not have a solvent/air interface shall calculate a solvent/air interface area using the procedure in 40 CFR §63.465(e)(2), below.

(2) Solvent cleaning machines that do not have a solvent/air interface shall calculate a solvent/air interface area using Equation 7, below.

$$SAI = 2.20(Vol)^{0.6} \quad (\text{Equation 7})$$

Where:

SAI = the solvent/air interface area (square meters)

Vol = the cleaning capacity of the solvent cleaning machine (cubic meters)

0.6 = exponent of Vol

(3) [N/A - THERE IS ONLY ONE IN-LINE VAPOR SOLVENT CLEANING MACHINE AT THE FACILITY]

(f) [N/A - THE IN-LINE VAPOR SOLVENT CLEANING MACHINE DOES NOT SATISFY THE DEFINITION OF CONTINUOUS WEB CLEANING MACHINE CONTAINED AT 40 CFR §63.461]

(g) [N/A - THE IN-LINE VAPOR SOLVENT CLEANING MACHINE DOES NOT SATISFY THE DEFINITION OF CONTINUOUS WEB CLEANING MACHINE CONTAINED AT 40 CFR §63.461]

(h) [N/A - THE IN-LINE VAPOR SOLVENT CLEANING MACHINE DOES NOT SATISFY THE DEFINITION OF CONTINUOUS WEB CLEANING MACHINE CONTAINED AT 40 CFR §63.461]

III. MONITORING REQUIREMENTS.

003 [40 CFR Part 63 NESHAAPS for Source Categories §40 CFR 63.466]

Subpart T--National Emission Standards for Halogenated Solvent Cleaning

Monitoring procedures

(a) Except as provided in 40 CFR §63.466(g), below, each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the equipment standards in 40 CFR §63.463(b)(1)(i), (b)(2)(i), (c)(1)(i), (c)(2)(i), (g)(1), or (g)(2) shall conduct monitoring and record the results on a weekly basis for the control devices, as appropriate, specified in 40 CFR §63.466(a)(1) through (5), below.

SECTION D. Source Level Requirements

(1) If a freeboard refrigeration device is used to comply with these standards, the owner or operator shall use a thermometer or thermocouple to measure the temperature at the center of the air blanket during the idling mode.

(2) If a superheated vapor system is used to comply with these standards, the owner or operator shall use a thermometer or thermocouple to measure the temperature at the center of the superheated solvent vapor zone while the solvent cleaning machine is in the idling mode.

(3) [N/A - THE IN-LINE VAPOR SOLVENT CLEANING MACHINE DOES NOT SATISFY THE DEFINITION OF CONTINUOUS WEB CLEANING MACHINE CONTAINED AT 40 CFR §63.461]

(4) [N/A - THE IN-LINE VAPOR SOLVENT CLEANING MACHINE DOES NOT SATISFY THE DEFINITION OF CONTINUOUS WEB CLEANING MACHINE CONTAINED AT 40 CFR §63.461]

(5) [N/A - THE IN-LINE VAPOR SOLVENT CLEANING MACHINE DOES NOT SATISFY THE DEFINITION OF CONTINUOUS WEB CLEANING MACHINE CONTAINED AT 40 CFR §63.461]

(b) Except as provided in 40 CFR §63.466(g), below, each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the equipment standards of 40 CFR §63.463 (b)(1)(i), (b)(2)(i), (c)(1)(i), or (c)(2)(i) shall conduct monitoring and record the results on a monthly basis for the control devices, as appropriate, specified in 40 CFR §63.466(b)(1) and (b)(2), below.

(1) If a cover (working-mode, downtime-mode, and/or idling-mode cover) is used to comply with these standards, the owner or operator shall conduct a visual inspection to determine if the cover is opening and closing properly, completely covers the solvent cleaning machine openings when closed, and is free of cracks, holes, and other defects.

(2) If a dwell is used, the owner or operator shall determine the actual dwell time by measuring the period of time that parts are held within the freeboard area of the solvent cleaning machine after cleaning.

(c) Except as provided in 40 CFR §63.466(g), below, each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the equipment or idling standards in 40 CFR §63.463 shall monitor the hoist speed as described in 40 CFR §63.466(c)(1) through (c)(4), below.

(1) The owner or operator shall determine the hoist speed by measuring the time it takes for the hoist to travel a measured distance. The speed is equal to the distance in meters divided by the time in minutes (meters per minute).

(2) The monitoring shall be conducted monthly. If after the first year, no exceedances of the hoist speed are measured, the owner or operator may begin monitoring the hoist speed quarterly.

(3) If an exceedance of the hoist speed occurs during quarterly monitoring, the monitoring frequency returns to monthly until another year of compliance without an exceedance is demonstrated.

(4) If an owner or operator can demonstrate to the Administrator's satisfaction in the initial compliance report that the hoist cannot exceed a speed of 3.4 meters per minute (11 feet per minute), the required monitoring frequency is quarterly, including during the first year of compliance.

(d) Except as provided in 40 CFR §63.466(g), below, each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the equipment standards in 40 CFR §63.463(b)(1)(i), (b)(2)(i), (c)(1)(i), or (c)(2)(i) using a reduced room draft shall conduct monitoring and record the results as specified in 40 CFR §63.466(d)(1) or (d)(2), below.

(1) If the reduced room draft is maintained by controlling room parameters (i.e., redirecting fans, closing doors and windows, etc.), the owner or operator shall conduct an initial monitoring test of the wind speed and of room parameters, quarterly monitoring of wind speed, and weekly monitoring of room parameters as specified in 40 CFR §63.466(d)(1)(i) and (d)(1)(ii), below.

(i) Measure the wind speed within 6 inches above the top of the freeboard area of the solvent cleaning machine using the procedure specified in 40 CFR §63.466(d)(1)(i)(A) through (d)(1)(i)(D), below.

SECTION D. Source Level Requirements

- (A) Determine the direction of the wind current by slowly rotating a velometer or similar device until the maximum speed is located.
- (B) Orient a velometer in the direction of the wind current at each of the four corners of the solvent cleaning machine.
- (C) Record the reading for each corner.
- (D) Average the values obtained at each corner and record the average wind speed.
- (ii) Monitor on a weekly basis the room parameters established during the initial compliance test that are used to achieve the reduced room draft.
- (2) If an enclosure (full or partial) is used to achieve a reduced room draft, the owner or operator shall conduct an initial monitoring test and, thereafter, monthly monitoring tests of the wind speed within the enclosure using the procedure specified in 40 CFR §63.466(d)(2)(i) and (d)(2)(ii), below, and a monthly visual inspection of the enclosure to determine if it is free of cracks, holes and other defects.
- (i) Determine the direction of the wind current in the enclosure by slowly rotating a velometer inside the entrance to the enclosure until the maximum speed is located.
- (ii) Record the maximum wind speed.
- (e) Except as provided in 40 CFR §63.466(g), below, each owner or operator using a carbon adsorber to comply with 40 CFR Part 63, Subpart T, shall measure and record the concentration of halogenated HAP solvent in the exhaust of the carbon adsorber weekly with a colorimetric detector tube. This test shall be conducted while the solvent cleaning machine is in the working mode and is venting to the carbon adsorber. The exhaust concentration shall be determined using the procedure specified in 40 CFR §63.466(e)(1) through (e)(3), below.
- (1) Use a colorimetric detector tube designed to measure a concentration of 100 parts per million by volume of solvent in air to an accuracy of ± 25 parts per million by volume.
- (2) Use the colorimetric detector tube according to the manufacturer's instructions.
- (3) Provide a sampling port for monitoring within the exhaust outlet of the carbon adsorber that is easily accessible and located at least 8 stack or duct diameters downstream from any flow disturbance such as a bend, expansion, contraction, or outlet; downstream from no other inlet; and 2 stack or duct diameters upstream from any flow disturbance such as a bend, expansion, contraction, inlet or outlet.
- (f) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the idling emission limit standards of 40 CFR §63.463(b)(1)(ii), (b)(2)(ii), (c)(1)(ii), or (c)(2)(ii) shall comply with the requirements specified in 40 CFR §63.466(f)(1) and (f)(2), below.
- (1) If using controls listed in 40 CFR §63.466(a) through (e), above, the owner or operator shall comply with the monitoring frequency requirements in 40 CFR §63.466(a) through (e), above.
- (2) If using controls not listed in 40 CFR §63.466(a) through (e), above, the owner or operator shall establish the monitoring frequency for each control and submit it to the Administrator for approval in the initial test report.
- (g) Each owner or operator using a control device listed in 40 CFR §63.466(a) through (e), above, can use alternative monitoring procedures approved by the Administrator.

IV. RECORDKEEPING REQUIREMENTS.

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.467]
Subpart T--National Emission Standards for Halogenated Solvent Cleaning
Recordkeeping requirements

SECTION D. Source Level Requirements

(a) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the provisions of 40 CFR §63.463 shall maintain records in written or electronic form specified in 40 CFR §63.467(a)(1) through (7), below, for the lifetime of the machine.

(1) Owner's manuals, or if not available, written maintenance and operating procedures, for the solvent cleaning machine and control equipment.

(2) The date of installation for the solvent cleaning machine and all of its control devices. If the exact date for installation is not known, a letter certifying that the solvent cleaning machine and its control device(s) were installed prior to, or on, November 29, 1993, or after November 29, 1993, may be substituted.

(3) If a dwell is used to comply with these standards, records of the tests required in 40 CFR §63.465(d) to determine an appropriate dwell time for each part or parts basket.

(4) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the idling emission limit standards of 40 CFR §63.463(b)(1)(ii), (b)(2)(ii), (c)(1)(ii), or (c)(2)(ii) shall maintain records of the initial performance test, including the idling emission rate and values of the monitoring parameters measured during the test.

(5) Records of the halogenated HAP solvent content for each solvent used in a solvent cleaning machine subject to the provisions of 40 CFR Part 63, Subpart T.

(6) [N/A - THE IN-LINE VAPOR SOLVENT CLEANING MACHINE DOES NOT SATISFY THE DEFINITION OF CONTINUOUS WEB CLEANING MACHINE CONTAINED AT 40 CFR §63.461]

(7) [N/A - THE IN-LINE VAPOR SOLVENT CLEANING MACHINE DOES NOT SATISFY THE DEFINITION OF CONTINUOUS WEB CLEANING MACHINE CONTAINED AT 40 CFR §63.461]

(b) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with 40 CFR §63.463 shall maintain records specified in 40 CFR §63.467(b)(1) through (b)(4), below, either in electronic or written form for a period of 5 years.

(1) The results of control device monitoring required under 40 CFR §63.466.

(2) Information on the actions taken to comply with 40 CFR §63.463(e) and (f). This information shall include records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels.

(3) Estimates of annual solvent consumption for each solvent cleaning machine.

(4) If a carbon adsorber is used to comply with these standards, records of the date and results of the weekly measurement of the halogenated HAP solvent concentration in the carbon adsorber exhaust required in 40 CFR §63.466(e).

(c) [N/A - THE SOLVENT CLEANING MACHINE DOES NOT HAVE A SOLVENT/AIR INTERFACE AS DEFINED IN 40 CFR §63.461 AND THE SOLVENT CLEANING MACHINE IS DEFINED AS AN IN-LINE SOLVENT CLEANING MACHINE PURSUANT TO 40 CFR §63.461; THEREFORE, 40 CFR §63.464 IS NOT APPLICABLE]

(d) [N/A - THE SOLVENT CLEANING MACHINE DOES NOT HAVE A SOLVENT/AIR INTERFACE AS DEFINED IN 40 CFR §63.461 AND THE SOLVENT CLEANING MACHINE IS DEFINED AS AN IN-LINE SOLVENT CLEANING MACHINE PURSUANT TO 40 CFR §63.461; THEREFORE, 40 CFR §63.464 IS NOT APPLICABLE]

(e) [N/A - THE IN-LINE VAPOR SOLVENT CLEANING MACHINE DOES NOT SATISFY THE DEFINITION OF CONTINUOUS WEB CLEANING MACHINE CONTAINED AT 40 CFR §63.461]

SECTION D. Source Level Requirements

V. REPORTING REQUIREMENTS.

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.468]

Subpart T--National Emission Standards for Halogenated Solvent Cleaning

Reporting requirements

(a) Each owner or operator of an existing solvent cleaning machine subject to the provisions of 40 CFR Part 63, Subpart T, shall submit an initial notification report to the Administrator no later than August 29, 1995. This report shall include the information specified in 40 CFR §63.468(a)(1) through (a)(6), below.

(1) The name and address of the owner or operator.

(2) The address (i.e., physical location) of the solvent cleaning machine(s).

(3) A brief description of each solvent cleaning machine including machine type (i.e., batch vapor, batch cold, vapor in-line or cold in-line), solvent/air interface area, and existing controls.

(4) The date of installation for each solvent cleaning machine or a letter certifying that the solvent cleaning machine was installed prior to, or after, November 29, 1993.

(5) The anticipated compliance approach for each solvent cleaning machine.

(6) An estimate of annual halogenated HAP solvent consumption for each solvent cleaning machine.

(b) [N/A - THE SOLVENT CLEANING MACHINE IS DEFINED AS AN EXISTING SOLVENT CLEANING MACHINE PURSUANT TO 40 CFR §63.461]

(c) [N/A - THE SOLVENT CLEANING MACHINE IS DEFINED AS AN IN-LINE SOLVENT CLEANING MACHINE PURSUANT TO 40 CFR §63.461]

(d) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the provisions of 40 CFR §63.463 shall submit to the Administrator an initial statement of compliance for each solvent cleaning machine. For existing sources, this report shall be submitted to the Administrator no later than 150 days after the compliance date specified in 40 CFR §63.460(d). For new sources, this report shall be submitted to the Administrator no later than 150 days after startup or May 1, 1995, whichever is later. This statement shall include the requirements specified in 40 CFR §63.468(d)(1) through (d)(6), below.

(1) The name and address of the owner or operator.

(2) The address (i.e., physical location) of the solvent cleaning machine(s).

(3) A list of the control equipment used to achieve compliance for each solvent cleaning machine.

(4) For each piece of control equipment required to be monitored, a list of the parameters that are monitored and the values of these parameters measured on or during the first month after the compliance date.

(5) Conditions to maintain the wind speed requirements of 40 CFR §63.463(e)(2)(ii), if applicable.

(6) Each owner or operator of a solvent cleaning machine complying with the idling emission limit standards of 40 CFR §63.463(b)(1)(ii), (b)(2)(ii), (c)(1)(ii), and (c)(2)(ii) shall submit a test report for tests of idling emissions meeting the specifications in Method 307 of Appendix A to this 40 CFR Part 63. This report shall comply with the requirements specified in 40 CFR §63.468(d)(6)(i) through (d)(6)(iv), below.

(i) This test must be on the same specific model cleaner used at the source. The test can be done by the owner or operator of the affected machine or can be supplied by the vendor of that solvent cleaning machine or a third party.

(ii) This report must clearly state the monitoring parameters, monitoring frequency and the delineation of exceedances for each parameter.

SECTION D. Source Level Requirements

(iii) If a solvent cleaning machine vendor or third party test report is used to demonstrate compliance, it shall include the following for the solvent cleaning machine tested: Name of person(s) or company that performed the test, model name, the date the solvent cleaning machine was tested, serial number, and a diagram of the solvent cleaning machine tested.

(iv) If a solvent cleaning machine vendor or third party test report is used, the owner or operator of the solvent cleaning machine shall comply with the requirements specified in either 40 CFR §63.468(d)(6)(iv)(A) or (d)(6)(iv)(B), below.

(A) Submit a statement by the solvent cleaning machine vendor that the unit tested is the same as the unit the report is being submitted for.

(B) Demonstrate to the Administrator's satisfaction that the solvent emissions from the solvent cleaning machine for which the test report is being submitted are equal to or less than the solvent emissions from the solvent cleaning machine in the vendor test report.

(7) If a carbon adsorber is used to comply with these standards, the date and results of the weekly measurement of the halogenated HAP solvent concentration in the carbon adsorber exhaust required in 40 CFR §63.466(e).

(e) [N/A - THE SOLVENT CLEANING MACHINE DOES NOT HAVE A SOLVENT/AIR INTERFACE AS DEFINED IN 40 CFR §63.461 AND THE SOLVENT CLEANING MACHINE IS DEFINED AS AN IN-LINE SOLVENT CLEANING MACHINE PURSUANT TO 40 CFR §63.461; THEREFORE, 40 CFR §63.464 IS NOT APPLICABLE]

(f) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the provisions of 40 CFR §63.463 shall submit an annual report by February 1 of the year following the one for which the reporting is being made. This report shall include the requirements specified in 40 CFR §63.468(f)(1) through (f)(3), below.

(1) A signed statement from the facility owner or his designee stating that, "All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in 40 CFR §63.463(d)(10)."

(2) An estimate of solvent consumption for each solvent cleaning machine during the reporting period.

(3) [N/A - THE SOLVENT CLEANING MACHINE DOES NOT HAVE A SOLVENT/AIR INTERFACE AS DEFINED IN 40 CFR §63.461 AND THE SOLVENT CLEANING MACHINE IS DEFINED AS AN IN-LINE SOLVENT CLEANING MACHINE PURSUANT TO 40 CFR §63.461; THEREFORE, 40 CFR §63.464 IS NOT APPLICABLE]

(g) [N/A - THE SOLVENT CLEANING MACHINE DOES NOT HAVE A SOLVENT/AIR INTERFACE AS DEFINED IN 40 CFR §63.461 AND THE SOLVENT CLEANING MACHINE IS DEFINED AS AN IN-LINE SOLVENT CLEANING MACHINE PURSUANT TO 40 CFR §63.461; THEREFORE, 40 CFR §63.464 IS NOT APPLICABLE]

(h) Each owner or operator of a batch vapor or in-line solvent cleaning machine shall submit an exceedance report to the Administrator semiannually except when the Administrator determines on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source or an exceedance occurs. Once an exceedance has occurred the owner or operator shall follow a quarterly reporting format until a request to reduce reporting frequency under 40 CFR §63.468(i), below, is approved. Exceedance reports shall be delivered or postmarked by the 30th day following the end of each calendar half or quarter, as appropriate. The exceedance report shall include the applicable information in 40 CFR §63.468(h)(1) through (3), below.

(1) Information on the actions taken to comply with 40 CFR §63.463(e) and (f). This information shall include records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels.

(2) If an exceedance has occurred, the reason for the exceedance and a description of the actions taken.

(3) If no exceedances of a parameter have occurred, or a piece of equipment has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report.

SECTION D. Source Level Requirements

- (i) An owner or operator who is required to submit an exceedance report on a quarterly (or more frequent) basis may reduce the frequency of reporting to semiannual if the conditions in 40 CFR §63.468(i)(1) through (i)(3), below, are met.
- (1) The source has demonstrated a full year of compliance without an exceedance.
- (2) The owner or operator continues to comply with all relevant record keeping and monitoring requirements specified in 40 CFR Part 63, Subparts A (General Provisions) and T.
- (3) The Administrator does not object to a reduced frequency of reporting for the affected source as provided in 40 CFR §63.10(e)(3)(iii) of Subpart A (General Provisions).
- (j) [Reserved]
- (k) [N/A - THE PERMITTEE DID NOT REQUEST AN EQUIVALENCY DETERMINATION AS DESCRIBED IN 40 CFR §63.469 NOR DID IT SUBMIT AN EQUIVALENCY REQUEST REPORT TO THE ADMINISTRATOR BY JUNE 3, 1996]

VI. WORK PRACTICE REQUIREMENTS.**# 006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.463]****Subpart T--National Emission Standards for Halogenated Solvent Cleaning****Batch vapor and in-line cleaning machine standards**

- (a) Except as provided in 40 CFR §63.464 for all cleaning machines, each owner or operator of a solvent cleaning machine subject to the provisions of 40 CFR Part 63, Subpart T, shall ensure that each existing or new batch vapor or in-line solvent cleaning machine subject to the provisions of 40 CFR Part 63, Subpart T, conforms to the design requirements specified in 40 CFR §63.463(a)(1) through (7), below. The owner or operator of a continuous web cleaning machine shall comply with the requirements of 40 CFR §63.463(g) or (h), below, as appropriate, in lieu of complying with this paragraph [i.e., 40 CFR §63.463(a)].
- (1) Each cleaning machine shall be designed or operated to meet the control equipment or technique requirements in 40 CFR §63.463(a)(1)(i) or (a)(1)(ii), below.
- (i) An idling and downtime mode cover, as described in 40 CFR §63.463(d)(1)(i), below, that may be readily opened or closed, that completely covers the cleaning machine openings when in place, and is free of cracks, holes, and other defects.
- (ii) A reduced room draft as described in 40 CFR §63.463(e)(2)(ii), below.
- (2) Each cleaning machine shall have a freeboard ratio of 0.75 or greater.
- (3) Each cleaning machine shall have an automated parts handling system capable of moving parts or parts baskets at a speed of 3.4 meters per minute (11 feet per minute) or less from the initial loading of parts through removal of cleaned parts.
- (4) Each vapor cleaning machine shall be equipped with a device that shuts off the sump heat if the sump liquid solvent level drops to the sump heater coils. This requirement does not apply to a vapor cleaning machine that uses steam to heat the solvent.
- (5) Each vapor cleaning machine shall be equipped with a vapor level control device that shuts off sump heat if the vapor level in the vapor cleaning machine rises above the height of the primary condenser.
- (6) Each vapor cleaning machine shall have a primary condenser.
- (7) Each cleaning machine that uses a lip exhaust shall be designed and operated to route all collected solvent vapors through a properly operated and maintained carbon adsorber that meets the requirements of 40 CFR §63.463(e)(2)(vii), below.

SECTION D. Source Level Requirements

(b) [N/A - THE SOLVENT CLEANING MACHINE IS DEFINED AS AN IN-LINE CLEANING MACHINE PURSUANT TO 40 CFR §63.461]

(c) Except as provided in 40 CFR §63.464 for all cleaning machines, each owner or operator of an in-line cleaning machine shall comply with 40 CFR §63.463(c)(1) or (2), below, as appropriate. The owner or operator of a continuous web cleaning machine shall comply with the requirements of 40 CFR §63.463(g) or (h), below, as appropriate, in lieu of complying with this paragraph [i.e., 40 CFR §63.463(c)].

(1) Each owner or operator of an existing in-line cleaning machine shall comply with the requirements specified in either 40 CFR §63.463(c)(1)(i) or (c)(1)(ii), below.

(i) Employ one of the control combinations listed in Table 3 of 40 CFR Part 63, Subpart T, or other equivalent methods of control as determined using the procedure in 40 CFR §63.469 (equivalent methods of control).

Table 3 of 40 CFR Part 63, Subpart T – National Emission Standards for Halogenated Solvent Cleaning (Control Combinations for Existing In-Line Solvent Cleaning Machines)

Option	Control Combinations
1	Superheated vapor, freeboard ratio of 1.0
2	Freeboard refrigeration device, freeboard ratio of 1.0
3	Dwell, freeboard refrigeration device
4	Dwell, carbon adsorber

Note: Unlike most of the control techniques available for complying with 40 CFR Part 63, Subpart T, carbon adsorbers are not considered to be a pollution prevention measure. Use of such units may impose additional cost and burden for a number of reasons. First, carbon adsorption units are generally more expensive than other controls listed in the options. Second, these units may present cross-media impacts such as effluent discharges if not properly operated and maintained, and spent carbon beds have to be disposed of as hazardous waste. When making decisions about what controls to install on halogenated solvent cleaning machines to meet the requirements of 40 CFR Part 63, Subpart T, all of these factors should be weighed and pollution prevention measures are encouraged wherever possible.

[THE PERMITTEE CURRENTLY EMPLOYS OPTION 4 OF TABLE 3, ABOVE]

(ii) Demonstrate that their solvent cleaning machine can achieve and maintain an idling emission limit of 0.10 kilograms per hour per square meter (0.021 pounds per hour per square foot) of solvent/air interface area as determined using the procedures in 40 CFR §63.465(a) and Appendix A to 40 CFR Part 63.

(2) [N/A - THE SOLVENT CLEANING MACHINE IS DEFINED AS AN EXISTING IN-LINE CLEANING MACHINE PURSUANT TO 40 CFR §63.461]

(d) Except as provided in 40 CFR §63.464 for all cleaning machines, each owner or operator of an existing or new batch vapor or in-line solvent cleaning machine shall meet all of the following required work and operational practices specified in 40 CFR §63.463(d)(1) through (12), below, as applicable. The owner or operator of a continuous web cleaning machine shall comply with the requirements of 40 CFR §63.463(g) or (h), below, as appropriate, in lieu of complying with this paragraph [i.e., 40 CFR §63.463(d)].

(1) Control air disturbances across the cleaning machine opening(s) by incorporating the control equipment or techniques in 40 CFR §63.463(d)(1)(i) or (d)(1)(ii), below.

(i) Cover(s) to each solvent cleaning machine shall be in place during the idling mode, and during the downtime mode unless either the solvent has been removed from the machine or maintenance or monitoring is being performed that requires the cover(s) to not be in place.

(ii) A reduced room draft as described in 40 CFR §63.463(e)(2)(ii).

SECTION D. Source Level Requirements

(2) [N/A - THE SOLVENT CLEANING MACHINE IS DEFINED AS AN IN-LINE CLEANING MACHINE PURSUANT TO 40 CFR §63.461]

(3) Any spraying operations shall be done within the vapor zone or within a section of the solvent cleaning machine that is not directly exposed to the ambient air (i.e., a baffled or enclosed area of the solvent cleaning machine).

(4) Parts shall be oriented so that the solvent drains from them freely. Parts having cavities or blind holes shall be tipped or rotated before being removed from any solvent cleaning machine unless an equally effective approach has been approved by the Administrator.

(5) Parts baskets or parts shall not be removed from any solvent cleaning machine until dripping has stopped.

(6) During startup of each vapor cleaning machine, the primary condenser shall be turned on before the sump heater.

(7) During shutdown of each vapor cleaning machine, the sump heater shall be turned off and the solvent vapor layer allowed to collapse before the primary condenser is turned off.

(8) When solvent is added or drained from any solvent cleaning machine, the solvent shall be transferred using threaded or other leakproof couplings and the end of the pipe in the solvent sump shall be located beneath the liquid solvent surface.

(9) Each solvent cleaning machine and associated controls shall be maintained as recommended by the manufacturers of the equipment or using alternative maintenance practices that have been demonstrated to the Administrator's satisfaction to achieve the same or better results as those recommended by the manufacturer.

(10) Each operator of a solvent cleaning machine shall complete and pass the applicable sections of the test of solvent cleaning procedures in Appendix A to 40 CFR Part 63, Subpart T, if requested during an inspection by the Administrator.

(11) Waste solvent, still bottoms, and sump bottoms shall be collected and stored in closed containers. The closed containers may contain a device that would allow pressure relief, but would not allow liquid solvent to drain from the container.

(12) Sponges, fabric, wood, and paper products shall not be cleaned.

(e) Each owner or operator of a solvent cleaning machine complying with 40 CFR §63.463(b), (c), (g), or (h) shall comply with the requirements specified in 40 CFR §63.463(e)(1) through (4), below.

(1) Conduct monitoring of each control device used to comply with this operating permit condition [i.e., 40 CFR §63.463] as provided in 40 CFR §63.466.

(2) Determine during each monitoring period whether each control device used to comply with these standards meets the requirements specified in 40 CFR §63.463(e)(2)(i) through (xi), below.

(i) If a freeboard refrigeration device is used to comply with these standards, the owner or operator shall ensure that the chilled air blanket temperature (in °F), measured at the center of the air blanket, is no greater than 30 percent of the solvent's boiling point.

(ii) If a reduced room draft is used to comply with these standards, the owner or operator shall comply with the requirements specified in 40 CFR §63.463(e)(2)(ii)(A) and (e)(2)(ii)(B), below.

(A) Ensure that the flow or movement of air across the top of the freeboard area of the solvent cleaning machine or within the solvent cleaning machine enclosure does not exceed 15.2 meters per minute (50 feet per minute) at any time as measured using the procedures in 40 CFR §63.466(d).

(B) Establish and maintain the operating conditions under which the wind speed was demonstrated to be 15.2 meters per minute (50 feet per minute) or less as described in 40 CFR §63.466(d).

SECTION D. Source Level Requirements

(iii) If a working-mode cover is used to comply with these standards, the owner or operator shall comply with the requirements specified in 40 CFR §63.463(e)(2)(iii)(A) and (e)(2)(iii)(B), below.

(A) Ensure that the cover opens only for part entrance and removal and completely covers the cleaning machine openings when closed.

(B) Ensure that the working-mode cover is maintained free of cracks, holes, and other defects.

(iv) If an idling-mode cover is used to comply with these standards, the owner or operator shall comply with the requirements specified in 40 CFR §63.463(e)(2)(iv)(A) and (e)(2)(iv)(B), below.

(A) Ensure that the cover is in place whenever parts are not in the solvent cleaning machine and completely covers the cleaning machine openings when in place.

(B) Ensure that the idling-mode cover is maintained free of cracks, holes, and other defects.

(v) If a dwell is used to comply with these standards, the owner or operator shall comply with the requirements specified in 40 CFR §63.463(e)(2)(v)(A) and (e)(2)(v)(B), below.

(A) Determine the appropriate dwell time for each type of part or parts basket, or determine the maximum dwell time using the most complex part type or parts basket, as described in 40 CFR §63.465(d).

(B) Ensure that, after cleaning, each part is held in the solvent cleaning machine freeboard area above the vapor zone for the dwell time determined for that particular part or parts basket, or for the maximum dwell time determined using the most complex part type or parts basket.

(vi) If a superheated vapor system is used to comply with these standards, the owner or operator shall comply with the requirements specified in 40 CFR §63.463(e)(2)(vi)(A) through (e)(2)(vi)(C), below.

(A) Ensure that the temperature of the solvent vapor at the center of the superheated vapor zone is at least 10°F above the solvent's boiling point.

(B) Ensure that the manufacturer's specifications for determining the minimum proper dwell time within the superheated vapor system is followed.

(C) Ensure that parts remain within the superheated vapor for at least the minimum proper dwell time.

(vii) If a carbon adsorber in conjunction with a lip exhaust or other exhaust internal to the cleaning machine is used to comply with these standards, the owner or operator shall comply with the following requirements:

(A) Ensure that the concentration of organic solvent in the exhaust from this device does not exceed 100 parts per million of any halogenated HAP compound as measured using the procedure in 40 CFR §63.466(e). If the halogenated HAP solvent concentration in the carbon adsorber exhaust exceeds 100 parts per million, the owner or operator shall adjust the desorption schedule or replace the disposable canister, if not a regenerative system, so that the exhaust concentration of halogenated HAP solvent is brought below 100 parts per million.

(B) Ensure that the carbon adsorber bed is not bypassed during desorption.

(C) Ensure that the lip exhaust is located above the solvent cleaning machine cover so that the cover closes below the lip exhaust level.

(viii) [N/A - THE IN-LINE VAPOR SOLVENT CLEANING MACHINE DOES NOT SATISFY THE DEFINITION OF CONTINUOUS WEB CLEANING MACHINE CONTAINED AT 40 CFR §63.461]

(ix) [N/A - THE IN-LINE VAPOR SOLVENT CLEANING MACHINE DOES NOT SATISFY THE DEFINITION OF CONTINUOUS WEB CLEANING MACHINE CONTAINED AT 40 CFR §63.461]

SECTION D. Source Level Requirements

(x) [N/A - THE IN-LINE VAPOR SOLVENT CLEANING MACHINE DOES NOT SATISFY THE DEFINITION OF CONTINUOUS WEB CLEANING MACHINE CONTAINED AT 40 CFR §63.461]

(xi) [N/A - THE IN-LINE VAPOR SOLVENT CLEANING MACHINE DOES NOT SATISFY THE DEFINITION OF CONTINUOUS WEB CLEANING MACHINE CONTAINED AT 40 CFR §63.461]

(3) If any of the requirements of 40 CFR §63.463(e)(2), above, are not met, determine whether an exceedance has occurred using the criteria in 40 CFR §63.463(e)(3)(i) and (e)(3)(ii), below.

(i) An exceedance has occurred if the requirements of 40 CFR §63.463(e)(2)(ii)(B), (e)(2)(iii)(A), (e)(2)(iv)(A), (e)(2)(v), (e)(2)(vi)(B), (e)(2)(vi)(C), (e)(2)(vii)(B), or (e)(2)(vii)(C), above, have not been met.

(ii) An exceedance has occurred if the requirements of 40 CFR §63.463(e)(2)(i), (e)(2)(ii)(A), (e)(2)(iii)(B), (e)(2)(iv)(B), (e)(2)(v)(A), or (e)(2)(vii)(A), above, have not been met and are not corrected within 15 days of detection. Adjustments or repairs shall be made to the solvent cleaning system or control device to reestablish required levels. The parameter must be remeasured immediately upon adjustment or repair and demonstrated to be within required limits.

(4) The owner or operator shall report all exceedances and all corrections and adjustments made to avoid an exceedance as specified in 40 CFR §63.468(h).

(f) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the idling emission limit standards in 40 CFR §63.463(b)(1)(ii), (b)(2)(ii), (c)(1)(ii), or (c)(2)(ii), above, shall comply with the requirements specified in 40 CFR §63.463(f)(1) through (f)(5), below.

(1) Conduct an initial performance test to comply with the requirements specified in 40 CFR §63.463(f)(1)(i) and (f)(1)(ii), below.

(i) Demonstrate compliance with the applicable idling emission limit.

(ii) Establish parameters that will be monitored to demonstrate compliance. If a control device is used that is listed in 40 CFR §63.463(e)(2), above, then the requirements for that control device as listed in 40 CFR §63.463(e)(2), above, shall be used unless the owner or operator can demonstrate to the Administrator's satisfaction that an alternative strategy is equally effective.

(2) Conduct the periodic monitoring of the parameters used to demonstrate compliance as described in 40 CFR §63.466(f).

(3) Operate the solvent cleaning machine within parameters identified in the initial performance test.

(4) If any of the requirements in 40 CFR §63.463(f)(1) through (f)(3), above, are not met, determine whether an exceedance has occurred using the criteria in 40 CFR §63.463(f)(4)(i) and (f)(4)(ii), below.

(i) If using a control listed in 40 CFR §63.463(e), above, the owner or operator shall comply with the appropriate parameter values in 40 CFR §63.463(e)(2), above, and the exceedance delineations in 40 CFR §63.463(e)(3)(i) and (e)(3)(ii), above.

(ii) If using a control not listed in 40 CFR §63.463(e), above, the owner or operator shall indicate whether the exceedance of the parameters that are monitored to determine the proper functioning of this control would be classified as an immediate exceedance or whether a 15 day repair period would be allowed. This information must be submitted to the Administrator for approval.

(5) The owner or operator shall report all exceedances and all corrections and adjustments made to avoid an exceedance as specified in 40 CFR §63.468(h).

(g) [N/A - THE IN-LINE VAPOR SOLVENT CLEANING MACHINE DOES NOT SATISFY THE DEFINITION OF CONTINUOUS WEB CLEANING MACHINE CONTAINED AT 40 CFR §63.461]

SECTION D. Source Level Requirements

(h) [N/A - THE IN-LINE VAPOR SOLVENT CLEANING MACHINE DOES NOT SATISFY THE DEFINITION OF CONTINUOUS WEB CLEANING MACHINE CONTAINED AT 40 CFR §63.461]

VII. ADDITIONAL REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In the event that 40 CFR Part 63, Subpart T - National Emission Standards for Halogenated Solvent Cleaning (MACT Subpart T) is revised, the permittee shall comply with the revised version of MACT Subpart T, and shall not be required to comply with any provisions in this operating permit designated as having MACT Subpart T as their authority, to the extent that such operating permit provisions would be inconsistent with the applicable provisions of the revised MACT Subpart T.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1]

Subpart A--General Provisions

Applicability.

Source ID 101 is subject to 40 CFR Part 63, Subpart T - National Emission Standards for Halogenated Solvent Cleaning. The permittee shall comply with all applicable standards, compliance provisions, performance test, monitoring, record keeping, and reporting requirements contained at 40 CFR §§63.460 through 63.471, including all applicable portions of 40 CFR Part 63, Subpart A - General Provisions. The permittee shall comply with 40 CFR §63.13(a), which requires submission of copies of all requests, reports, applications, submittals, and other communications to both the U.S. Environmental Protection Agency (U.S. EPA) and the Department. The U.S. EPA copies shall be forwarded to:

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

The Department copies shall be forwarded to:

Regional Air Program Manager
PA Department of Environmental Protection
909 Elmerton Avenue
Harrisburg, PA 17110-8200

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.460]

Subpart T--National Emission Standards for Halogenated Solvent Cleaning

Applicability and designation of source

(a) The provisions of 40 CFR Part 63, Subpart T, apply to each individual batch vapor, in-line vapor, in-line cold, and batch cold solvent cleaning machine that uses any solvent containing methylene chloride (CAS No. 75-09-2), perchloroethylene (CAS No. 127-18-4), trichloroethylene (CAS No. 79-01-6), 1,1,1-trichloroethane (CAS No. 71-55-6), carbon tetrachloride (CAS No. 56-23-5) or chloroform (CAS No. 67-66-3), or any combination of these halogenated HAP solvents, in a total concentration greater than 5 percent by weight, as a cleaning and/or drying agent. The concentration of these solvents may be determined using EPA Test Method 18, material safety data sheets, or engineering calculations. Wipe cleaning activities, such as using a rag containing halogenated solvent or a spray cleaner containing halogenated solvent are not covered under the provisions of 40 CFR Part 63, Subpart T.

(b) Except as noted in Appendix B (General Provisions Applicability to Subpart T) of 40 CFR Part 63, Subpart T, the provisions of 40 CFR Part 63, Subpart A (General Provisions), apply to owners or operators of any solvent cleaning machine meeting the applicability criteria of 40 CFR §63.460(a), above.

(c) [N/A - THE IN-LINE VAPOR SOLVENT CLEANING MACHINE WAS CONSTRUCTED ON OR BEFORE NOVEMBER 29, 1993]

(d) Except as provided in 40 CFR §63.460(g), below, each solvent cleaning machine subject to 40 CFR Part 63, Subpart T,

SECTION D. Source Level Requirements

that commenced construction or reconstruction on or before November 29, 1993 shall achieve compliance with the provisions of 40 CFR Part 63, Subpart T, except for 40 CFR §63.471, no later than December 2, 1997.

(e) In delegating implementation and enforcement authority to a State under Section 112(d) of the Clean Air Act, the authority contained in 40 CFR §63.460(f), below, shall be retained by the Administrator and not transferred to a State.

(f) [Reserved]

(g) [N/A - THE IN-LINE VAPOR SOLVENT CLEANING MACHINE DOES NOT SATISFY THE DEFINITION OF CONTINUOUS WEB CLEANING MACHINE CONTAINED AT 40 CFR §63.461]

(h) If you are an owner or operator of an area source subject to 40 CFR Part 63, Subpart T, you are exempt from the obligation to obtain a permit under 40 CFR Part 70 or 71, provided you are not required to obtain a permit under 40 CFR §70.3(a) or 71.3(a) for a reason other than your status as an area source under 40 CFR Part 63, Subpart T. Notwithstanding the previous sentence, you must continue to comply with the provisions of 40 CFR Part 63, Subpart T, applicable to area sources.

(i) The compliance date for the requirements in 40 CFR §63.471 depends on the date that construction or reconstruction of the affected facility commences. For purposes of this paragraph [i.e., 40 CFR §63.460(i)], affected facility means all solvent cleaning machines, except solvent cleaning machines used in the manufacture and maintenance of aerospace products, solvent cleaning machines used in the manufacture of narrow tubing, and continuous web cleaning machines, located at a major source that are subject to the facility-wide limits in Table 1 of 40 CFR §63.471(b)(2), and for area sources, affected facility means all solvent cleaning machines, except cold batch cleaning machines, located at an area source that are subject to the facility-wide limits in Table 1 of 40 CFR §63.471(b)(2).

(1) Each affected facility that was constructed or reconstructed on or before August 17, 2006, shall be in compliance with the provisions of 40 CFR Part 63, Subpart T, no later than May 3, 2010.

(2) [N/A - THE IN-LINE VAPOR SOLVENT CLEANING MACHINE WAS CONSTRUCTED ON OR BEFORE AUGUST 17, 2006]

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.461]

Subpart T--National Emission Standards for Halogenated Solvent Cleaning Definitions

Terms used in 40 CFR Part 63, Subpart T - National Emission Standards for Halogenated Solvent Cleaning, as well as Section D, Source ID 101, are defined in the Clean Air Act; in 40 CFR §63.2 (General Provisions); and in 40 CFR §63.461.

SECTION D. Source Level Requirements

Source ID: 102

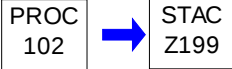
Source Name: STAMPING LUBRICATION

Source Capacity/Throughput:

2.000 Gal/HR

MISC LUBES

Conditions for this source occur in the following groups: 001



I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

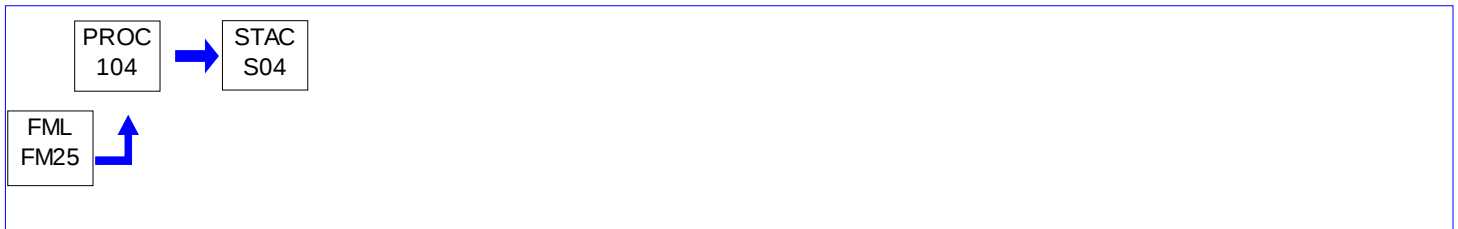
SECTION D. Source Level Requirements

Source ID: 104

Source Name: GLASSING FURNACES

Source Capacity/Throughput: 9.360 MMBTU/HR

9.360 MCF/HR Natural Gas

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

001 [25 Pa. Code §123.13]

Processes

The permittee shall not allow the emission into the outdoor atmosphere of particulate matter (PM) from each Source ID 104 glassing furnace in a manner that the concentration of PM in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

The permittee shall not allow the emission into the outdoor atmosphere of sulfur oxides from each Source ID 104 glassing furnace in a manner that the concentration of the sulfur oxides (expressed as SO₂) in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate each Source ID 104 glassing furnace using natural gas fuel only.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

SECTION D. Source Level Requirements**VI. WORK PRACTICE REQUIREMENTS.**

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 107

Source Name: 2.3 MMBTU/HR EMERGENCY GENERATOR

Source Capacity/Throughput:

2.300 MMBTU/HR

16.000 Gal/HR

Diesel Fuel

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

001 [25 Pa. Code §123.13]

Processes

The permittee shall not allow the emission into the outdoor atmosphere of particulate matter (PM) from Source ID 107 in a manner that the concentration of PM in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

The permittee shall not allow the emission into the outdoor atmosphere of sulfur oxides from Source ID 107 in a manner that the concentration of the sulfur oxides (expressed as SO₂) in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate Source ID 107 using diesel/No. 2 fuel oil only.

Operation Hours Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 107 shall not operate more than 500 hours during any consecutive 12-month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain records of Source ID 107's monthly hours of operation.

(b) The permittee shall maintain records of Source ID 107's cumulative hours of operation for each consecutive 12-month period. This is necessary to demonstrate compliance with Section C, Condition #004, above.

SECTION D. Source Level Requirements

(c) The permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon its request.

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What records must I keep?**

(a) If you must comply with the emission and operating limitations, you must keep the records described in 40 CFR §63.6655(a)(1) through (a)(5), (b)(1) through (b)(3) and (c), below.

(1) A copy of each notification and report that you submitted to comply with 40 CFR Part 63, Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in 40 CFR §63.10(b)(2)(xiv).

(2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

(3) [N/A - THE PERMITTEE IS NOT REQUIRED TO CONDUCT A PERFORMANCE TEST OR PERFORMANCE EVALUATIONS AS REQUIRED IN 40 CFR §63.10(b)(2)(viii)]

(4) Records of all required maintenance performed on the air pollution control and monitoring equipment.

(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(b) [N/A - CEMS AND CPMS ARE NOT REQUIRED]

(c) [N/A - THE STATIONARY RICE DOES NOT COMBUST ANY LANDFILL OR DIGESTER GAS]

(d) You must keep the records required in Table 6 of 40 CFR Part 63, Subpart ZZZZ, to show continuous compliance with each emission or operating limitation that applies to you.

(e) You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE:

(1) [N/A - THE STATIONARY RICE HAS A SITE RATING OF GREATER THAN OR EQUAL TO 100 BRAKE HP AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(2) An existing stationary emergency RICE.

(3) An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to 40 CFR Part 63, Subpart ZZZZ.

(f) If you own or operate any of the stationary RICE in 40 CFR §63.6655(f)(1) or (2), below, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.

(1) [N/A - THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(2) An existing emergency stationary RICE located at an area source of HAP emissions that does not meet the standards

SECTION D. Source Level Requirements

applicable to non-emergency engines.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6660]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

In what form and how long must I keep my records?

- (a) Your records must be in a form suitable and readily available for expeditious review according to 40 CFR §63.10(b)(1).
- (b) As specified in 40 CFR §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
- (c) You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR §63.10(b)(1).

40 CFR §63.10(b)(1) states the following:

(b) General recordkeeping requirements. (1) The owner or operator of an affected source subject to the provisions of 40 CFR Part 63 shall maintain files of all information (including all reports and notifications) required by 40 CFR Part 63 recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche.

V. REPORTING REQUIREMENTS.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6645]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What notifications must I submit and when?

(a) You must submit all of the notifications in 40 CFR §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified if you own or operate any of the following:

- (1) [N/A - THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]
- (2) An existing stationary RICE located at an area source of HAP emissions. [SEE 40 CFR §§63.6645(a)(5), BELOW]
- (3) [N/A - THE STATIONARY RICE HAS A SITE RATING OF LESS THAN OR EQUAL TO 500 BRAKE HP AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]
- (4) [N/A - THE STATIONARY RICE IS DEFINED AS AN EXISTING STATIONARY RICE; IS A COMPRESSION IGNITION RICE; AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]
- (5) This requirement does not apply if you own or operate an existing stationary RICE less than 100 HP, an existing stationary emergency RICE, or an existing stationary RICE that is not subject to any numerical emission standards.
- (b) [N/A - THE STATIONARY RICE HAS A SITE RATING OF LESS THAN OR EQUAL TO 500 BRAKE HP AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]
- (c) [N/A - THE STATIONARY RICE IS DEFINED AS AN EXISTING STATIONARY RICE; HAS A SITE RATING OF LESS THAN OR EQUAL TO 500 BRAKE HP; AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

SECTION D. Source Level Requirements

(d) [N/A - THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(e) [N/A - THE STATIONARY RICE IS DEFINED AS AN EXISTING STATIONARY RICE AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(f) [N/A - THE PERMITTEE IS NOT REQUIRED TO SUBMIT AN INITIAL NOTIFICATION FOR THE STATIONARY RICE AND IS NOT SUBJECT TO 40 CFR §63.6590(b)]

(g) [N/A - THE PERMITTEE IS NOT REQUIRED TO CONDUCT A PERFORMANCE TEST]

(h) [N/A - THE PERMITTEE IS NOT REQUIRED TO CONDUCT A PERFORMANCE TEST OR OTHER INITIAL COMPLIANCE DEMONSTRATION AS SPECIFIED IN TABLES 4 OR 5 TO 40 CFR PART 63, SUBPART ZZZZ]

VI. WORK PRACTICE REQUIREMENTS.

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6603]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What emission limitations and operating limitations must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?

Compliance with the numerical emission limitations established in 40 CFR Part 63, Subpart ZZZZ, is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in 40 CFR §63.6620 and Table 4 to 40 CFR Part 63, Subpart ZZZZ. [TABLE 4 IS NOT APPLICABLE TO THE EMERGENCY STATIONARY CI RICE HAVING A SITE RATING OF 330 BRAKE HP LOCATED AT AN AREA SOURCE OF HAP EMISSIONS]

(a) If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to 40 CFR Part 63, Subpart ZZZZ, and the operating limitations in Table 1b and Table 2b to 40 CFR Part 63, Subpart ZZZZ, that apply to you. [THE APPLICABLE TABLE 2d REQUIREMENTS ARE DESCRIBED BELOW; TABLES 1b AND 2b ARE NOT APPLICABLE TO THE EMERGENCY STATIONARY CI RICE HAVING A SITE RATING OF 330 BRAKE HP LOCATED AT AN AREA SOURCE OF HAP EMISSIONS]

(b) [N/A - THE STATIONARY RICE IS DEFINED AS AN EXISTING EMERGENCY STATIONARY CI RICE; HAS A SITE RATING OF 330 BRAKE HP; AND IS NOT LOCATED IN ALASKA]

Table 2d of 40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions)

As stated in 40 CFR §§63.6603 and 63.6640, you must comply with the following requirements for existing stationary RICE located at area sources of HAP emissions, except during periods of startup:

(a) Change oil and filter every 500 hours of operation or annually, whichever comes first;

(b) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and

(c) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6605]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations and operating limitations in 40 CFR Part 63, Subpart ZZZZ, that apply to you at all times.

SECTION D. Source Level Requirements

(b) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by 40 CFR Part 63, Subpart ZZZZ, have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What are my monitoring, installation, operation, and maintenance requirements?

(a) [N/A - TABLE 5 IS NOT APPLICABLE TO THE EXISTING EMERGENCY STATIONARY CI RICE HAVING A SITE RATING OF 330 BRAKE HP LOCATED AT AN AREA SOURCE OF HAP EMISSIONS]

(b) [N/A - TABLE 5 IS NOT APPLICABLE TO THE EXISTING EMERGENCY STATIONARY CI RICE HAVING A SITE RATING OF 330 BRAKE HP LOCATED AT AN AREA SOURCE OF HAP EMISSIONS]

(c) [N/A - THE EMERGENCY STATIONARY CI RICE IS DEFINED AS AN EXISTING STATIONARY RICE AND DOES NOT FIRE LANDFILL GAS OR DIGESTER GAS]

(d) [N/A - THE EMERGENCY STATIONARY CI RICE IS DEFINED AS AN EXISTING STATIONARY CI RICE AND IS LOCATED AT AN AREA SOURCE OF HAP EMISSIONS]

(e) If you own or operate any of the following stationary RICE, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions:

(1) [N/A - THE STATIONARY RICE HAS A SITE RATING OF GREATER THAN OR EQUAL TO 100 BRAKE HP AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(2) [N/A - THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(3) An existing emergency or black start stationary RICE located at an area source of HAP emissions

(4) [N/A - THE STATIONARY RICE IS DEFINED AS AN EMERGENCY STATIONARY RICE]

(5) [N/A - THE STATIONARY RICE IS DEFINED AS AN EMERGENCY STATIONARY CI RICE]

(6) [N/A - THE STATIONARY RICE IS DEFINED AS AN EMERGENCY STATIONARY RICE AND DOES NOT COMBUST ANY LANDFILL OR DIGESTER GAS]

(7) [N/A - THE STATIONARY RICE IS DEFINED AS AN EMERGENCY STATIONARY CI RICE]

(8) [N/A - THE STATIONARY RICE IS DEFINED AS AN EMERGENCY STATIONARY CI RICE]

(9) [N/A - THE STATIONARY RICE IS DEFINED AS AN EMERGENCY STATIONARY CI RICE AND HAS A SITE RATING OF LESS THAN OR EQUAL TO 500 BRAKE HP]

(10) [N/A - THE STATIONARY RICE IS DEFINED AS AN EMERGENCY STATIONARY CI RICE AND HAS A SITE RATING OF LESS THAN OR EQUAL TO 500 BRAKE HP]

(f) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed.

SECTION D. Source Level Requirements

(g) [N/A - THE STATIONARY RICE IS DEFINED AS AN EMERGENCY STATIONARY RICE]

(h) If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to 40 CFR Part 63, Subpart ZZZZ, apply.

(i) If you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to 40 CFR Part 63, Subpart ZZZZ, or in items 1 or 4 of Table 2d to 40 CFR Part 63, Subpart ZZZZ, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to 40 CFR Part 63, Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to 40 CFR Part 63, Subpart ZZZZ. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

(j) [N/A - THE STATIONARY RICE IS DEFINED AS AN STATIONARY CI RICE]

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

How do I demonstrate continuous compliance with the emission limitations and operating limitations?

(a) You must demonstrate continuous compliance with each emission limitation and operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to 40 CFR Part 63, Subpart ZZZZ, that apply to you according to methods specified in Table 6 to 40 CFR Part 63, Subpart ZZZZ. [THE APPLICABLE TABLE 6 REQUIREMENTS ARE DESCRIBED BELOW]

(b) You must report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to 40 CFR Part 63, Subpart ZZZZ, that apply to you. These instances are deviations from the emission and operating limitations in 40 CFR Part 63, Subpart ZZZZ. These deviations must be reported according to the requirements in 40 CFR §63.6650. If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to your stationary RICE.

(c) [Reserved]

(d) For new, reconstructed, and rebuilt stationary RICE, deviations from the emission or operating limitations that occur during the first 200 hours of operation from engine startup (engine burn-in period) are not violations. Rebuilt stationary RICE means a stationary RICE that has been rebuilt as that term is defined in 40 CFR §94.11(a).

(e) You must also report each instance in which you did not meet the requirements in Table 8 (Applicability of General Provisions to Subpart ZZZZ) to 40 CFR Part 63, Subpart ZZZZ, that apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to 40 CFR Part 63, Subpart ZZZZ: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, an existing emergency stationary RICE, an existing limited use stationary RICE, or an existing stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis. If you own or operate any of the

SECTION D. Source Level Requirements

following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to 40 CFR Part 63, Subpart ZZZZ, except for the initial notification requirements: a new or reconstructed stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new or reconstructed emergency stationary RICE, or a new or reconstructed limited use stationary RICE. [TABLE 8 IS APPLICABLE TO THE STATIONARY RICE SINCE IT IS DEFINED AS AN EXISTING EMERGENCY STATIONARY CI RICE; HAS A SITE RATING OF LESS THAN OR EQUAL TO 500 BRAKE HP; DOES NOT COMBUST ANY LANDFILL OR DIGESTER GAS; AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(f) Requirements for emergency stationary RICE.

(1) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, a new or reconstructed emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that was installed on or after June 12, 2006, or an existing emergency stationary RICE located at an area source of HAP emissions, you must operate the emergency stationary RICE according to the requirements in 40 CFR §63.6640(f)(1)(i) through (iii), below. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR §63.6640(f)(1)(i) through (iii), below, is prohibited. If you do not operate the engine according to the requirements in 40 CFR §63.6640(f)(1)(i) through (iii), below, the engine will not be considered an emergency engine under 40 CFR Part 63, Subpart ZZZZ, and will need to meet all requirements for non-emergency engines.

(i) There is no time limit on the use of emergency stationary RICE in emergency situations.

(ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.

(iii) You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity, except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph [40 CFR §63.6640(f)(1)(iii)], as long as the power provided by the financial arrangement is limited to emergency power.

(2) [N/A - THE STATIONARY RICE IS DEFINED AS AN EMERGENCY STATIONARY RICE; HAS A SITE RATING OF LESS THAN OR EQUAL TO 500 BRAKE HP; AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

Table 6 of 40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (Continuous Compliance With Emission Limitations, Operating Limitations, Work Practices, and Management Practices)

As stated in 40 CFR §63.6640, you must demonstrate continuous compliance with the following work or management practices:

SECTION D. Source Level Requirements

(a) Operate and maintain the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or

(b) Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the stationary RICE in a manner consistent with good air pollution control practice for minimizing emissions.

VII. ADDITIONAL REQUIREMENTS.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In the event that 40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (MACT Subpart ZZZZ) is revised, the permittee shall comply with the revised version of MACT Subpart ZZZZ, and shall not be required to comply with any provisions in this operating permit designated as having MACT Subpart ZZZZ as their authority, to the extent that such operating permit provisions would be inconsistent with the applicable provisions of the revised MACT Subpart ZZZZ.

014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1]

Subpart A--General Provisions

Applicability.

Source ID 107 is subject to 40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. The permittee shall comply with all applicable standards, compliance provisions, performance test, monitoring, record keeping, and reporting requirements contained at 40 CFR §§63.6580 through 63.6675, including all applicable portions of 40 CFR Part 63, Subpart A - General Provisions. The permittee shall comply with 40 CFR §63.13(a), which requires submission of copies of all requests, reports, applications, submittals, and other communications to both the U.S. Environmental Protection Agency (U.S. EPA) and the Department. The U.S. EPA copies shall be forwarded to:

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

The Department copies shall be forwarded to:

Regional Air Program Manager
PA Department of Environmental Protection
909 Elmerton Avenue
Harrisburg, PA 17110-8200

015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6580]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What is the purpose of subpart ZZZZ?

40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (MACT Subpart ZZZZ) establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. MACT Subpart ZZZZ also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Am I subject to this subpart?

You are subject to 40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (MACT Subpart ZZZZ) if you own or operate a stationary RICE at a major or area

SECTION D. Source Level Requirements

source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/stand.

(a) A stationary RICE is any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR §1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.

(b) A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site.

(c) An area source of HAP emissions is a source that is not a major source.

(d) If you are an owner or operator of an area source subject to MACT Subpart ZZZZ, your status as an entity subject to a standard or other requirements under MACT Subpart ZZZZ does not subject you to the obligation to obtain a permit under 40 CFR Part 70 or 71, provided you are not required to obtain a permit under 40 CFR §70.3(a) or 40 CFR §71.3(a) for a reason other than your status as an area source under MACT Subpart ZZZZ. Notwithstanding the previous sentence, you must continue to comply with the provisions of MACT Subpart ZZZZ as applicable.

(e) If you are an owner or operator of a stationary RICE used for national security purposes, you may be eligible to request an exemption from the requirements of MACT Subpart ZZZZ as described in 40 CFR Part 1068, Subpart C.

017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6590]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What parts of my plant does this subpart cover?

40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (MACT Subpart ZZZZ) applies to each affected source.

(a) Affected source. An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand.

(1) Existing stationary RICE.

(i) [N/A - THE STATIONARY RICE HAS A SITE RATING OF LESS THAN OR EQUAL TO 500 BRAKE HP AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(ii) [N/A - THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(iii) For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

(iv) A change in ownership of an existing stationary RICE does not make that stationary RICE a new or reconstructed stationary RICE.

(2) New stationary RICE.

(i) [N/A - THE STATIONARY RICE HAS A SITE RATING OF LESS THAN OR EQUAL TO 500 BRAKE HP AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(ii) [N/A - THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(iii) [N/A - THE CONSTRUCTION OF THE STATIONARY RICE COMMENCED BEFORE JUNE 12, 2006]

(3) Reconstructed stationary RICE.

SECTION D. Source Level Requirements

(i) [N/A - THE STATIONARY RICE HAS A SITE RATING OF LESS THAN OR EQUAL TO 500 BRAKE HP AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(ii) [N/A - THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(iii) [N/A - THE STATIONARY RICE DOES NOT MEET THE DEFINITION OF "RECONSTRUCTION" IN 40 CFR §63.2]

(b) Stationary RICE subject to limited requirements.

(1) [N/A - THE STATIONARY RICE IS DEFINED AS AN EXISTING EMERGENCY STATIONARY RICE; HAS A SITE RATING OF LESS THAN OR EQUAL TO 500 BRAKE HP; AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(2) [N/A - THE STATIONARY RICE IS DEFINED AS AN EXISTING STATIONARY RICE; HAS A SITE RATING OF LESS THAN OR EQUAL TO 500 BRAKE HP; AND DOES NOT COMBUST ANY LANDFILL OR DIGESTER GAS; AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(3) The following stationary RICE do not have to meet the requirements of 40 CFR Part 63, Subpart ZZZZ and of 40 CFR Part 63, Subpart A, including initial notification requirements:

(i) [N/A - THE STATIONARY RICE IS A COMPRESSION IGNITION RICE; HAS A SITE RATING OF LESS THAN OR EQUAL TO 500 BRAKE HP; AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(ii) [N/A - THE STATIONARY RICE IS A COMPRESSION IGNITION RICE; HAS A SITE RATING OF LESS THAN OR EQUAL TO 500 BRAKE HP; AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(iii) [N/A - THE STATIONARY RICE HAS A SITE RATING OF LESS THAN OR EQUAL TO 500 BRAKE HP AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(iv) [N/A - THE STATIONARY RICE IS DEFINED AS AN EMERGENCY STATIONARY RICE; HAS A SITE RATING OF LESS THAN OR EQUAL TO 500 BRAKE HP; AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(v) [N/A - THE STATIONARY RICE HAS A SITE RATING OF LESS THAN OR EQUAL TO 500 BRAKE HP; DOES NOT COMBUST ANY LANDFILL OR DIGESTER GAS AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(vi) [N/A - THE STATIONARY RICE DOES NOT SATISFY THE DEFINITION OF RESIDENTIAL EMERGENCY STATIONARY RICE CONTAINED AT 40 CFR §63.6675]

(vii) [N/A - THE STATIONARY RICE DOES NOT SATISFY THE DEFINITION OF COMMERCIAL EMERGENCY STATIONARY RICE CONTAINED AT 40 CFR §63.6675]

(viii) [N/A - THE STATIONARY RICE DOES NOT SATISFY THE DEFINITION OF INSTITUTIONAL EMERGENCY STATIONARY RICE CONTAINED AT 40 CFR §63.6675]

(c) [N/A - THE STATIONARY RICES ARE NOT SUBJECT TO EITHER 40 CFR PART 60, SUBPART IIII, or 40 CFR PART 60, SUBPART JJJJ]

018 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6595]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

When do I have to comply with this subpart?

(a) Affected sources.

(1) If you have an existing stationary RICE, excluding existing non-emergency CI stationary RICE, with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than June 15, 2007. If you have an existing non-emergency CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, an existing stationary CI RICE with a site

SECTION D. Source Level Requirements

rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than May 3, 2013. If you have an existing stationary SI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary SI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than October 19, 2013. [THE STATIONARY CI RICE IS DEFINED AS EXISTING PURSUANT TO 40 CFR §63.6590(a)(1)(iii) AND IS LOCATED AT AN AREA SOURCE OF HAP EMISSIONS; THEREFORE, THE COMPLIANCE DATE = MAY 3, 2013]

(2) [N/A - THE STATIONARY RICE IS DEFINED AS AN EXISTING EMERGENCY STATIONARY RICE; HAS A SITE RATING OF LESS THAN OR EQUAL TO 500 BRAKE HP; AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(3) [N/A - THE STATIONARY RICE IS DEFINED AS AN EXISTING EMERGENCY STATIONARY RICE; HAS A SITE RATING OF LESS THAN OR EQUAL TO 500 BRAKE HP; AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(4) [N/A - THE STATIONARY RICE IS DEFINED AS AN EXISTING EMERGENCY STATIONARY RICE AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(5) [N/A - THE STATIONARY RICE IS DEFINED AS AN EXISTING EMERGENCY STATIONARY RICE AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

(6) [N/A - THE STATIONARY RICE IS DEFINED AS AN EXISTING EMERGENCY STATIONARY RICE]

(7) [N/A - THE STATIONARY RICE IS DEFINED AS AN EXISTING EMERGENCY STATIONARY RICE]

(b) Area sources that become major sources. If you have an area source that increases its emissions or its potential to emit such that it becomes a major source of HAP, the compliance dates in 40 CFR §63.6595(b)(1) and (2), below, apply to you.

(1) Any stationary RICE for which construction or reconstruction is commenced after the date when your area source becomes a major source of HAP must be in compliance with 40 CFR Part 63, Subpart ZZZZ, upon startup of your affected source.

(2) Any stationary RICE for which construction or reconstruction is commenced before your area source becomes a major source of HAP must be in compliance with the provisions of 40 CFR Part 63, Subpart ZZZZ, that are applicable to RICE located at major sources within 3 years after your area source becomes a major source of HAP.

(c) If you own or operate an affected source, you must meet the applicable notification requirements in 40 CFR §63.6645 and in 40 CFR Part 63, Subpart A (General Provisions).

019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6665]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What parts of the General Provisions apply to me?

Table 8 to 40 CFR Part 63, Subpart ZZZZ, shows which parts of the General Provisions in 40 CFR §§63.1 through 63.15 apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with any of the requirements of the General Provisions specified in Table 8: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, an existing stationary RICE that combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, an existing emergency stationary RICE, or an existing limited use stationary RICE. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in the General Provisions specified in Table 8 except for the initial notification requirements: A new stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new emergency stationary RICE, or a new limited use stationary RICE. [TABLE 8 IS APPLICABLE TO THE STATIONARY RICE SINCE IT IS

SECTION D. Source Level Requirements

DEFINED AS AN EXISTING EMERGENCY STATIONARY CI RICE; HAS A SITE RATING OF LESS THAN OR EQUAL TO 500 BRAKE HP; DOES NOT COMBUST ANY LANDFILL OR DIGESTER GAS; AND THE FACILITY IS AN AREA SOURCE OF HAP EMISSIONS]

020 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6675]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

What definitions apply to this subpart?

Terms used in 40 CFR Part 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, as well as Section D, Source ID 107, are defined in the Clean Air Act; in 40 CFR §63.2 (General Provisions); and in 40 CFR §63.6675.

SECTION D. Source Level Requirements

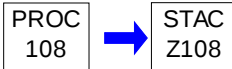
Source ID: 108

Source Name: REMOTE RESERVOIR COLD CLEANING MACHINES

Source Capacity/Throughput:

1.000 Lbs/HR

VOC

**I. RESTRICTIONS.****Throughput Restriction(s).****# 001 [25 Pa. Code §129.63]****Degreasing operations**

(a) The permittee may not use in any Source ID 108 machine any solvent with a vapor pressure of 1.0 millimeter of mercury (mm Hg) or greater and containing greater than 5% VOC by weight, measured at 20°C (68°F) containing VOCs.

(b) This operating permit condition does not apply:

(1) If a Source ID 108 machine is used in extreme cleaning service. Extreme cleaning service is defined as the use of a cold cleaning machine to clean parts used in the manufacture of the following gases or to clean parts exposed to these gases in manufacturing, production, research and development, analytical work, or other similar operations:

- (A) Oxygen in concentrations greater than 23%
- (B) Ozone
- (C) Nitrous oxide
- (D) Fluorine
- (E) Chlorine
- (F) Bromine
- (G) Halogenated compounds

(2) If the permittee demonstrates, and the Department approves in writing, that compliance with this operating permit condition will result in unsafe operating conditions.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.**# 002 [25 Pa. Code §129.63]****Degreasing operations**

The permittee shall maintain the following records for each Source ID 108 machine:

- (a) The name and address of the solvent supplier.
- (b) The type of solvent including the product or vendor identification number.
- (c) The vapor pressure of the solvent measured in mm Hg at 20°C (68°F).

An invoice, bill of sale, certificate that corresponds to a number of sales, Material Safety Data Sheet (MSDS), or other appropriate documentation acceptable to the Department may be used to comply with this operating permit condition.

SECTION D. Source Level Requirements

The permittee shall retain these records for a minimum of five (5) years and shall make them available to the Department upon its request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.**# 003 [25 Pa. Code §129.63]****Degreasing operations**

Each Source ID 108 machine shall be equipped with one of the following:

- (a) A cover that shall be closed at all times except during cleaning of parts or the addition or removal of solvent; or
- (b) A perforated drain with a diameter of not more than six (6) inches, if the Source ID 108 machine drains directly into the solvent storage reservoir.

004 [25 Pa. Code §129.63]**Degreasing operations**

The permittee shall operate each Source ID 108 machine in accordance with the following procedures:

- (a) Waste solvent shall be collected and stored in closed containers. The closed containers may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.
- (b) Flushing of parts using a flexible hose or other flushing device shall be performed only within the Source ID 108 machine. The solvent spray shall be a solid fluid stream, not an atomized or shower spray.
- (c) Sponges, fabric, wood, leather, paper products and other absorbent materials may not be cleaned in any Source ID 108 machine.
- (d) Air-agitated solvent baths may not be used.
- (e) Spills during solvent transfer and use of any Source ID 108 machine shall be cleaned up immediately.

005 [25 Pa. Code §129.63]**Degreasing operations**

Each Source ID 108 machine shall have a permanent, conspicuous label summarizing the operating requirements in Condition #004, above. In addition, the label shall include the following discretionary good operating practices:

- (a) Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts should be positioned so that solvent drains directly back to the Source ID 108 machine.
- (b) When a pump-agitated solvent bath is used, the agitator should be operated to produce a rolling motion of the solvent with no observable splashing of the solvent against the tank walls or the parts being cleaned.
- (c) Work area fans should be located and positioned so that they do not blow across the opening of the degreaser unit.

VII. ADDITIONAL REQUIREMENTS.**# 006 [25 Pa. Code §129.63]****Degreasing operations**

All of the aforementioned operating permit conditions apply to a Source ID 108 cold cleaning machine so long as the

SECTION D. Source Level Requirements

machine uses 2 gallons or more of solvents containing greater than 5% VOC content by weight for the cleaning of metal parts.

SECTION D. Source Level Requirements

Source ID: 199

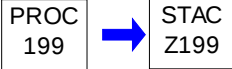
Source Name: MISCELLANEOUS SOLVENT USE

Source Capacity/Throughput:

1.000 Gal/HR

SOLVENT USAGE

Conditions for this source occur in the following groups: 001



I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION E. Source Group Restrictions.

Group Name: 001

Group Description: FUGITIVE VOC EMISSION SOURCES

Sources included in this group

ID	Name
102	STAMPING LUBRICATION
199	MISCELLANEOUS SOLVENT USE

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep all surface coating containers which contain VOCs tightly closed when not in use. Spills of materials containing VOCs shall be cleaned up immediately with cleaning cloths or other methods that will minimize the evaporation of VOCs into the atmosphere. Solvent-laden cleaning cloths shall be kept in closed containers when not in use.

VII. ADDITIONAL REQUIREMENTS.

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



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this State Only facility.

**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.

SECTION H. Miscellaneous.

NOTE: The capacities/throughputs listed in Section A are for informational use only and should not be used as enforceable limitations.

The following sources of minor significance have been exempted from work practice standards, and testing, monitoring, record keeping, and reporting requirements:

CNC Sand Blast Unit
Nitric Acid Passivating Tank
Cooling Towers (2 Units)
Dayton Unit Heater (1 Unit)
Hastings Natural Gas/Propane-fired Space Heaters (19 Units)
Jackson-Church Natural Gas-fired Makeup Air Units (7 Units)
Maintenance Welding
Shipping Dock Natural Gas/Propane-fired Space Heaters (5 Units)
Borax Hand Feed
Five Glass Silos and Transfer System
Cullet Silo Conveying
Four Compartment Storage Hopper
Furnace Cullet Hand Feed
Natural Gas/Propane-fired Melting Tank No. 11
Acid Loading Losses
Aluminum Final Cleaner Scrubber
Batch House Dust Collector
Brass Final Cleaner Tanks 1-5 w/ Scrubber; and Copper Recovery Tanks 1 & 2
Brass Final Cleaner Tanks 6-7
Corn Cob Dryer
Electric Glass Dryer
Metal Base Crusher
Metal Base Tooling Area
Nitric Acid Cleaning Tank (next to the Aluminum Final Cleaner)
Soap Coat Cleaner (Soap Tank)
Soap Coat Cleaner Tank Dryer (Soap Tank Dryer)
Dry Grinders (East Unit)
Dry Grinders (West Unit)
Electric Heat Treat Furnace Nos. 1 & 2 (natural gas/propane-fired flame curtains)
Quench Oil Tank
Wet Grinders (East Unit)
Wet Grinders (West Unit)
Horizontal Tumblers (3 Units)
Hastings Natural Gas-fired Makeup Air Unit
WWTP Lime Silo
Waste Water Pre-treatment Plant
FFS Room AC Unit
Metal Base Odyssey Cleaners
Metal Base Scrap Blowing System

The following serves as a description of some of the Source IDs:

Source ID 101 was previously the subject of Operating Permit No. 67-327-019.



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