



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: May 8, 2015

Effective Date: May 29, 2018

Revision Date: May 29, 2018

Expiration Date: May 8, 2020

Revision Type: Amendment

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

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

TITLE V Permit No: 46-00025

Federal Tax Id - Plant Code: 23-0411710-2

Owner Information

Name: JOHNSON MATTHEY INC

Mailing Address: 900 RIVER RD
CONSHOHOCKEN, PA 19428-2647

Plant Information

Plant: JOHNSON MATTHEY INC/RIVERSIDE

Location: 46 Montgomery County 46955 Upper Merion Township

SIC Code: 2833 Manufacturing - Medicinals And Botanicals

Responsible Official

Name: ALISSA HAYNES

Title: EHS MGR

Phone: (610) 292 - 4419

Permit Contact Person

Name: PETER GOTTHOLD

Title: ENVIRONMENTAL ENGINEER

Phone: (856) 537 - 6341

[Signature] _____

JAMES D. REBARCHAK, SOUTHEAST REGION AIR PROGRAM MANAGER

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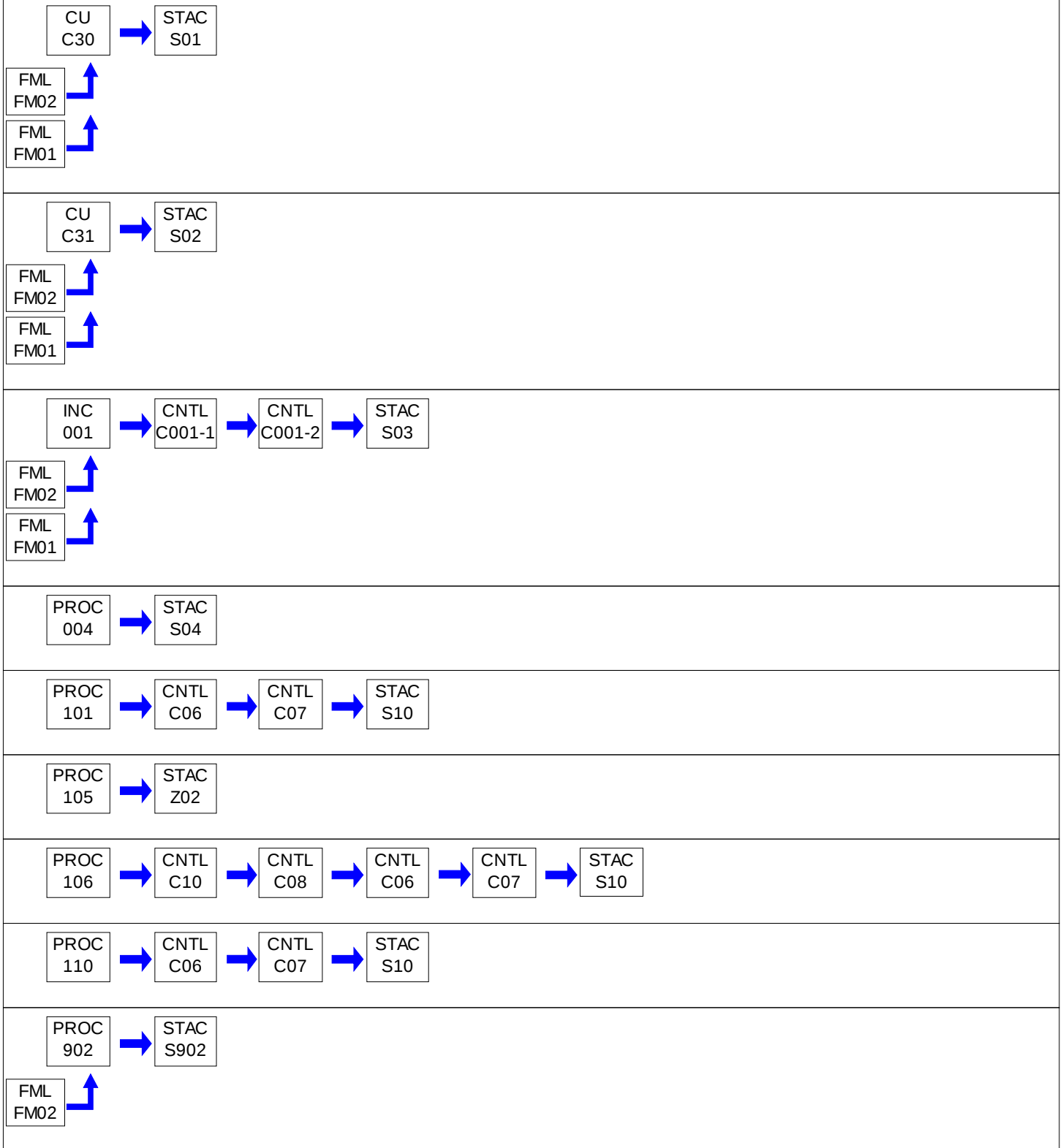
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**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput		Fuel/Material
C30	CLEAVER BROOKS BOILER 1	25.100	MMBTU/HR	
		182.500	Gal/HR	#2 Oil
		25.100	MCF/HR	Natural Gas
C31	CLEAVER BROOKS BOILER 2	25.100	MMBTU/HR	
		182.500	Gal/HR	#2 Oil
		25.100	MCF/HR	Natural Gas
001	HAZARDOUS WASTE INCINERATOR	60.710	Gal/HR	#2 Oil
		8,500.000	CF/HR	Natural Gas
		6,716.000	Lbs/HR	LIQUID WASTE
004	DUST COLLECTION SYSTEMS			
101	RAW MATERIAL & WASTE STORAGE TANKS			
103	WASTE SUMPS			
105	WASTEWATER TREATMENT			
106	MANUFACTURING PROCESSES	20.000	MCF/HR	Natural Gas
		3,000.000	Gal/HR	#2 Oil
		400.000	Lbs/HR	VOC
110	SOLVENT RECOVERY SYSTEM			
902	TWO INTERNAL COMBUSTION ENGINES	65.000	Gal/HR	#2 Oil
C001-1	VENTURI SCRUBBER			
C001-2	WET ELECTROSTATIC PRECIPITATOR (AIRPOL)			
C02	PACKED SCRUBBER			
C04	TORIT FABRIC FILTER			
C06	THERMAL OXIDIZER			
C07	PACKED TOWER			
C08	PRESCRUBBERS			
C10	CONDENSERS			
FM01	NATURAL GAS LINE			
FM02	FUEL OIL STORAGE TANK			
S01	BOILER 1 STACK			
S02	BOILER 2 STACK			
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S04	UNSPECIFIED NAME			
S10	POLLUTION CONTROL STACK			
S902	I.C.E. STACKS			
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PERMIT MAPS

PERMIT MAPS



SECTION B. General Title V Requirements

#001 [25 Pa. Code § 121.1]

Definitions

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

#002 [25 Pa. Code § 121.7]

Prohibition of Air Pollution

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

#003 [25 Pa. Code § 127.512(c)(4)]

Property Rights

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

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

Permit Expiration

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

#005 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446(e) & 127.503]

Permit Renewal

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

(b) The application for permit renewal shall include the current permit number, the appropriate permit renewal fee, a description of any permit revisions and off-permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term.

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

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

#006 [25 Pa. Code §§ 127.450(a)(4) & 127.464(a)]

Transfer of Ownership or Operational Control

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

(1) The Department determines that no other change in the permit is necessary;

(2) A written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee; and,

(3) A compliance review form has been submitted to the Department and the permit transfer has been approved by the Department.

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

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

Inspection and Entry

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

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

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

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

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

Compliance Requirements

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

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

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

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

#009 [25 Pa. Code § 127.512(c)(2)]

Need to Halt or Reduce Activity Not a Defense

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

#010 [25 Pa. Code §§ 127.411(d) & 127.512(c)(5)]

Duty to Provide Information

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

SECTION B. General Title V Requirements

to determine compliance with the permit.

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

#011 [25 Pa. Code §§ 127.463, 127.512(c)(3) & 127.542]

Reopening and Revising the Title V Permit for Cause

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

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

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

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

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

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

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

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

#012 [25 Pa. Code § 127.543]

Reopening a Title V Permit for Cause by EPA

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

#013 [25 Pa. Code § 127.522(a)]

Operating Permit Application Review by the EPA

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

R3_Air_Apps_and_Notices@epa.gov

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

#014 [25 Pa. Code § 127.541]

Significant Operating Permit Modifications

When permit modifications during the term of this permit do not qualify as minor permit modifications or administrative amendments, the permittee shall submit an application for significant Title V permit modifications in accordance with

SECTION B. General Title V Requirements

25 Pa. Code § 127.541. Notifications to EPA, pursuant to 25 PA Code §127.522(a), if required, shall be submitted, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

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

#015 [25 Pa. Code §§ 121.1 & 127.462]

Minor Operating Permit Modifications

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

R3_Air_Apps_and_Notices@epa.gov

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

#016 [25 Pa. Code § 127.450]

Administrative Operating Permit Amendments

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

R3_Air_Apps_and_Notices@epa.gov

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

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

#017 [25 Pa. Code § 127.512(b)]

Severability Clause

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

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

Fee Payment

(a) The permittee shall pay fees to the Department in accordance with the applicable fee schedules in 25 Pa. Code Chapter 127, Subchapter I (relating to plan approval and operating permit fees).

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

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

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

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(e) The permittee shall pay an annual operating permit administration fee according to the fee schedule established in 25 Pa. Code § 127.704(c) if the facility, identified in Subparagraph (iv) of the definition of the term "Title V facility" in 25 Pa. Code § 121.1, is subject to Title V after the EPA Administrator completes a rulemaking requiring regulation of those sources under Title V of the Clean Air Act.

(f) This permit condition does not apply to a Title V facility which qualifies for exemption from emission fees under 35 P.S. § 4006.3(f).

#019 [25 Pa. Code §§ 127.14(b) & 127.449]

Authorization for De Minimis Emission Increases

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

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

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

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

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

(1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.

(2) One ton of NO_x from a single source during the term of the permit and 5 tons of NO_x at the facility during the term of the permit.

(3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.

(4) Six-tenths of a ton of PM₁₀ from a single source during the term of the permit and 3.0 tons of PM₁₀ at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.

(5) One ton of VOCs from a single source during the term of the permit and 5.0 tons of VOCs at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.

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

(1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.

(2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.

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

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

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

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

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

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

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

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

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

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

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

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

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

#020 [25 Pa. Code §§ 127.11a & 127.215]

Reactivation of Sources

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

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

#021 [25 Pa. Code §§ 121.9 & 127.216]

Circumvention

(a) The owner of this Title V facility, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

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

SECTION B. General Title V Requirements

the device or technique may be used for control of malodors.

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

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

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

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

Office of Air Enforcement and Compliance Assistance (3AP20)
United States Environmental Protection Agency
Region 3
1650 Arch Street
Philadelphia, PA 19103-2029

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

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

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

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

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

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

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

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

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

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

Reporting Requirements

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

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

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

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

#026 [25 Pa. Code § 127.513]

Compliance Certification

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

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

(b) The compliance certification shall be postmarked or hand-delivered no later than thirty days after each anniversary of the date of issuance of this Title V Operating Permit, or on the submittal date specified elsewhere in the permit, to the Department and EPA in accordance with the submission requirements specified in condition #022 of this section.

#027 [25 Pa. Code § 127.3]

Operational Flexibility

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

- (1) Section 127.14 (relating to exemptions)

SECTION B. General Title V Requirements

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

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

Risk Management

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

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

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

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

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

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

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

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

(1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,

(2) Certify that the Title V facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.

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

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

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

SECTION B. General Title V Requirements

(2) The permittee fails to submit a compliance schedule or include a statement in the compliance certification required under Condition #26 of Section B of this Title V permit that the Title V facility is in compliance with the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68, and 25 Pa. Code § 127.512(i).

#029 [25 Pa. Code § 127.512(e)]

Approved Economic Incentives and Emission Trading Programs

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

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

Permit Shield

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

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

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

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

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

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

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

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

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

SECTION C. Site Level Requirements**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §121.7]****Prohibition of air pollution.**

No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. Section 4003).

002 [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) Open burning operations.
- (g) Sources and classes of sources other than those identified in (a)-(f), above, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (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.

003 [25 Pa. Code §123.2]**Fugitive particulate matter**

The permittee shall not allow the emission of fugitive particulate matter (PM) into the outdoor atmosphere from a source specified in 25 Pa. Code § 123.1(a)(1)-(9), if the emissions are visible at the point the emissions pass outside the permittee's property.

004 [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.

005 [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:

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

006 [25 Pa. Code §123.42]**Exceptions**

The emission limitations of Section C, Condition #005, shall not apply when:

- (1) The presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (2) The emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.

SECTION C. Site Level Requirements

(3) The emission results from sources specified in Section C, Condition #002(a)-(g).

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The volatile organic compound (VOC) emissions from this facility shall not exceed 49.9 tons per year on a 12-month rolling period.

(b). Exceedences of sub-condition (a) of this permit condition will result in the facility being subjected to 25 Pa. Code §§129.96-129.100.

008 [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:

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

009 Elective Restriction

The total Hazardous Air Pollutants (HAPs) from the facility shall not exceed:

- (a) 10 tons per year (on a 12-month rolling basis) of any individual Hazardous Air Pollutants (HAPs) and
- (b) 25 tons per year (on a 12-month rolling basis) of any combination of HAPs.

II. TESTING REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) If at any time the Department has cause to believe that air contaminant emissions from any source(s) listed in Section A, of this Permit, may be in excess of the limitations specified in this Permit, or established pursuant to, any applicable rule or regulation contained in 25 Pa. Code Article III, the permittee shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s).

(b) Such testing shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139, when applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.

011 [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 such source. The Department will set forth, in the request, the time period in which the facilities shall be provided as well as the specifications for such facilities.

012 [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

SECTION C. Site Level Requirements

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:

- (1) A thorough source description, including a description of any air cleaning devices and the flue.
- (2) Process conditions, for example, fuel firing rate, boiler temperature or pressure, material and throughput rates, 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.

013 [25 Pa. Code §123.43]

Measuring techniques

Visible emissions may be measured using either of the following:

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

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall monitor the facility, once per operating day, for the following:

- (1) Odors which may be objectionable (as per 25 Pa. Code §123.31).
- (2) Visible Emissions (as per 25 Pa. Code §§123.41 and 123.42).
- (3) Fugitive Particulate Matter (as per 25 Pa. Code §§ 123.1 and 123.2).

(b) Objectionable odors, fugitive particulate emissions, and visible emissions that are caused or may be caused by operations at the site shall:

- (1) Be investigated;
- (2) Be reported to the facility management, or individual(s) designated by the permittee;
- (3) Have appropriate corrective action taken (for emissions that originate on-site); and
- (4) Be recorded in a permanent written log.

(c) After six (6) months of daily monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the monitoring frequency to weekly for the next six month period.

(d) After six (6) months of weekly monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the frequency of monitoring to monthly.

SECTION C. Site Level Requirements

(e) The Department reserves the right to change the above monitoring requirements at any time, based on but not limited to: the review of the compliance certification, complaints, monitoring results, and/or Department findings.

015 elective restriction

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

The permittee shall monitor, on a monthly basis, the total HAP and VOC emissions from all sources at the facility utilizing Department approved methods.

IV. RECORDKEEPING REQUIREMENTS.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 127.511, 127.512(h) and §§ 129.91 - 129.95.]

The permittee shall keep records to demonstrate compliance with all permit conditions contained in this permit.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain detailed records of all maintenance performed on the air pollution control devices listed in Section A of this operating permit.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain a record of all of the facility's increases of emissions resulting from the following categories:

- (a) De minimis increases without notification to the Department,
- (b) De minimis increases with notification to the Department by letter,
- (c) Increases resulting from a Request for Determination to the Department,
- (d) Increases resulting from the issuance of a Plan Approval and subsequent Operating Permit.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The permittee shall maintain a record of all monitoring of fugitive emissions, visible emissions and odors, including those that deviate from the conditions found in this permit. The record of deviations shall contain, at a minimum, the following items:

- (a) Date, time, and location of the incident(s).
- (b) The cause of the event.
- (c) The corrective action taken, if necessary, to abate the situation and prevent future occurrences.

020 elective restriction

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

The permittee shall maintain monthly records of:

- (a) the total HAP emissions from all sources at the facility.
- (b) the calculations of the HAP emissions as well as the twelve (12) month rolling calculations.

SECTION C. Site Level Requirements

V. REPORTING REQUIREMENTS.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Within sixty (60) days after permit issuance, the permittee shall submit to the Department, for approval, all newly proposed recordkeeping formats required in this permit.

022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511(c)]

The deviation report required by Condition #022(b), of Section B, of this permit, is for monitoring deviations, only. This report shall be submitted to the Department at a frequency of at least every six (6) months.

023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

(a) The permittee shall, within two (2) hours, of becoming knowledgeable, of any occurrence, notify the Department, at (484) 250-5920, of any malfunction of the source(s) or associated air pollution control devices listed in Section A, of this permit, which results in, or may possibly result in, the emission of air contaminants in excess of the limitations specified in this permit, or regulation contained in 25 Pa. Code Article III.

(b) Malfunction(s) which occur at this Title V facility, and pose(s) an imminent danger to public health, safety, welfare and the environment, and would violate permit conditions if the source were to continue to operate after the malfunction, shall immediately be reported to the Department by telephone at the above number.

(c) A written report shall be submitted to the Department within two (2) working days following the notification of the incident, and shall describe, at a minimum, the following:

- (1) The malfunction(s).
- (2) The emission(s).
- (3) The duration.
- (4) Any corrective action taken.

024 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall submit the following reports:

(a) An annual certificate of compliance, due by April 1st of each year, for the period covering January 1 through December 31 of the previous year. This certificate of compliance shall document compliance with all permit terms and conditions set forth in this Title V permit as required under condition #24 of section B of this permit.

(b) A semi annual deviation report, due by October 1, of each year, for the period covering January 1 through June 30 of the same year. Note: The annual certification of compliance fulfills the obligation for the second deviation reporting period (July 1 through December 31 of the previous year).

025 [25 Pa. Code §135.21]

Emission statements

The permittee shall provide the Department with an annual emission statement, in a form prescribed by the Department, showing the actual emissions of oxides of nitrogen (NO_x) and volatile organic compounds (VOCs) for each source identified in Section A of this operating permit, as well as a description of the method used to calculate the emissions. The statement shall contain a certification by a company officer or the plant manager that the information contained in the statement is accurate. The annual emission statement for a given calendar year is due no later than March 1 of the following year, and shall be submitted to the Regional Air Program Manager unless otherwise specified.

026 [25 Pa. Code §135.3]

Reporting

(a) The annual Air Information Management System (AIMS) report for a given calendar year is due no later than March 1 of

SECTION C. Site Level Requirements

the following year, and shall be submitted to the Regional Air Program Manager unless otherwise specified.

(b) The permittee may request an extension of time from the Department for the filing of the AIMS report specified in subsection (a), above, and the Department may grant the extension for reasonable cause.

VI. WORK PRACTICE REQUIREMENTS.

027 [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 #002(a)-(g). These actions shall include, but are not 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.

028 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

029 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h)]

The permittee shall immediately, upon discovery, implement measures, which may include the application for the installation of an air cleaning device(s), if necessary, to reduce the air contaminant emissions to within applicable limitations, if at any time the operation of the source(s) identified in Section A of this permit, is causing the emission of air contaminants in excess of the limitations specified in, or established pursuant to, 25 Pa. Code Article III, or any other applicable rule promulgated under the Clean Air Act.

030 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h)]

The permittee may not modify any air contaminant system identified in Sections A or G, of this permit, prior to obtaining Department approval, except those modifications authorized by Condition #017(g), of Section B, of this permit.

VII. ADDITIONAL REQUIREMENTS.

031 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not impose conditions upon or otherwise restrict the Department's access to any of its sources and/or any associated air cleaning device(s). The permittee shall allow the Department to have access at any time to said sources and/or associated air cleaning device(s) with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act.

SECTION C. Site Level Requirements**# 032 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall reduce emissions of Class I and Class II refrigerants during the service, maintenance, repair, and disposal of equipment in accordance with the requirements of 40 CFR Part 82, subpart F, Recycling and Emissions Reduction."

VIII. COMPLIANCE CERTIFICATION.

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

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

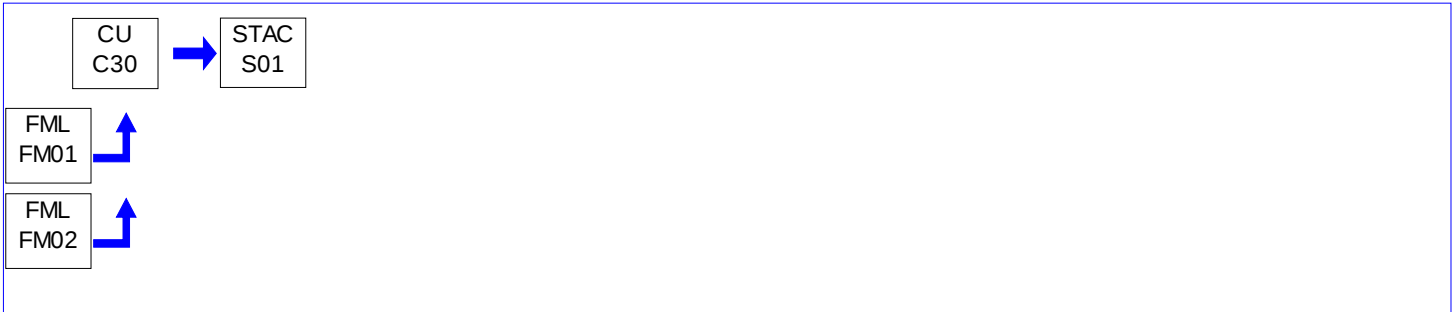
***** Permit Shield In Effect *****

SECTION D. Source Level Requirements

Source ID: C30

Source Name: CLEAVER BROOKS BOILER 1

Source Capacity/Throughput:	25.100	MMBTU/HR	
	182.500	Gal/HR	#2 Oil
	25.100	MCF/HR	Natural Gas



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.11]

Combustion units

The permittee may not permit the emission into the outdoor atmosphere of particulate matter from this combustion unit in excess of 0.4 pounds per million Btu of heat input, pursuant to 25 Pa. Code § 123.11(a)(1).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall limit the emissions of NO_x (Nitrogen Oxides) from boilers C30 and C31 (combined total) to less than 32.10 tons per year (on a 12 month rolling sum).

(b) The permittee shall limit the emissions of VOCs (Volatile Organic Compounds) from boilers C30 and C31 (combined total) to less than 0.62 tons per year (on a 12 month rolling sum).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from any combustion unit, in the Southeast Air Basin, in excess of 1.2 pounds per million Btu of heat input, pursuant to 25 Pa. Code § 123.22(e)(1).

004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.42c]

Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Standard for sulfur dioxide.

The permittee shall not cause to be discharged into the atmosphere any gases that contain SO₂ in excess of 0.50 lb/MMBtu heat input from oil.

[Compliance with the SO₂ standard above, assures compliance with the requirements of 25 Pa. Code § 123.22(e)(1).]

Fuel Restriction(s).

005 [25 Pa. Code §123.22]

Combustion units

(a). No person may, at any time, offer for sale, deliver for use, exchange in trade or permit the use of commercial fuel oil for use in combustion units in the Southeast Pennsylvania air basin which contains sulfur in excess of 0.2% by weight, pursuant to 25 Pa. Code § 123.22(e)(2).

(b). Beginning July 1, 2016, the maximum sulfur content in commercial fuel oil shall not exceed 0.05% by weight, except as follows:

(i). Commercial fuel that was stored in this Commonwealth by the ultimate consumer prior to July 1, 2016, which met the applicable maximum sulfur content for commercial fuel oil through June 30, 2016, in paragraph (a) above at the time it was

SECTION D. Source Level Requirements

stored, may be used by the ultimate consumer in this Commonwealth on and after July 1, 2016.

(ii). Beginning July 1, 2016, the Department may temporarily suspend or increase the applicable maximum allowable sulfur content for a commercial fuel oil set forth in subparagraph (i) if the following occur:

(1) The Department receives a written request at the address specified in 25 Pa. Code § 123.22(h) for a suspension or increase on the basis that compliant commercial fuel oil is not reasonably available in the subject air basin. The request must include both of the following:

(A) The reason compliant commercial fuel oil is not reasonably available.

(B) The duration of time for which the suspension or increase is requested and the justification for the requested duration.

(2) The Department determines that an insufficient quantity of compliant commercial fuel oil is reasonably available in the air basin and that the circumstances leading to the insufficiency are due to events that could not have been reasonably foreseen or prevented and are not due to lack of prudent planning on the part of the transferor of the commercial fuel oil into or within the air basin.

(3) The Department approves the request, in writing, prior to the transferor distributing the noncompliant commercial fuel oil into or within the air basin.

(iii). The Department will limit a suspension or increase in the applicable maximum allowable sulfur content granted under subparagraph (b)(ii) to the shortest duration in which adequate supplies of compliant commercial fuel oil can be made reasonably available, but in no case longer than 60 days from the date the Department grants the suspension or increase.

[Compliance with the sulfur content requirements in this condition also demonstrates compliance with the applicable requirements of 25 Pa. Code § 123.22(e)(1).]

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall use only natural gas or No. 2 fuel oil for this boiler.

Throughput Restriction(s).

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the burning of No. 2 fuel oil in both boilers (C30 and C31) combined, to less than 1.68 MM gallons per year.

II. TESTING REQUIREMENTS.

008 [25 Pa. Code §139.16]

Sulfur in fuel oil.

(a) The following are applicable to tests for the analysis of commercial fuel oil:

(1) The fuel oil sample for chemical analysis shall be collected in a manner that provides a representative sample. Upon the request of a Department official, the person responsible for the operation of the source shall collect the sample employing the procedures and equipment specified in 25 Pa. Code § 139.4(10) (relating to references).

(2) Tests methods and procedures for the determination of sulfur shall be those specified in 25 Pa. Code § 139.4(12)--(15).

(3) Results shall be reported in accordance with the units specified in 25 Pa. Code § 123.22 (relating to combustion units).

(b) The requirements in subpart (a), above, shall be waived in the event that a delivery receipt from the supplier, showing the

SECTION D. Source Level Requirements

maximum percent sulfur in the fuel, is obtained each time a fuel oil delivery is made.

III. MONITORING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following operating parameters on a daily basis:

- (a) The hours of operation, or the amount of fuel consumed.
- (b) The type of fuel consumed.

IV. RECORDKEEPING REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall calculate and record emissions of NO_x and VOCs from this source(s) on a monthly and 12-month rolling basis in order to demonstrate compliance with the emission limits.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of all fuel supplier certification receipts each time a delivery is made. Fuel supplier certifications shall include the following information, for distillate oil:

- (1) The name of the oil supplier.
- (2) A statement from the oil supplier that the oil complies with the specification under the definition of distillate oil in 40 CFR § 60.41c.
- (3) The sulfur content or maximum sulfur content of the oil.

In the event that a delivery is made, and no receipt is obtained, the permittee shall perform testing in accordance with Condition #007, of this source and maintain records of this testing.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of the following on a monthly basis:

- (a) The type and amount of fuel used
- (b) The hours of operation

[Compliance with this condition assures compliance with 40 CFR § 60.48c(g)(2).]

V. REPORTING REQUIREMENTS.

013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]

Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.

- (a) The permittee shall submit semi-annual reports in accordance with 40 CFR §§ 60.48c(d) and 60.48c(e)(11).
- (b) The report shall be postmarked by the 30th day following the end of the reporting period.
- (c) Pursuant to 40 CFR § 60.4, the permittee shall submit copies of all requests, reports, applications, submittals and other communications to both EPA and the appropriate regional office as indicated in Section B.

SECTION D. Source Level Requirements

VI. WORK PRACTICE REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall perform an annual boiler tune-up in accordance with the following conditions.

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

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

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

(4) Each adjustment conducted shall be recorded in a permanently bound log book or other method approved by the Department.

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

(b) The annual adjustment shall be made in accordance with the EPA document "Combustion Efficiency Optimization Manual for Operators of Oil and Gas-fired Boilers", September 1983 (EPA-340/1-83-023) or equivalent procedures approved in writing by the Department.

VII. ADDITIONAL REQUIREMENTS.

015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11195]

SUBPART JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources

Are any boilers not subject to this subpart?

As specified in 40 CFR § 63.11195(e), the affected boilers under this source identification shall not be subject to the requirements of Subpart JJJJJJ if it meets the definition of a Gas-fired boiler under 40 CFR § 63.11237.

A Gas-fired boiler is defined as any boiler that burns gaseous fuels not combined with any solid fuels, burns liquid fuel only during periods of gas curtailment, gas supply emergencies, or for periodic testing that does not exceed 48 hours during any calendar year.

Should the permittee operate these boilers in contrary to this definition, the boilers shall be subject to the requirements of the NESHAPS/MACT Subpart JJJJJJ.

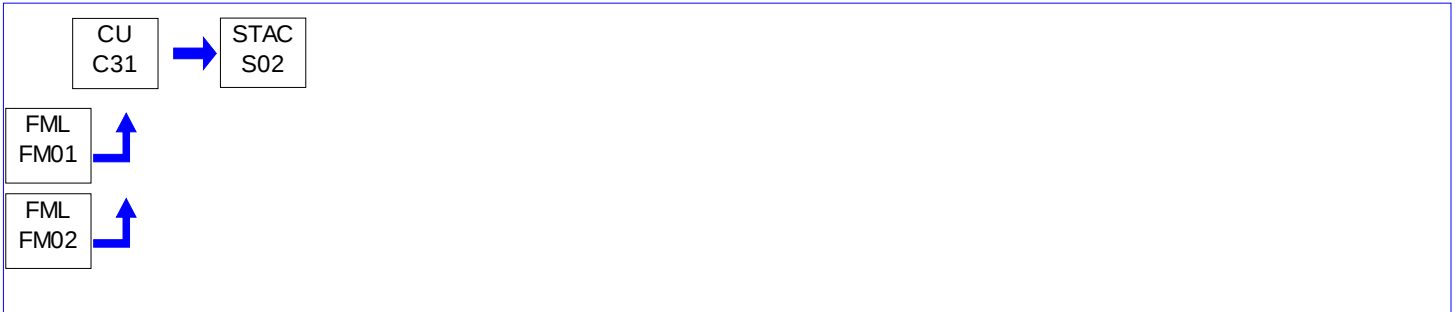
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SECTION D. Source Level Requirements

Source ID: C31

Source Name: CLEAVER BROOKS BOILER 2

Source Capacity/Throughput:	25.100	MMBTU/HR	
	182.500	Gal/HR	#2 Oil
	25.100	MCF/HR	Natural Gas



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.11]

Combustion units

The permittee may not permit the emission into the outdoor atmosphere of particulate matter from this combustion unit in excess of 0.4 pounds per million Btu of heat input, pursuant to 25 Pa. Code § 123.11(a)(1).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall limit the emissions of NO_x (Nitrogen Oxides) from boilers C30 and C31 (combined total) to less than 32.10 tons per year (on a 12 month rolling sum).

(b) The permittee shall limit the emissions of VOCs (Volatile Organic Compounds) from boilers C30 and C31 (combined total) to less than 0.62 tons per year (on a 12 month rolling sum).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from any combustion unit, in the Southeast Air Basin, in excess of 1.2 pounds per million Btu of heat input, pursuant to 25 Pa. Code § 123.22(e)(1).

004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.42c]

Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Standard for sulfur dioxide.

The permittee shall not cause to be discharged into the atmosphere any gases that contain SO₂ in excess of 0.50 lb/MMBtu heat input from oil.

[Compliance with the SO₂ standard above, assures compliance with the requirements of 25 Pa. Code § 123.22(e)(1).]

Fuel Restriction(s).

005 [25 Pa. Code §123.22]

Combustion units

(a). No person may, at any time, offer for sale, deliver for use, exchange in trade or permit the use of commercial fuel oil for use in combustion units in the Southeast Pennsylvania air basin which contains sulfur in excess of 0.2% by weight, pursuant to 25 Pa. Code § 123.22(e)(2).

(b). Beginning July 1, 2016, the maximum sulfur content in commercial fuel oil shall not exceed 0.05% by weight, except as follows:

(i). Commercial fuel that was stored in this Commonwealth by the ultimate consumer prior to July 1, 2016, which met the applicable maximum sulfur content for commercial fuel oil through June 30, 2016, in paragraph (a) above at the time it was

SECTION D. Source Level Requirements

stored, may be used by the ultimate consumer in this Commonwealth on and after July 1, 2016.

(ii). Beginning July 1, 2016, the Department may temporarily suspend or increase the applicable maximum allowable sulfur content for a commercial fuel oil set forth in subparagraph (i) if the following occur:

(1) The Department receives a written request at the address specified in 25 Pa. Code § 123.22(h) for a suspension or increase on the basis that compliant commercial fuel oil is not reasonably available in the subject air basin. The request must include both of the following:

(A) The reason compliant commercial fuel oil is not reasonably available.

(B) The duration of time for which the suspension or increase is requested and the justification for the requested duration.

(2) The Department determines that an insufficient quantity of compliant commercial fuel oil is reasonably available in the air basin and that the circumstances leading to the insufficiency are due to events that could not have been reasonably foreseen or prevented and are not due to lack of prudent planning on the part of the transferor of the commercial fuel oil into or within the air basin.

(3) The Department approves the request, in writing, prior to the transferor distributing the noncompliant commercial fuel oil into or within the air basin.

(iii). The Department will limit a suspension or increase in the applicable maximum allowable sulfur content granted under subparagraph (b)(ii) to the shortest duration in which adequate supplies of compliant commercial fuel oil can be made reasonably available, but in no case longer than 60 days from the date the Department grants the suspension or increase.

[Compliance with the sulfur content requirements in this condition also demonstrates compliance with the applicable requirements of 25 Pa. Code § 123.22(e)(1).]

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall use only natural gas or No. 2 fuel oil for this boiler.

Throughput Restriction(s).

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the burning of No. 2 fuel oil in both boilers (C30 and C31) combined, to less than 1.68 MM gallons per year.

II. TESTING REQUIREMENTS.

008 [25 Pa. Code §139.16]

Sulfur in fuel oil.

(a) The following are applicable to tests for the analysis of commercial fuel oil:

(1) The fuel oil sample for chemical analysis shall be collected in a manner that provides a representative sample. Upon the request of a Department official, the person responsible for the operation of the source shall collect the sample employing the procedures and equipment specified in 25 Pa. Code § 139.4(10) (relating to references).

(2) Tests methods and procedures for the determination of sulfur shall be those specified in 25 Pa. Code § 139.4(12)--(15).

(3) Results shall be reported in accordance with the units specified in 25 Pa. Code § 123.22 (relating to combustion units).

(b) The requirements in subpart (a), above, shall be waived in the event that a delivery receipt from the supplier, showing the

SECTION D. Source Level Requirements

maximum percent sulfur in the fuel, is obtained each time a fuel oil delivery is made.

III. MONITORING REQUIREMENTS.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the following operating parameters on a daily basis:

- (a) The hours of operation, or the amount of fuel consumed.
- (b) The type of fuel consumed.

IV. RECORDKEEPING REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall calculate and record emissions of NO_x and VOCs from this source(s) on a monthly and 12-month rolling basis in order to demonstrate compliance with the emission limits.

011 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall maintain records of all fuel supplier certification receipts each time a delivery is made. Fuel supplier certifications shall include the following information, for distillate oil:

- (1) The name of the oil supplier.
- (2) A statement from the oil supplier that the oil complies with the specification under the definition of distillate oil in 40 CFR § 60.41c.
- (3) The sulfur content or maximum sulfur content of the oil.

In the event that a delivery is made, and no receipt is obtained, the permittee shall perform testing in accordance with Condition #007, of this source and maintain records of this testing.

012 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall maintain records of the following on a monthly basis:

- (a) The type and amount of fuel used
- (b) The hours of operation

[Compliance with this condition assures compliance with 40 CFR § 60.48c(g)(2).]

V. REPORTING REQUIREMENTS.**# 013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]****Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

- (a) The permittee shall submit semi-annual reports in accordance with 40 CFR §§ 60.48c(d) and 60.48c(e)(11).
- (b) The report shall be postmarked by the 30th day following the end of the reporting period.
- (c) Pursuant to 40 CFR § 60.4, the permittee shall submit copies of all requests, reports, applications, submittals and other communications to both EPA and the appropriate regional office as indicated in Section B.

SECTION D. Source Level Requirements

VI. WORK PRACTICE REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall perform an annual boiler tune-up in accordance with the following conditions.

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

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

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

(4) Each adjustment conducted shall be recorded in a permanently bound log book or other method approved by the Department.

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

(b) The annual adjustment shall be made in accordance with the EPA document "Combustion Efficiency Optimization Manual for Operators of Oil and Gas-fired Boilers", September 1983 (EPA-340/1-83-023) or equivalent procedures approved in writing by the Department.

VII. ADDITIONAL REQUIREMENTS.

015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11195]

SUBPART JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources

Are any boilers not subject to this subpart?

As specified in 40 CFR § 63.11195(e), the affected boilers under this source identification shall not be subject to the requirements of Subpart JJJJJJ if it meets the definition of a Gas-fired boiler under 40 CFR § 63.11237.

A Gas-fired boiler is defined as any boiler that burns gaseous fuels not combined with any solid fuels, burns liquid fuel only during periods of gas curtailment, gas supply emergencies, or for periodic testing that does not exceed 48 hours during any calendar year.

Should the permittee operate these boilers in contrary to this definition, the boilers shall be subject to the requirements of the NESHAPS/MACT Subpart JJJJJJ.

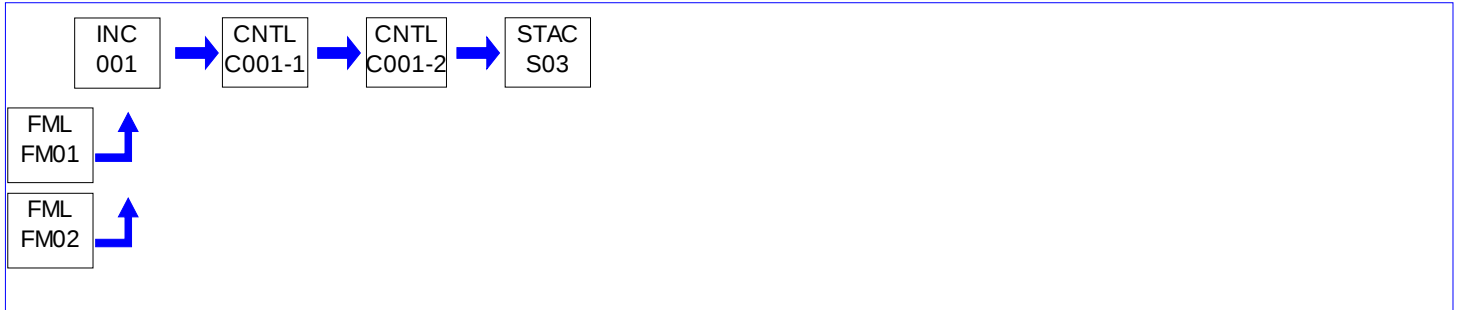
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 001

Source Name: HAZARDOUS WASTE INCINERATOR

Source Capacity/Throughput:	60.710 Gal/HR	#2 Oil
	8,500.000 CF/HR	Natural Gas
	6,716.000 Lbs/HR	LIQUID WASTE



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.35]

Maximum achievable control technology standards for hazardous air pollutants.

[Additional authority for this permit condition is also derived from 40 CFR §§63.1206 and 63.1219 and 25 Pa. Code § 127.35]

(a) The permittee must not discharge or cause combustion gases to be emitted into the atmosphere that contain:

- (1) For dioxins and furans: Emissions in excess of 0.40 ng TEQ/dscm, corrected to 7 percent oxygen, for incinerators not equipped with either a waste heat boiler or dry air pollution control system.
- (2) Mercury in excess of 130 µgm/dscm, corrected to 7 percent oxygen.
- (3) Cadmium and lead in excess of 230 µgm/dscm, combined emissions, corrected to 7 percent oxygen.
- (4) Arsenic, beryllium, and chromium in excess of 92 µgm/dscm, combined emissions, corrected to 7 percent oxygen.
- (5) Carbon monoxide in excess of 100 parts per million by volume, over an hourly rolling average monitored continuously with a continuous emissions monitoring system), dry basis and corrected to 7 percent oxygen. The permittee must also document that, during the destruction and removal efficiency (DRE) test runs or their equivalent as provided by §63.1206(b)(7), hydrocarbons do not exceed 10 parts per million by volume during those runs, over an hourly rolling average (monitored continuously with a continuous emissions monitoring system), dry basis, corrected to 7 percent oxygen, and reported as propane;
- (6) Hydrogen chloride and chlorine gas (total chlorine) in excess of 32 parts per million by volume, combined emissions, expressed as a chloride (Cl(-)) equivalent, dry basis and corrected to 7 percent oxygen; and
- (7) Particulate matter in excess of 0.03 gr/corrected to 7 percent oxygen; or alternative to the particulate matter standards as per 40 CFR §63.1219(e)(2):
 - (i) Low volatile metals (cadmium, lead, and selenium) in excess of 230 µgm/dscm, combined emissions, corrected to 7 percent oxygen; and
 - (ii) Semi volatile metals (antimony, arsenic, beryllium, chromium, cobalt, manganese, and nickel) in excess of 92 µgm/dscm. combined emissions, corrected to 7 percent oxygen.

(b) The emission standards and operating requirements set forth in 40 CFR §63.1219(a) apply at all times except:

- (1) During periods of startup, shutdown, and malfunction; and

SECTION D. Source Level Requirements

(2) When hazardous waste is not in the combustion chamber (i.e., the hazardous waste feed to the combustor has been cut off for a period of time not less than the hazardous waste residence time) and you have documented in the operating record that you are complying with all otherwise applicable requirements and standards promulgated under authority of sections 112 or 129 of the Clean Air Act in lieu of the emission standards under §63.1219; the monitoring and compliance standards of this section and §§63.1207 through 63.1209.

(c) The emission limits provided by paragraphs (a) of this section are presented with two significant figures. Although you must perform intermediate calculations using at least three significant figures, you may round the resultant emission levels to two significant figures to document compliance, according to 40 CFR § 63.1219(d).

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

- a. Volatile Organic Compound (VOC) emissions from the incinerator shall not exceed 0.62 tons per year in a 12-month rolling sum.
- b. Nitrogen Oxide (NO_x) emissions from the incinerator shall not exceed 28.02 tons per year in a 12-month rolling sum.
- c. For the chronic non-cancer risk, the incinerator exhaust gas shall not contain following chemicals in excess of:
 - i. 3.98e-4 lb/hr elemental mercury
 - ii. 2.22e-5 lb/hr mercuric chloride

Fuel Restriction(s).**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall operate the primary burner on natural gas or No. 2 fuel oil.

Throughput Restriction(s).**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The incinerator shall not process more than 1,663 pounds of solvent waste per hour and/or 5,053 pounds of aqueous waste per hour.

Control Device Efficiencies Restriction(s).**# 005 [25 Pa. Code §127.35]****Maximum achievable control technology standards for hazardous air pollutants.**

[Additional authority for this permit condition is also derived from 40 CFR § 63.1219]

The permittee shall comply with the destruction and removal efficiency (DRE) standards of 40 CFR § 63.1219(c), as follows, according to 40 CFR § 63.1206(a)(1)(ii):

(a) The permittee shall achieve DRE of 99.99% for each principle organic hazardous constituent (POHC), acetonitrile and toluene, and calculate DRE for each POHC from the following equation:

$$\text{DRE} = [1 - (\text{Wout} / \text{Win})] \times 100\%$$

Where:

Win= mass feedrate of one POHC in a waste feedstream; and

Wout= mass emission rate of the same POHC present in exhaust emissions prior to release to the atmosphere.

(b) The permittee shall not burn the dioxin-listed hazardous wastes F020, F021, F022, F026, or F027 in its incinerator. To incinerate hazardous wastes F020, F021, F022, F026, or F027, the permittee shall obtain a Department issued Plan Approval before incinerating these waste types.

SECTION D. Source Level Requirements

II. TESTING REQUIREMENTS.

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1207]

Subpart EEE - National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors

What are the performance testing requirements?

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.35]

(a) The permittee shall conduct comprehensive performance tests to demonstrate compliance with the emission standards provided by 40 CFR 63 Subpart EEE, establish limits for the operating parameters provided by 40 CFR §63.1209, and demonstrate compliance with the performance specifications for continuous monitoring systems.

(b) The permittee shall conduct confirmatory performance test to:

i. Demonstrate compliance with the dioxin/furan emission standard when the source operates under normal operating conditions; and

ii. Conduct a performance evaluation of continuous monitoring systems required for compliance assurance with the dioxin/furan emission standard under 40 CFR §63.1209(k).

(c) The permittee shall commence comprehensive performance testing no later than 61 months after the date of commencing the previous comprehensive performance test used to show compliance with 40 CFR §63.1219.

(d) The permittee shall commence confirmatory performance testing no later than 31 months after the date of commencing the previous comprehensive performance test used to show compliance with 40 CFR §63.1219.

(e) Comprehensive performance test

i. The permittee shall submit to the Department a notification of the intention to conduct a comprehensive performance test and CMS performance evaluation and a site-specific test plan and CMS performance evaluation test plan at least one year before the performance test and performance evaluation are scheduled to begin.

ii. The permittee shall submit to the Department a notification of the intention to conduct the comprehensive performance test at least 60 calendar days before the test is scheduled to begin.

(f) Confirmatory performance test

The permittee shall submit to the Department a notification of the intention to conduct a confirmatory performance test and CMS performance evaluation and a site-specific test plan and CMS performance evaluation test plan at least 60 calendar days before the performance test is scheduled to begin.

(g) The permittee shall make the site-specific test plan and CMS performance evaluation test plan available to the public for review no later than 60 calendar days before initiation of the test. The permittee shall issue a public notice to all persons on the facility public mailing list announcing the availability of the test plans and the location where the test plans are available for review. The test plans shall be accessible to the public for 60 calendar days, beginning on the date that the public notice is issued. The location shall be unrestricted and provide access to the public during reasonable hours and provide a means for the public to obtain copies. The notification shall include the following information at a minimum:

- i. The name and telephone number of the source's contact person;
- ii. The name and telephone number of the Department contact person;
- iii. The location where the test plans and any necessary supporting documentation can be reviewed and copied;
- iv. The time period for which the test plans will be available for public review; and
- v. An expected time period for commencement and completion of the performance test and CMS performance evaluation test.

(h) The permittee shall comply with the content of performance test plan in accordance with 40 CFR §§63.7(c)(2)(i) - (iii) and (v) and 63.1207(f).

SECTION D. Source Level Requirements

(i) The permittee shall comply with operating conditions during testing and subsequent testing in accordance with 40 CFR §§63.7(e) and 63.1207(g) and (h).

(j) Within 90 days of completion of a comprehensive performance test, the permittee shall postmark a Notification of Compliance documenting compliance with the emission standards and continuous monitoring system requirements, and identifying operating parameter limits under 40 CFR §63.1209. Upon postmark of the notification of compliance, the permittee shall comply with all operating requirements specified in the Notification of Compliance in lieu of the limits specified in the Documentation of Compliance required under 40 CFR §63.1211(c).

(k) Within 90 days of completion of a confirmatory performance test, the permittee shall postmark a Notification of Compliance documenting compliance or noncompliance with the applicable dioxin/furan emission standard.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1208]

Subpart EEE - National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors What are the test methods?

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.35]

The permittee shall use the test methods specified in 40 CFR §63.1208(b) to determine compliance with the emissions standards of 40 CFR 63 Subpart EEE.

III. MONITORING REQUIREMENTS.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1209]

Subpart EEE - National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors What are the monitoring requirements?

(a) (1) The permittee shall use the Department certified carbon monoxide (CO) CEMS to demonstrate and monitor compliance with the CO and hydrocarbon standard under 40 CFR Part 63 Subpart EEE. The permittee shall also use the Department certified oxygen CEMS to continuously correct CO level to 7 percent oxygen.

(2) Performance specifications. The permittee shall calibrate, maintain, and continuously operate the CEMS in compliance with the quality assurance procedures provided in the appendix to 40 CFR 63 Subpart EEE and Performance Specifications 4B (carbon monoxide and oxygen) in appendix B, of 40 CFR part 60.

(b) Continuous monitoring systems (CMS).

(1) The permittee shall use the Department approved CMS or methods to monitor and record the following operating parameters:

- i. The combustion chamber temperature (°F)
- ii. The hazardous waste feed stream flowrate (Pounds per Hour (pph))
- iii. The combustion zone leaks
- iv. The combustion air flowrate (scfm)
- v. The total mercury feedrate (pph)
- vi. The scrubber water flowrate (gpm)
- vii. The pressure drop across the scrubber (in. of w.c.)
- viii. The blowdown rate (gpm)
- ix. The scrubber pH tank level (%)
- x. The ash feedrate (pph) for both low ash and high ash
- xi. The semivolatile metals (SVM) (Pb, Cd) feedrate (pph) for both low ash and high ash
- xii. The low volatile metal (LVM) (As, Be, Cr) feedrate (pph) for both low ash and high ash
- xiii. The WESP specific power (W/scfm)
- xiv. The total chlorine/chloride feedrate (pph) for both low ash and high ash
- xv. The scrubber water pH

(2) The permittee shall operate the CMS in conformance with §63.8(c)(3) that requires, at a minimum, to comply with the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system.

SECTION D. Source Level Requirements

- (3) The CMS must sample the operating parameters without interruption, and evaluate the detector response at least once each 15 seconds, and compute and record the average values at least every 60 seconds.
- (4) The span of the non-CEMS CMS detector shall not be exceeded. The permittee shall interlock the span limits into the automatic waste feed cutoff (AWFCO) system required by 40 CFR §63.1206(c)(3).
- (5) The permittee shall comply with the calculation of rolling averages in accordance with 40 CFR §63.1209(b)(5).
- (c) The permittee shall comply with the waste feedrate limits and monitor and record feedrate as follows:
- i. Determine and record the value of the parameter for each feedstream by sampling and analysis in accordance with the Feedstream Analysis Plan as approved by the Department;
 - ii. Determine and record the mass flowrate of each feedstream by a CMS.
 - iii. Calculate and record the mass feedrate in pounds per hour.
- (d) The requirements of 40 CFR §§63.8(d) (Quality control program) and (e) (Performance evaluation of continuous monitoring system) apply, except that the permittee shall conduct performance evaluations of components of the CMS under the frequency and procedures applicable to performance tests as provided in 40 CFR §63.1207.
- (e) The permittee shall comply with the quality assurance procedures for CEMS prescribed in the appendix of 40 CFR 63 Subpart EEE.
- (f) The permittee shall conduct monitoring in accordance with 40 CFR §§63.8(b) and 63.1209(e).
- (g) The permittee shall comply with 40 CFR §§63.8(c) and 63.1209(f) for operation and maintenance of continuous monitoring systems.

IV. RECORDKEEPING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR Part 63 Subpart EEE and 25 Pa. Code Sections 139.101(5) and 139.111.]

- (a) The permittee shall comply with the recordkeeping requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), the Record Keeping and Reporting requirements in the Department's Continuous Source Monitoring Manual, Revision No. 6, 274-0300-001, and the recordkeeping requirements established in 40 CFR Part 63 Subpart EEE.
- (b) Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record and maintain the following records when the incinerator is operating:

- (a) Combustion chamber temperature (°F), one-hour rolling average
- (b) Combustion air flowrate (scfm), one-hourly rolling average
- (c) Hazardous waste feedrate (pph), one-hourly rolling average
- (d) Total mercury feedrate (pph), 12-hour rolling average
- (e) Scrubber water flowrate (gpm), one-hourly rolling average
- (f) Pressure drop across the scrubber (in. w.c.), one-hourly rolling average
- (g) Blowdown rate (gpm), one-hourly rolling average
- (h) Scrubber pH tank level (%), one-hourly rolling average
- (i) Ash feedrate (pph), 12-hour rolling average

SECTION D. Source Level Requirements

- (j) Semivolatile metals (SVM) (Pb, Cd) feedrate (pph), 12-hour rolling average
- (k) Low volatile metals (LVM) (As, Be, Cr) feedrate (pph), 12-hour rolling average
- (l) WESP specific power (W/scfm), one-hour rolling average
- (m) Total chlorine/chloride feedrate (pph), 12-hour rolling average
- (n) Scrubber water pH, one-hourly rolling average
- (o) Combustion system leaks inspection, daily

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of NO_x and VOCs emissions from this source(s) on monthly basis and 12-month rolling sum.

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1211]

Subpart EEE - National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors

What are the recordkeeping and reporting requirements?

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.35]

The permittee shall maintain the following records, according to 40 CFR § 63.1211(b):

- (a) 40 CFR §§63.1200, 63.10(b) and (c) General. Information required to document and maintain compliance with the regulations of Subpart EEE, including data recorded by continuous monitoring systems (CMS), and copies of all notifications, reports, plans, and other documents submitted to the Administrator.
- (b) 40 CFR § 63.1206(b)(1)(ii) If you elect to comply with all applicable requirements and standards promulgated under authority of the Clean Air Act, including Sections 112 and 129, in lieu of the requirements of Subpart EEE when not burning hazardous waste, you must document in the operating record that you are in compliance with those requirements.
- (c) 40 CFR § 63.1206(b)(5)(ii) Documentation that a change will not adversely affect compliance with the emission standards or operating requirements.
- (d) 40 CFR § 63.1206(b)(11) Calculation of hazardous waste residence time.
- (e) 40 CFR § 63.1206(c)(2) Startup, shutdown, and malfunction plan.
- (f) 40 CFR § 63.1206(c)(2)(v)(A) Documentation of your investigation and evaluation of excessive exceedances during malfunctions.
- (g) 40 CFR § 63.1206(c)(3)(v) Corrective measures for any automatic waste feed cutoff that results in an exceedance of an emission standard or operating parameter limit.
- (h) 40 CFR § 63.1206(c)(3)(vi) Documentation and results of the automatic waste feed cutoff operability testing.
- (i) 40 CFR § 63.1206(c)(4)(ii) Emergency safety vent operating plan.
- (j) 40 CFR § 63.1206(c)(4)(iii) Corrective measures for any emergency safety vent opening.
- (k) 40 CFR § 63.1206(c)(5)(ii) Method used for control of combustion system leaks.
- (l) 40 CFR § 63.1206(c)(6) Operator training and certification program.
- (m) 40 CFR § 63.1206(c)(7)(i)(D) Operation and maintenance plan.
- (n) 40 CFR § 63.1209(c)(2) Feedstream analysis plan.
- (o) 40 CFR § 63.1209(q) Documentation of changes in modes of operation.
- (p) 40 CFR § 63.1211(c) Documentation of compliance.

V. REPORTING REQUIREMENTS.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR Part 63 Subpart EEE and 25 Pa. Code Sections 139.101(5) and 139.111.]

- (a) The permittee shall submit quarterly reports of continuous emission monitoring to the Department in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources), the Record Keeping and Reporting requirements as established in the Department's Continuous Source Monitoring Manual, Revision No. 6, 274-0300-001, and the reporting requirements established in 40 CFR Part 63 Subpart EEE.

SECTION D. Source Level Requirements

- (b) The permittee shall report emissions for all periods of unit operation, including startup, shutdown and malfunction.
- (c) Initial quarterly reports following system certification shall be submitted to the Department within 35 days following the date upon which the Department notifies the owner or operator, in writing, of the approval of the continuous source monitoring system for use in determining compliance with applicable emission standards.
- (d) Subsequent quarterly reports shall be submitted to the Department within 30 days after the end of each calendar quarter.
- (e) Failure to submit required reports of continuous emission monitoring within the time periods specified in this Condition, shall constitute violations of this Permit, unless approved in advance by the Department in writing.
- (f) Compliance with any subsequently issued revision to the Continuous Source Monitoring Manual will constitute compliance with this permit condition.

014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1211]

Subpart EEE - National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors What are the recordkeeping and reporting requirements?

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.35]

The permittee shall submit the following reports to the USEPA and the Department, according to 40 CFR § 63.1211(a):

- (a) 40 CFR § 63.10(d)(5)(i) Periodic startup, shutdown, and malfunction reports.
- (b) 40 CFR § 63.10(d)(5)(ii) Immediate startup, shutdown, and malfunction reports.
- (c) 40 CFR § 63.10(e)(3) Excessive emissions and continuous monitoring system performance report and summary report.
- (d) 40 CFR § 63.1206(c)(2)(ii)(B) Startup, shutdown, and malfunction plan.
- (e) 40 CFR § 63.1206(c)(3)(vi) Excessive exceedances reports.
- (f) 40 CFR § 63.1206(c)(4)(iv) Emergency safety vent opening reports.

VI. WORK PRACTICE REQUIREMENTS.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR Part 63 Subpart EEE and 25 Pa. Code Sections 139.101(5) and 139.111.]

(a) Continuous Emission Monitoring Systems and components must be operated and maintained in accordance with the requirements established in 25 Pa. Code Chapter 139, Subchapter C (relating to requirements for source monitoring for stationary sources) and the Quality Assurance requirements in the Department's Continuous Source Monitoring Manual, Revision No. 6, 274-0300-001.

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

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The combustor and its associated air cleaning devices shall be operated and maintained in accordance with the manufacturers' specifications, and good air pollution control practices.

(b) The permittee shall inspect combustion system leaks on a daily basis, and shutdown the incinerator when a leak is detected.

017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1206]

Subpart EEE - National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors When and how must you comply with the standards and operating requirements?

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.35]

SECTION D. Source Level Requirements

(a) The permittee shall operate under the operating requirements specified in the Notification of Compliance under 40 CFR §63.1207(j), according to 40 CFR § 63.1206(c)(1).

(b) The permittee shall comply with the start-up, shutdown, and malfunction plan requirements of 40 CFR § 63.6(e)(3), according to 40 CFR § 63.1206(c)(2)(i).

(c) The permittee shall operate this incinerator with a functioning system that immediately and automatically cuts off the hazardous waste feed according to 40 CFR §63.1206(c)(3):

(A) When any of the following are exceeded:

- i. Minimum combustion chamber temperature of 1,939°F, one-hour rolling average
- ii. Maximum flue gas flowrate of 5,415 scfm, on a hourly rolling average basis
- iii. Maximum hazardous waste feedrate, on a hourly rolling average basis:
 - 1,663pph solvent
 - 5,053pph aqueous
- iv. Maximum total mercury feedrate of 0.0003pph, 12-hour rolling average
- v. Minimum scrubber water flowrate of 67 gpm, on an hourly rolling average
- vi. Minimum pressure drop across the scrubber of 90 in. w.c. on an hourly rolling average
- vii. Minimum blowdown rate of 14 gpm, on an hourly rolling average
- viii. Minimum scrubber tank volume of 35%, on an hourly rolling average
- ix. Maximum ash feedrate of 311 pph, as a 12-hour rolling average
- x. Maximum semivolatile metals (SVM) (lead and cadmium) feedrate of 0.006pph 12-hour rolling average
- xi. Maximum low volatile metals (arsenic, beryllium, and chromium) feed rate of 0.11pph, 12-hour rolling average
- xii. Minimum WESP specific power of 1.8 W/scfm, one-hour average
- xiii. Maximum total chlorine/chloride feedrate of 120pph, 12-hour rolling average
- xiv. Minimum scrubber water pH of 5.2, on an hourly rolling average, and
- xv. Carbon monoxide (CO) emission standard monitored by CO CEMS.

As per 40 C.F.R. 63.1207(j), upon completion of subsequent CPTs and postmark of the associated NOC, the permittee shall comply with the operating limits in the NOC if they are more stringent than the limits contained in this permit.

(B) When the span value of any CMS detector, except a CEMS, is met or exceeded;

(C) Upon malfunction of a CMS monitoring an operating parameter limit specified under 40 CFR §63.1209 or an emission level; or

(D) When any component of the automatic waste feed cutoff (AWFCO) system fails.

(d) The permittee shall immediately cut off the hazardous waste feed and shutdown the incinerator when leaks from the combustion zone are detected.

(e) During an AWFCO or due to the AWFCO system failure, the permittee shall follow the procedures and requirements specified in 40 CFR §63.1206(c)(3)(ii) through (vii).

(f) The permittee shall comply with the requirements of the emergency safety vent (ESV) openings under 40 CFR §63.1206(c)(4).

(g) The permittee shall control combustion system leaks of hazardous air pollutants by keeping the combustion zone sealed to prevent such leaks, according to 40 CFR § 63.1206(c)(5)(i)(A) and (ii).

(h) The permittee shall comply with operator training and certification requirements according to 40 CFR § 63.1206(c)(6).

i. Establish training programs for all categories of personnel whose activities may reasonably be expected to directly affect emissions of hazardous air pollutants from the source. Such persons include, but are not limited to, chief facility operators, control room operators, continuous monitoring system operators, persons that sample and analyze feedstreams, persons

SECTION D. Source Level Requirements

that manage and charge feedstreams to the combustor, persons that operate emission control devices, and ash and waste handlers. Each training program shall be of a technical level commensurate with the person's job duties specified in the training manual. Each commensurate training program shall require an examination to be administered by the instructor at the end of the training course. Passing of this test shall be deemed the "certification" for personnel, except that, for control room operators, the training and certification program shall be as specified in 40 CFR §63.1206(c)(6)(iii), (v), and (vi).

ii. The permittee shall ensure that the source is operated and maintained at all times by persons who are trained and certified to perform these and any other duties that may affect emissions of hazardous air pollutants. A certified control room operator must be on duty at the site at all times the source is in operation.

iii. Hazardous waste incinerator control room operators shall be trained and certified in accordance with 40 CFR §63.1206(c)(6)(iii).

iv. Control room operators shall complete an annual review or refresher course covering, at a minimum, the following:

- (A) Update of regulations;
- (B) Combustor operation, including startup and shutdown procedures, waste firing, and residue handling;
- (C) Inspection and maintenance;
- (D) Responses to malfunctions or conditions that may lead to malfunctions; and
- (E) Operating problems encountered by the operator.

(i) The permittee shall prepare and operate according to the operation and maintenance plan that describes in detail procedures for operation, inspection, maintenance, and corrective measures for all components of the incinerator, including associated pollution control equipment, that could affect emissions of regulated hazardous air pollutants, according to 40 CFR § 63.1206(c)(7).

018 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1209]

Subpart EEE - National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors
What are the monitoring requirements?

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.35]

The permittee shall remain compliant with the requirements specified in 40 CFR §63.1209 by complying with the following operating limits at all times that hazardous waste remains in the combustion chamber:

- i. Minimum combustion chamber temperature of 1,939°F, one-hour rolling average
- ii. Maximum flue gas flowrate of 5,415 scfm, on a hourly rolling average basis
- iii. Maximum hazardous waste feedrate, on a hourly rolling average basis:
 - 1,663pph solvent
 - 5,053pph aqueous
- iv. Maximum total mercury feedrate of 0.0003pph, 12-hour rolling average
- v. Minimum scrubber water flowrate of 67 gpm, on an hourly rolling average
- vi. Minimum pressure drop across the scrubber of 90 in. w.c. on an hourly rolling average
- vii. Minimum blowdown rate of 14 gpm, on an hourly rolling average
- viii. Minimum scrubber tank volume of 35%, on an hourly rolling average
- ix. Maximum ash feedrate of 311 pph, as a 12-hour rolling average
- x. Maximum semivolatile metals (SVM) (lead and cadmium) feedrate of 0.006pph 12-hour rolling average
- xi. Maximum low volatile metals (arsenic, beryllium, and chromium) feed rate of 0.11pph, 12-hour rolling average
- xii. Minimum WESP specific power of 1.8 W/scfm, one-hour average
- xiii. Maximum total chlorine/chloride feedrate of 120pph, 12-hour rolling average
- xiv. Minimum scrubber water pH of 5.2, on an hourly rolling average

As per 40 C.F.R. 63.1207(j), upon completion of subsequent CPTs and postmark of the associated NOC, the permittee shall comply with the operating limits in the NOC if they are more stringent than the limits contained in this permit.

019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1209]

SECTION D. Source Level Requirements**Subpart EEE - National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors**
What are the monitoring requirements?

- a. Prior to feeding the material, the permittee shall obtain an analysis of each feedstream that is sufficient to document compliance with the applicable feedrate limits provided by this section.
- b. Feedstream analysis plan. The permittee shall implement the feedstream analysis plan as necessary and record it in the operating record. The plan must specify at a minimum:
- (i) The parameters for which you will analyze each feedstream to ensure compliance with the operating parameter limits of this section;
 - (ii) Whether you will obtain the analysis by performing sampling and analysis or by other methods, such as using analytical information obtained from others or using other published or documented data or information;
 - (iii) How you will use the analysis to document compliance with applicable feedrate limits (e.g., if you blend hazardous wastes and obtain analyses of the wastes prior to blending but not of the blended, as-fired, waste, the plan must describe how you will determine the pertinent parameters of the blended waste);
 - (iv) The test methods which you will use to obtain the analyses;
 - (v) The sampling method which you will use to obtain a representative sample of each feedstream to be analyzed using sampling methods described in appendix IX, part 266 of 40 CFR, or an equivalent method; and
 - (vi) The frequency with which you will review or repeat the initial analysis of the feedstream to ensure that the analysis is accurate and up to date.

VII. ADDITIONAL REQUIREMENTS.**# 020 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR § 63.1200].

Source ID 001 is subject to Subpart EEE of the National Emission Standards for Hazardous Air Pollutants and shall comply with all applicable requirements of this Subpart. 40 CFR Section 63.13 requires submission of copies of all requests, reports, applications, submittals, and other communications to both EPA and the Department. The EPA copies shall be forwarded to the address specified in Section B of this Title V Operating Permit.

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

Within 60 days after each performance test report submitted to the Department, the permittee shall compare the multi-pathway risk assessment values associated with the arithmetically determined plausible maximum annual average emission rates of the chemicals of potential concern (COPC) used in the chronic risk assessment for Conditions 1 and 2 as provided by the permittee based on June 2004 and May 2005 stack tests. These emission rates will use the average of all available actual emission rates. These risk assessment results will be compared with the acceptable risk levels of cancer risk of 1 in 100,000 and the non-cancer hazard index of 0.25. If the risk levels arising from the arithmetically determined plausible maximum annual average emission rates of the COPC used in chronic risk assessment exceed the acceptable risk levels then a compliance plan shall be submitted to the Department for approval within 30 days.

022 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1206]**Subpart EEE - National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors**
When and how must you comply with the standards and operating requirements?

The permittee shall comply with all the requirements specified in 40 CFR §63.1206(b)(5) for any changes in design, operation, or maintenance.

023 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1210]

SECTION D. Source Level Requirements**Subpart EEE - National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors**
What are the notification requirements?

The permittee shall comply with all the applicable notification requirements specified in 40 CFR §63.1210.

024 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1214]**Subpart EEE - National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors**
Implementation and enforcement.

The authorities contained below are retained by the Administrator of U.S. EPA and cannot be transferred to the State, local, or Tribal agency. The permittee shall obtain the following approvals from the US EPA when needed:

- (1) Approval of alternatives to requirements in 40 CFR §§63.1200, 63.1203 through 63.1205, 63.1206(a), and 63.1219.
- (2) Approval of major alternatives to test methods under 40 CFR §§63.7(e)(2)(ii) and (f), 63.1208(b), and 63.1209(a)(1), as defined in §63.90, and as required in this subpart.
- (3) Approval of major alternatives to monitoring under 40 CFR §63.8(f) and 63.1209(a)(5), as defined in 40 CFR §63.90, and as required in this subpart.
- (4) Approval of major alternatives to recordkeeping and reporting under 40 CFR §63.10(f), and 63.1211(a) through (c), as defined in 40 CFR §63.90, and as required in this subpart.

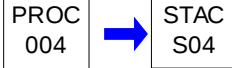
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 004

Source Name: DUST COLLECTION SYSTEMS

Source Capacity/Throughput:



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 from any of the individual Source ID 004 dust collectors (fabric filters) in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the combined Source ID 004 volatile organic compound (VOC) emissions to less than 2.50 tons per year 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 (Title V General Requirements).

III. MONITORING REQUIREMENTS.

003 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall monitor the pressure differential across each of the Source ID 004 dust collectors (fabric filters). At a minimum, these readings shall be taken once per week while each dust collector is operating.

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall maintain records of the readings of the dust collectors' pressure differentials referenced in Condition #003, above, when operating.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall operate the Source ID 004 dust collectors (fabric filters) whenever any of their respective sources are operating.

(b) The permittee shall operate and maintain the sources and control equipment consistent with good engineering and air pollution control practices.

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

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The following serves as a source description for Source ID 004:

1. The PM generated by Room H-1298 is controlled by Dust Collector DC-129.
2. The PM generated by Room H-1188 and Dryer D-1250 is controlled by Dust Collector DC-1750.
3. The PM generated by Dryer D-1380 is controlled by Dust Collector DC-1380.
4. The PM generated by Dryers D-4180, D-4280, and D-4380 is controlled by Dust Collector DC-4000.
5. The PM generated by the Pre-packing Room is controlled by Dust Collector DC-Prepack Room.

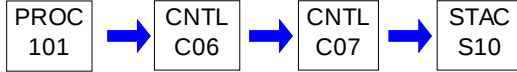
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 101

Source Name: RAW MATERIAL & WASTE STORAGE TANKS

Source Capacity/Throughput:



This source occurs in alternate operation RAW MATERIAL & WASTE STORAGE TANKS

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit VOC emissions from the following storage tanks combined to less than 3.70 tons per year during any consecutive 12-month period: V-302, V-305, V-308, V-309, V-310, V-311, V-312, V-316, V-318, V-320, V-321, V-322, V-323, V-324, V-510, V-511, V-512, V-514, V-515, V-516, V-517, V-519, V-520, V-521, V-593, and V-596.

Control Device Efficiencies Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain a pressure drop range of ≥ 2 inches water guage for the scrubber associated with this source.

(b) The permittee shall maintain a pH of a minimum of 7 for the scrubbing solution of the scrubbing system associated with this source.

(c) The permittee shall maintain a combustion chamber outlet temperature for the thermal oxidizer associated with this source above 1,500°F.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the throughput and type of material stored for each tank on a weekly basis.

004 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.3]

Sections of PART 64

Monitoring design criteria

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441]

(a) The permittee shall continuously monitor the pressure drop and the pH of the scrubbing solution of the scrubbing system, using the PLC System.

(b) The permittee shall continuously monitor the exhaust temperature of the oxidizer, using thermocouples.

(c) The permittee shall perform daily observations of the oxidizer and annual preventative maintenance inspections of the oxidizer.

SECTION D. Source Level Requirements

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall calculate and record the emissions of VOCs from this source on a monthly and 12-month rolling basis in order to demonstrate compliance with the emission limit.
- (b) The permittee shall maintain records of the type of stored materials, throughput, and vapor pressure of each material stored in each Source ID 101 storage tank.

006 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.9]

Sections of PART 64

Reporting and recordkeeping requirements

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441]

- (a) The permittee shall record all excursions and corrective actions taken in response to an excursion and the time elapsed until the corrective actions have been taken.
- (b) The permittee shall record all inspections, repairs, and maintenance performed on the monitoring equipment associated with this source.
- (c) The permittee shall maintain records of all monitoring downtime incidents. The permittee shall also record the dates, times and durations, possible causes and corrective actions taken for the incidents.

007 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.9]

Sections of PART 64

Reporting and recordkeeping requirements

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441]

- (a) The permittee shall continuously record the pressure drop and the pH of the scrubbing solution of the scrubbing system, using the PLC System.
- (b) The permittee shall continuously record the combustion chamber outlet temperature, using a recording chart or equivalent electronic system. The permittee shall record preventative maintenance procedures daily using a chart or daily log or equivalent electronic system.

V. REPORTING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

A by-pass or malfunction of the thermal oxidizer (C06) and/or the vertical up-flow packed tower (C07) shall be reported to the Department as follows:

- (1) Verbal notification shall be made to the Department within 1-hour of becoming aware that VOC emissions during the bypass exceeded one of the following criteria:
- (i) more than 33 pounds per day of VOCs were emitted during all bypasses during a single calendar day if VOC emissions from the process (before condensers) were less than 220 pounds per day, or
 - (ii) VOC emissions were reduced by less than 90% during all bypass during a single calendar day if VOC emissions from the process (before condensers) were 220 pounds per day or more.
- (2) Written notice to the Department of the by-pass shall be made within 2 business days if VOC emissions from the bypass met either of the criteria in Condition (1).
- (3) A quarterly report shall be prepared and submitted to the Department by the 30th day following the end of the quarter that contains a summary of all bypasses that occurred during the quarter.

SECTION D. Source Level Requirements

(4) The recordkeeping and quarterly reports shall be submitted in the format approved by the Department.

009 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.9]**Sections of PART 64****Reporting and recordkeeping requirements**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441 and 40 CFR § 70.6(a)(3)(iii)(A)]

(a) The permittee shall report all excursions and corrective actions taken, the dates, times, durations, and possible causes, every six (6) months.

(b) The permittee shall report all monitoring downtime incidents, the dates, times and durations, possible causes and corrective actions taken, every six (6) months.

(c) The required reports are due each year and must be submitted by October 1 for the period covering January 1 through June 30 and April 1 for the period covering July 1 through December 31 of the previous year.

VI. WORK PRACTICE REQUIREMENTS.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall vent all of Source ID 101 storage tanks to the thermal oxidizer (control device ID C06).

(b) The permittee may vent the Source ID 101 storage tanks to the atmosphere during periods of production inactivity. The permittee shall record the start and finish times when this mode of operation is in effect. VOC emissions during this operation mode shall not equal or exceed 2.7 tpy.

(c) For volatile organic compounds whose storage temperature is governed by ambient weather conditions, the vapor pressure under actual storage conditions shall be determined using a temperature which is representative of the average storage temperature for the hottest month of the year in which the storage takes place.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11497]**SUBPART VVVVVV - National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources****What are the standards and compliance requirements for storage tanks?**

All the storage tanks used for the storage of methylene chloride shall be operated in compliance with the requirements of 40 C.F.R. Part 63, Subpart VVVVVV.

012 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.3]**Sections of PART 64****Monitoring design criteria**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441]

(a) For the purposes of CAM, an excursion at the scrubber shall be defined as:

- (1) pressure drop readings < 2 w.g. during any 3-hour average period,
- (2) pH readings below 7 during any 3-hour average period.

(b) For the purposes of CAM, an excursion at the thermal oxidizer shall be defined as:

- (1) average hourly temperature readings less than 1500°F,
- (2) failure to perform daily flame observations for this source when the electronic fire eye is not operating.

(c) Operation of the scrubbing system and the thermal oxidizer in accordance with the above parameters shall provide reasonable assurance of compliance with the emission limitations.

SECTION D. Source Level Requirements

013 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.3]

Sections of PART 64

Monitoring design criteria

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441]

The permittee shall use quality assurance and control practices that are adequate to ensure the continuing validity of the data and proper performance of the control device associated with this source. The permittee shall consider manufacturer recommendations or requirements applicable to the monitoring in developing appropriate quality assurance and control practices. At a minimum:

(a) The permittee shall maintain gauges, meters, and thermocouples at locations approved by the Department for obtaining data that are representative of the monitored indicator.

(b) The permittee shall develop verification procedures to confirm the operational status of new or modified monitoring equipment prior to commencement of the monitoring process, such as compare pressure gauge at a controlled pressure to that of a pressure of a known accuracy.

(c) The permittee shall calibrate and check the accuracy of monitoring equipment, taking into account the manufacturer's specifications. Pressure drop gauges shall be calibrated annually, pH probe shall be calibrated monthly. The instrumentation and oxidizer thermocouples shall be calibrated annually.

014 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.3]

Sections of PART 64

Monitoring design criteria

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441]

The permittee shall maintain all monitoring equipment and stock parts necessary for routine repairs onsite.

015 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.3]

Sections of PART 64

Monitoring design criteria

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441]

The permittee shall ensure that at least 90% of the monitoring data has been properly and accurately collected.

016 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.3]

Sections of PART 64

Monitoring design criteria

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441]

(a) The permittee shall ensure that the oxidizer has reached its minimum operating temperature prior to placing any affected source on-line.

(b) The permittee shall ensure that the oxidizer will not exceed its maximum airflow capacity prior to routing the exhaust of any additional sources to it.

017 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.8]

Sections of PART 64

Quality improvement plan (QIP) requirements

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441]

(a) The permittee shall develop and implement a quality improvement plan (QIP) as expeditiously as practicable if any of the following occurs:

(1) For properly and accurately collected data, accumulated excursions exceed five percent (5%) of the data for particulates.

SECTION D. Source Level Requirements

- (2) Six excursions occur in a six-month reporting period.
- (3) The Department determines after review of all reported information that the permittee has not responded acceptably to an excursion.
- (b) In general, the QIP plan should be developed within 60 days and the permittee shall provide a copy of the QIP to the Department. Furthermore, the permittee shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.
- (c) The permittee shall record actions taken to implement a QIP during a reporting period and all related actions including, but not limited to inspections, repairs and maintenance performed on the monitoring equipment.
- (d) In accordance with 40 C.F.R. § 64.8, the QIP shall include procedures for evaluating the control performance problems. Based on the results of the evaluation procedures, the permittee shall modify the QIP, and provide a copy to the Department, to include procedures for conducting more frequent or improved monitoring in conjunction with one or more of the following:
 - (1) Improved preventive maintenance practices
 - (2) Process operation changes
 - (3) Appropriate improvements to control methods
 - (4) Other steps appropriate to correct performance.
- (e) Following implementation of a QIP, the Department will require reasonable revisions to the QIP if the plan has failed to either:
 - (1) Address the cause of the control device performance problem.
 - (2) Provide adequate procedures for correcting control device performance problems in as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (f) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under any federal, state, or local laws or any other applicable requirements under the Clean Air Act.

VII. ADDITIONAL REQUIREMENTS.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) Source ID 101 consists of the following storage tanks: V-302 (10,000 gal), V-305 (10,000 gal), V-308 (10,000 gal), V-309 (10,000 gal), V-310 (10,000 gal), V-311 (20,000 gal), V-312 (20,000 gal), V-316 (20,000 gal), V-318 (20,000 gal), V-320 (10,000 gal), V-321 (20,000 gal), V-322 (20,000 gal), V-323 (20,000 gal), V-324 (20,000 gal), V-510 (20,000 gal), V-511 (20,000 gal), V-512 (20,000 gal), V-514 (20,000 gal), V-515 (20,000 gal), V-516 (20,000 gal), V-517 (20,000 gal), V-519 (20,000 gal), V-520 (12,000 gal), V-521 (10,000 gal), V-593 (10,000 gal), and V-596 (20,000 gal).
300 Series tanks plus V-593 and V-596 are raw material storage tanks.
500 Series tanks, except for V-593 and V-596, are waste storage tanks.
- (b) Storage tanks V-321, V-322, V-323, and V-324 are subject to Subpart Kb of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. 40 CFR Section 60.4 requires submission of copies of all requests, reports, applications, submittals, and other communications to both the EPA and the Department. The EPA copies shall be forwarded to the address specified in Section B of this Title V Operating Permit.

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

SECTION D. Source Level Requirements

Source ID: 103

Source Name: WASTE SUMPS

Source Capacity/Throughput:

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The total VOC emissions from sumps S-5100 and S-5200 shall not exceed 2.60 tons per year on a twelve (12) month rolling basis.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the throughput of waste material on a weekly basis.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain weekly records of the throughputs of waste material(s) .

(b) The permittee shall calculate and record the emissions of VOCs on a monthly and 12-month rolling basis in order to demonstrate compliance with the emission limit.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of a covered and vented, stainless steel, double-walled sump equipped with a dividing baffle that creates two compartments, (Lonza ID No. S-5100 and S-5200), each having a capacity of approximately 700 gallons.

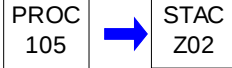
*** Permit Shield in Effect. ***

SECTION D. Source Level Requirements

Source ID: 105

Source Name: WASTEWATER TREATMENT

Source Capacity/Throughput:



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate the Wastewater Treatment Plant (Source ID 105) such that the volatile organic compound (VOC) emissions emitted into the atmosphere are less than the following:

- (a) 30.49 tons during any consecutive 12-month period; and
- (b) 6.96 pounds per hour.

II. TESTING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The total VOC concentration of the wastewater shall be sampled and tested on a weekly basis at the following four(4) locations:

- (i) In Storage Tank V-518;
- (ii) In Aerated Equalization Basins No. 525 and 526;
- (iii) In Aerated Equalization Basins No. V551 and 552.
- (iv) Final Effluent EF001.

VOC shall be determined as Total Organic Carbon (TOC) in accordance with Standard Methods for Sampling and Analysis of Wastewater.

III. MONITORING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor Source ID 105's weekly wastewater throughput.

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain the following records:

- (a) Source ID 105's weekly wastewater throughput.
- (b) The weekly total VOC concentration of the following Source ID 105 equipment including weekly sample results as required in condition # 002:
 - (i) In Storage Tank V-518.
 - (ii) In Aerated Equalization Basins No. 525 and 526.
 - (iii) In Aerated Equalization Basin No. V551 and 552.
 - (iv) Final Effluent EF001.
- (c) Monthly and 12-month rolling basis VOC emissions from Source ID 105.

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

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 105 consists of the following air contamination equipment:

- (a) 2-SBR Biological Treatment Tanks (V-600A and V-600B);
- (b) 2-Aerated Equalization Basins (No. 525 and 526);
- (c) 2-Effluent Aerated Equalization Basins (V-551 and V-552);
- (d) 1-Storage tank (V-518).

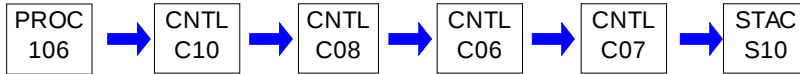
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 106

Source Name: MANUFACTURING PROCESSES

Source Capacity/Throughput:	20.000 MCF/HR	Natural Gas
	3,000.000 Gal/HR	#2 Oil
	400.000 Lbs/HR	VOC



This source occurs in alternate operation

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

The permittee may not permit the emission into the outdoor atmosphere of particulate matter from any process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

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

(a) The company shall limit the emissions of VOCs from Reactor Train 11/12, after control, to 0.90 tons, or less, in a 12-month rolling period.

(b) The company shall limit the emissions of VOCs due to equipment leaks from Reactor Train 11/12, to 4.62 tons, or less, in a 12-month rolling period.

(c) The company shall limit the emissions of VOCs from the four storage tanks associated with Reactor Train 11/12, to 1.02 tons, or less, in a 12-month period.

(d) The company shall limit the annual emissions from Reactor Train 11/12 to the maximum rates shown below:

Thionyl Chloride: 1.26 lb/hr and 252 lb/year.

Ammonia: 2.14 lb/hr and 428 lb/year.

Acid gas (as HCl): 0.32 lb/hr and 64 lb/year.

Hydrogen Cyanide: 0.03 lb/hr and 6 lb/year.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.68(c)].

(a) The permittee shall reduce the VOC emissions from air dryers and production equipment exhaust systems:

- (1) By at least 90%, by weight if emissions are 220 pounds per day (100 kg per day) or more of VOCs.
- (2) To 33 pounds per day or less if emissions are less than 220 pounds per day of VOCs.

(b) The permittee shall direct all exhaust gases from the Source ID No. 106 production equipment to the thermal oxidizer in order to satisfy the emission limitations.

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

(a) Reactor Train 10 process emissions, after oxidizer control, shall not exceed 0.62 tons of VOC per year as a 12-month rolling sum. The specific sources are listed below:

- (1) 5-Reactors (R4100, R4200, R4300, R4400, and R4500)
- (2) 9-process condensers (E4110, E4138, E4152, E4185, E4210, E4240, E4310, E4390, and E4410)
- (3) 9-vessels (V4120, V4130, V4150, V4192, V4220, V4230, V4356, V4392, and V5410)

SECTION D. Source Level Requirements

(4) 2-centrifuges (Q4160 and Q4260; and 1-dryer (D4180).

(b) NO_x emissions from this source as discharged from the thermal oxidizer shall be limited to 24.1 tons in any 12-month consecutive period.

(c) The manufacturing equipment emissions after oxidizer control, shall not exceed 3.90 tons of VOC per year as a 12-month rolling sum. The specific sources are listed below:

(1) 20-Reactors (R1270, R1280, R1300, R1500, R1510, R1520, R1530, R1540, R1550, R1560, R1570, R1580, R1600, R1620, R1730, R1750, R1780, R1790, and R2100, R2200)

(2) 24-Process Condensers (E1180, E1190, E1270, E1280, E1310, E1390, E1410, E1500, E1510, E1520, E1530, E1540, E1550, E1560, E1570, E1581, E1590A, E1590B, E1600, , E1620, E1750, E1780, E1790, and E2210)

(3) 26-Vessels (V1120, V1182, V1192, V1220, V1270, V1292, V1320, V1330, V1392, V1430, V1500, V1520, V1530, V1540, V1570, V1571, V1581, V1582, V1601, V1650, V1780, V1790, V1850, V1860, V2150, and V2650)

(4) 8-Centrifuges (Q1160, Q1360, Q1460, Q1540, Q1760, Q2160, Q2260, and Q2360)

(5) 9-Dryers (D1180, D1250, D1280, D1380, D1770, D1771, D1772, D1773, and D1774).

(d) The Volatile Organic Compound (VOC)/ Hazardous Air Pollutants (HAPs) emissions, including fugitive emissions, from the solvent recovery system shall not exceed 0.52 pounds/hour or 2.12 tons per year after control on a twelve (12) month rolling period.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The Volatile Organic Compound (VOC) emissions from the Hydrogenation reactor train process, after oxidizer control, shall not exceed 0.2 tons per year on a twelve (12) month rolling period.

(b) The Volatile Organic Compound (VOC) emissions from the equipment leak of the Hydrogenation reactor train process shall not exceed 0.15 tons per year on a twelve (12) month rolling period.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the VOC emissions from fugitive equipment leaks to less than 8.75 tons per year during any consecutive 12-month period. Fugitive equipment leaks are defined as emissions from valves, agitators, connectors, and pumps that are part of the process piping for this facility.

Control Device Efficiencies Restriction(s).

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The point source process VOC/HAPs emissions of the solvent recovery system shall be controlled by the thermal oxidizer with an overall emission reduction of 95 percent.

II. TESTING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 40 C.F.R. § 63.180].

The permittee shall perform pressure testing of each reactor system a minimum of once per year or when a major reconfiguration of the process equipment is performed in accordance with 40 C.F.R. § 63.180 in order to facilitate the calculation of fugitive VOC/HAP emissions from the facility.

SECTION D. Source Level Requirements

III. MONITORING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the pH of the scrubbing liquid introduced to each of the scrubbers for this source anytime the scrubber is operated as follows:

(a) The pH of the liquid used by the scrubbers shall be determined using one of the following:

(1) Manually, a minimum of once per shift, as described below:

(i) The permittee shall calculate the amount of reagent needed in the scrubbers to neutralize the acid or base gases.

(ii) The permittee shall test the scrubbing solution using a titration method before the scrubber is used to determine whether sufficient caustic or acid is present to neutralize the acid or base gases. The pH of this solution will be manually recorded.

(iii) The permittee shall test the scrubbing solution using a titration method after the scrubber has been used to determine that the pH of the scrubbing solution still meets the requirements for this source. The pH of this solution will be manually recorded.

(2) Continuously using an appropriate pH meter.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following on per batch basis:

(a) the material throughput(s) and

(b) hours of operation.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall continuously monitor:

(1) the temperature of the exhaust gases leaving the combustion chamber of the thermal oxidizer.

(2) the pH of the acid gas scrubbing system located at the end of the system (C07- the Vertical Up-Flow Packed Tower). All process gases must be scrubbed within the acid gas scrubbing system (C07) before going into the atmosphere, except when a malfunction occurs.

(b) When a malfunction occurs, the permittee shall direct all exhaust gases to atmosphere using the emergency bypass fan and exhaust stack.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor monthly:

(a) the amount and the concentration of the solvents of various process stream

(b) the name of each HAP and its content in the process stream.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall ensure that all monitoring calculations are based on EPA non-leaking factors for various types of equipment. Since flows through pipes are intermittent, the emissions are calculated using pumping time, which is based on pump characteristics and volumes of raw material, and wastes that are transferred. The combination of pumping time, component composition, and emission factors generate the fugitive emission quantities. The fugitive emissions from Trains 10, 11, and 12, and the Hydrogenation Reactor Train are tracked separately using the same methodology.

SECTION D. Source Level Requirements

014 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.3]

Sections of PART 64

Monitoring design criteria

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441]

- (a) The permittee shall continuously monitor the pressure drop and the pH of the scrubbing solution of the scrubbing system, using the PLC System.
- (b) The permittee shall continuously monitor the exhaust temperature of the oxidizer, using thermocouples.
- (c) The permittee shall perform daily observations of the oxidizer and annual preventative maintenance inspections of the oxidizer.

IV. RECORDKEEPING REQUIREMENTS.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The permittee shall maintain a NO_x and VOC emission tracking systems to document compliance with the NO_x and VOC emission limitations.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall record the pH of the scrubbing liquid introduced to each of the scrubbers for this source anytime the scrubbers are operated. The pH shall be recorded continuously or shall be recorded in the batch records anytime the pH of the scrubbing solution is determined. An alternate recording method, as approved by the Department, may be used.
- (b) The permittee shall continuously record the pH of the scrubbing liquid used by the Vertical Up-flow Packed Tower with a strip chart recorder and PLC system for the air pollution control system, or equivalent.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of any maintenance or calibrations performed on the air pollution control equipment for this source and the associated monitoring equipment in a permanently bound log book or equivalent method approved by the Department.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall calculate and record the NO_x and VOC emissions from this/these source(s) on a monthly basis.
- (b) The permittee shall record the material throughput(s) and hours of operation from this/these source(s) per batch.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall keep a 12-month rolling summary of the VOC emissions to show compliance with the emission limitations for this source. The calculation method shall be approved by the Department.
- (b) The company shall maintain records of:
 - (1) throughputs in gallons on a monthly basis;
 - (2) type and vapor pressure of the product stored; and,
 - (3) a summary of the actual VOC emissions. Emissions shall be calculated monthly and shall be included in an annual emission statement, as required by 25 Pa. Code § 135.21.
- (c) Sufficient data shall be recorded, in a format approved by the Department, so that compliance with the conditions of this

SECTION D. Source Level Requirements

Operating Permit can be determined.

020 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall keep monthly records of:

- (a) the amount and the concentration of the solvents of various process stream
- (b) the name of each HAP and its content in the process stream.

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

- (a). The permittee shall maintain records of the results of pressure testing of valves, agitators, connectors, and pumps that are part of the process piping for this facility.
- (b). The permittee shall calculate and maintain records of VOC emissions from the equipment listed in paragraph (a) above on a monthly and a 12-month rolling basis.
- (c). The company shall implement an LDAR program for the hazardous waste equipment at the facility. This information is used to estimate emissions from this equipment.

022 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.9]**Sections of PART 64****Reporting and recordkeeping requirements**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441]

- (a) The permittee shall record all excursions and corrective actions taken in response to an excursion and the time elapsed until the corrective actions have been taken.
- (b) The permittee shall record all inspections, repairs, and maintenance performed on the monitoring equipment associated with this source.
- (c) The permittee shall maintain records of all monitoring downtime incidents. The permittee shall also record the dates, times and durations, possible causes and corrective actions taken for the incidents.

023 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.9]**Sections of PART 64****Reporting and recordkeeping requirements**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441]

- (a) The permittee shall continuously record the pressure drop and the pH of the scrubbing solution of the scrubbing system, using the PLC System.
- (b) The permittee shall continuously record the combustion chamber outlet temperature, using a recording chart or equivalent electronic system. The permittee shall record preventative maintenance procedures daily using a chart or daily log or equivalent electronic system.

V. REPORTING REQUIREMENTS.**# 024 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

A by-pass or malfunction of the thermal oxidizer (C06) and/or the vertical up-flow packed tower (C07) shall be reported to the Department as follows:

- (1) Verbal notification shall be made to the Department within 1-hour of becoming aware that VOC emissions during the

SECTION D. Source Level Requirements

bypass exceeded one of the following criteria:

(i) more than 33 pounds per day of VOCs were emitted during all bypasses during a single calendar day if VOC emissions from the process (before condensers) were less than 220 pounds per day, or

(ii) VOC emissions were reduced by less than 90% during all bypass during a single calendar day if VOC emissions from the process (before condensers) were 220 pounds per day or more.

(2) Written notice to the Department of the by-pass shall be made within 2 business days if VOC emissions from the bypass met either of the criteria in Condition (1).

(3) A quarterly report shall be prepared and submitted to the Department by the 30th day following the end of the quarter that contains a summary of all bypasses that occurred during the quarter.

(4) The recordkeeping and quarterly reports shall be submitted in the format approved by the Department.

025 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.9]

Sections of PART 64

Reporting and recordkeeping requirements

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441 and 40 CFR § 70.6(a)(3)(iii)(A)]

(a) The permittee shall report all excursions and corrective actions taken, the dates, times, durations, and possible causes, every six (6) months.

(b) The permittee shall report all monitoring downtime incidents, the dates, times and durations, possible causes and corrective actions taken, every six (6) months.

(c) The required reports are due each year and must be submitted by October 1 for the period covering January 1 through June 30 and April 1 for the period covering July 1 through December 31 of the previous year.

VI. WORK PRACTICE REQUIREMENTS.

026 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In the event of a malfunction of the Thermal Oxidizer, the permittee shall direct all exhaust gases to atmosphere using the emergency bypass fan and exhaust stack.

027 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The following conditions apply to the seven Schutte and Koerting two-stage ejector/packed tower scrubbers (S0010, S0020, S0030, S4010, S3010, S3020, and S2020):

(a) The company shall maintain a pH of 10, or greater, in the scrubbing liquid when scrubbing acid gases.

(b) The company shall maintain a pH of 3, or less, in the scrubbing liquid when scrubbing ammonia or base gases.

(c) When any two of the Schutte and Koerting two-stage ejector/packed tower scrubbers are used in series, the company shall maintain a pH of 3, or less, in the scrubbing liquid of the second scrubber when scrubbing ammonia or base gases. If the company is scrubbing acid gases, then the company shall maintain a pH of 10, or greater, in the second scrubber.

(d) The company shall maintain the pressure drop across the two-stage ejector/packed tower scrubber to between 4.0 inches of water gauge and 45 inches of water gauge.

028 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The Volatile Organic Compound (VOC) emissions from Reactor Train 11/12 shall be controlled by the thermal oxidizer

SECTION D. Source Level Requirements

systems.

(b) The thermal oxidizer shall maintain an exhaust gas temperature of at least 1,500 degrees F.

(c) The company shall limit the influent flow rate to the thermal oxidizer to 14,500 standard cubic feet per minute, or less.

(d) The thermal oxidizer shall operate a 95 percent destruction efficiency for both chlorinated and non-chlorinated VOCs.

029 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

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

The thermal oxidizer system shall be maintained and operated in accordance with manufacturer's specifications.

030 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall maintain the following pressure drops across the indicated scrubber(s) anytime the scrubber(s) is operated:

1-venturi eductor (ammonia/acid gas) pre-scrubber (2010) - 0.5" - 45" w.g.

1-acid absorber - thermal oxidizer system - 2.0 to 17.0" w.g.

(b) The permittee shall maintain the following pH of the scrubbing liquid used in the indicated scrubber(s) anytime the scrubber(s) is operated:

1-gas pre-scrubber (2010): pH of 3, or less, when scrubbing NH₃ or base gases; pH of 10, or greater, when scrubbing acid gases.

1-acid absorber - thermal oxidizer system: pH = 7 to 9.

(c) The permittee shall operate the Vertical Up-Flow Packed Tower Scrubber (C07) at all times. All process gases, excluding those from fugitive sources (valves, agitators, connectors, and pumps that are part of the process piping for this facility), must be scrubbed by the Vertical Up-Flow Packed Tower Scrubber, except when a malfunction occurs.

(d) When a malfunction occurs, the permittee shall direct all exhaust gases to atmosphere using the emergency bypass fan and exhaust stack and the Department must be notified as instructed in Section C, Condition #021(d) of this permit.

031 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) For the existing scrubbers, equipment shall be provided so that, at the request of the Department, the following can be measured:

(1) pressure drops across all of the existing scrubbers utilizing a differential manometer, or equivalent.

(2) the liquid flow rates, either acid, caustic or water, to all the existing scrubbers, utilizing a rotameter, or equivalent.

(b) The permittee shall provide equipment to monitor the pressure drop across each of the scrubbers for this source anytime the scrubber is operated. The pressure drop shall be continuously monitored using a differential manometer or equivalent.

032 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall control VOC emissions from the Manufacturing Processes as listed in Condition #002 by operating the thermal oxidizer and the packed tower.

033 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 129.68(d), (e), and (f)]

SECTION D. Source Level Requirements

(a) The permittee shall enclose all centrifuges, rotary vacuum filters, and other filters having an exposed liquid surface where the liquid contains a VOC that exerts a total vapor pressure of 0.5 pounds per square inch or more at 20 degrees Celsius.

(b) The permittee shall use covers on any in-process tanks containing a VOC at any time and the covers shall remain closed unless production, sampling, maintenance, or inspection procedures require operator access.

(c) The permittee shall repair leaks from which a liquid containing a VOC can be observed running or dripping. The repair shall be attempted the first time the equipment is off-line for a period long enough to complete the repair.

034 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512]

(a) The permittee shall direct all exhaust gases, except fugitive emissions, from the solvent recovery unit to the thermal oxidizer.

(b) The increase in the Volatile Organic Compounds emissions from the thermal oxidizer, due to the installation of the solvent recovery unit, shall not exceed 0.01 tons per year.

035 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11497]

SUBPART VVVVVV - National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources

What are the standards and compliance requirements for storage tanks?

All the storage tanks used for the storage of methylene chloride shall be operated in compliance with the requirements of 40 C.F.R. Part 63, Subpart VVVVV.

036 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.3]

Sections of PART 64

Monitoring design criteria

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441]

(a) For the purposes of CAM, an excursion at the scrubber shall be defined as:

- (1) pressure drop readings < 2 w.g. during any 3-hour average period,
- (2) pH readings below 7 during any 3-hour average period.

(b) For the purposes of CAM, an excursion at the thermal oxidizer shall be defined as:

- (1) average hourly temperature readings less than 1500°F,
- (2) failure to perform daily flame observations for this source when the electronic fire eye is not operating.

(c) Operation of the scrubbing system and the thermal oxidizer in accordance with the above parameters shall provide reasonable assurance of compliance with the emission limitations.

037 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.3]

Sections of PART 64

Monitoring design criteria

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441]

The permittee shall use quality assurance and control practices that are adequate to ensure the continuing validity of the data and proper performance of the control device associated with this source. The permittee shall consider manufacturer recommendations or requirements applicable to the monitoring in developing appropriate quality assurance and control practices. At a minimum:

(a) The permittee shall maintain gauges, meters, and thermocouples at locations approved by the Department for obtaining

SECTION D. Source Level Requirements

data that are representative of the monitored indicator.

(b) The permittee shall develop verification procedures to confirm the operational status of new or modified monitoring equipment prior to commencement of the monitoring process, such as compare pressure gauge at a controlled pressure to that of a pressure of a known accuracy.

(c) The permittee shall calibrate and check the accuracy of monitoring equipment, taking into account the manufacturer's specifications. Pressure drop gauges shall be calibrated annually, pH probe shall be calibrated monthly. The instrumentation and oxidizer thermocouples shall be calibrated annually.

**# 038 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.3]
Sections of PART 64
Monitoring design criteria**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441]

The permittee shall maintain all monitoring equipment and stock parts necessary for routine repairs onsite.

**# 039 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.3]
Sections of PART 64
Monitoring design criteria**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441]

The permittee shall ensure that at least 90% of the monitoring data has been properly and accurately collected.

**# 040 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.3]
Sections of PART 64
Monitoring design criteria**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441]

(a) The permittee shall ensure that the oxidizer has reached its minimum operating temperature prior to placing any affected source on-line.

(b) The permittee shall ensure that the oxidizer will not exceed its maximum airflow capacity prior to routing the exhaust of any additional sources to it.

**# 041 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.8]
Sections of PART 64
Quality improvement plan (QIP) requirements**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441]

(a) The permittee shall develop and implement a quality improvement plan (QIP) as expeditiously as practicable if any of the following occurs:

(1) For properly and accurately collected data, accumulated excursions exceed five percent (5%) of the data for particulates.

(2) Six excursions occur in a six-month reporting period.

(3) The Department determines after review of all reported information that the permittee has not responded acceptably to an excursion.

(b) In general, the QIP plan should be developed within 60 days and the permittee shall provide a copy of the QIP to the Department. Furthermore, the permittee shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.

(c) The permittee shall record actions taken to implement a QIP during a reporting period and all related actions including, but not limited to inspections, repairs and maintenance performed on the monitoring equipment.

SECTION D. Source Level Requirements

(d) In accordance with 40 C.F.R. § 64.8, the QIP shall include procedures for evaluating the control performance problems. Based on the results of the evaluation procedures, the permittee shall modify the QIP, and provide a copy to the Department, to include procedures for conducting more frequent or improved monitoring in conjunction with one or more of the following:

- (1) Improved preventive maintenance practices
- (2) Process operation changes
- (3) Appropriate improvements to control methods
- (4) Other steps appropriate to correct performance.

(e) Following implementation of a QIP, the Department will require reasonable revisions to the QIP if the plan has failed to either:

- (1) Address the cause of the control device performance problem.
- (2) Provide adequate procedures for correcting control device performance problems in as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(f) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under any federal, state, or local laws or any other applicable requirements under the Clean Air Act.

VII. ADDITIONAL REQUIREMENTS.**# 042 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Applicable requirements from Plan Approvals PA-46-0025A, PA-46-0025E, PA-46-0025F, and PA-46-0025L have been incorporated into this operating permit. These requirements amend the original Title V Operating Permit and are for the operation of:

Reactor Train 11/12; and four venturi/packed tower scrubbers (S0010, S0020, S0030, and S4010) manufactured by Schutte and Koerting, model No. 7010 for the venturi and No. 7050 for the packed tower. This amended Operating Permit is also for a two-stage ejector/packed tower scrubber (S2010), manufactured by Schutte and Koerting. Reactor 11/12 consists of:

- i. six reactors with individual condensers;
- ii. nine vessels;
- iii. three centrifuges;
- iv. one dryer;
- v. four storage tanks with a rated capacity of 20,000 gallons, each.

The four new storage tanks are subject to 40 C.F.R. Part 60, Subpart Kb of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. 40 CFR Section 60.4 requires submission of copies of all requests, reports, applications, submittals, and other communications to both the EPA and the Department. The EPA copies shall be forwarded to the address specified in Section B of this Title V Operating Permit.

All four storage tanks shall be vented to the thermal oxidizer system.

043 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

This source consists of the following (ID Number)(capacity units):

(a) Reactors (ID Number)(gallons): R1270 (1,500), R1280 (3,000), R1300 (1,000), R1400 (1000), R1500 (500), R1510 (500), R1520 (750), R1530 (1,500), R1540 (750), R1550 (600), R1560 (750), R1570 (600), R1580 (750), R1600 (1,500), R1620 (240), R1750 (200), R1780 (750), R1790 (750), R2100 (1,500), R2200 (750), R3100 (1500), R3200 (1500), R3300 (1500), R3400 (3000), R3500 (1500), R3600 (1500), R3700 (1000), R4100 (1,000), R4200 (1,500), R4300 (1,000), R4400 (1,500), R4500 (1,500).

(b) Receiving Vessels (ID Number)(gallons): V1120 (750), V1130 (300), V1182 (500), V1192 (50), V1220 (750), V1270 (750),

SECTION D. Source Level Requirements

V1292 (50), V1320 (500), V1330 (200), V1392 (50), V1430 (500), V1500 (300), V1520 (500), V1530 (750), V1540 (500), V1581 (600), V1582 (50), V1601 (1,200), V1650 (200), V1780 (500), V1790 (500), V1850 (75), V1860 (50), V2150 (1,500), V2250 (1,000), V2650 (1,000), V3020 (80), V3120 (1000), V3130 (500), V3150 (1500), V3220 (500), V3230 (1500), V3250 (1500), V3320 (1000), V3330 (180), V3350 (1500), V3430 (500), V4120 (750), V4130 (500), V4150 (1,500), V4192 (250), V4220 (750), V4230 (300), V4292 (250), V4356 (3,800), V4392 (250), V5410 (1,500).

(c) Centrifuges (ID Number)(millimeters): Q1160 (1250), Q1360 (1250), Q1460 (1250), Q1760 (1250), Q2160 (1250), Q2260 (1250), Q2360 (1250), Q4160 (1250), Q4260 (1250), Q3160 (1250), Q3260 (1250), Q3360 (1250).

(d) Dryers (ID Number)(cubic feet): D910, D903 (60), D1180 (54), D1250 (30), D1280 (40), D1380 (21), D1771 (350), D1772 (350), D1773 (350), D1774 (350), D4180 (70), D4280 (70), D4380 (70).

(e) Process Condensers (ID Number)(Heat Transfer Area in square feet): E1180 (100), E1190 (18), E1270 (230), E1280 (141), E1310 (123), E1390 (55), E1410 (194), E1500 (92), E1510 (194), E1520 (132), E1530 (213), E1540 (92), E1550 (200), E1560 (135), E1570 (75), E1581 (141), E1590A (84), E1600 (133), E1620 (64), E1750 (100), E1780 (194), E1790 (194), E2210 (99), E3110 (210), E3210 (270), E3310 (262), E3140 (100), E3410 (400), E3510 (270), E3610 (210), E3700 (202), E4110 (275), E4138 (24), E4152 (100), E4185 (55), E4210 (275), E4240 (55), E4310 (275), E4390 (99), E4410 (275).

(f) Scrubbers (ID Number)(Control Device Number - Type and Description): S2010 (C08(a) - Venturi Eductor Package System (Process Scrubber)), S0010 (C08(b) - Two-Stage Ejector/Packed Tower (Process Scrubber)), S0020 (C08(c) - Two-Stage Ejector/Packed Tower), S0030 (C08(d) - Two-Stage Ejector/Packed Tower), S3010 (C08(f)), S3020 (C08(h)), S4010 (C08(e) - Two-Stage Ejector/Packed Tower), S2020 (C08(g) - Two-Stage Ejector/Packed Tower), C07 (Vertical Up-Flow Packed Tower (Air Pollution Control Device)).

(g) Thermal Oxidizer.

(h) Solvent Recovery Unit ID No. S3050.

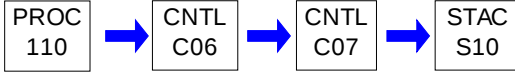
*** Permit Shield in Effect. ***

SECTION D. Source Level Requirements

Source ID: 110

Source Name: SOLVENT RECOVERY SYSTEM

Source Capacity/Throughput:



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The VOC and total HAP emissions from all seven (7) tanks shall not exceed 0.61 pounds/hour and 2.57 tons/year after control on a 12 month rolling sum calculated monthly.

Throughput Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

A. Total liquid feed rate through solvent recovery system shall not be more than 1300 lb/hr.

B. The company shall limit the exhaust to the the thermal oxidizer to a maximum of 14,500 scfm unless an alternative rate is approved by the Department.

Control Device Efficiencies Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The VOC/HAP emissions of the solvent recovery system including all process tanks shall be controlled by the thermal oxidizer with an overall emission reduction of 95 percent.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Company shall monitor the throughput and type of material processed through the solvent recovery system on a monthly basis.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

A. The company shall calculate and record the emissions of VOC/ HAP from this source on a monthly basis in order to demonstrate compliance with the emission limit.

B. The company shall maintain records of the solvent amount and concentration for the various process streams.

C. The company shall keep a record of the name and content of any HAP in the process streams.

D. Records of pressure testing, and maintenance shall be kept in a logbook or other system approved by the Department.

SECTION D. Source Level Requirements

V. REPORTING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

A by-pass or malfunction of the thermal oxidizer (C06) and/or the vertical up-flow packed tower (C07) shall be reported to the Department as follows:

(1) Verbal notification shall be made to the Department within 1-hour of becoming aware that VOC emissions during the bypass exceeded one of the following criteria:

(i) more than 33 pounds per day of VOCs were emitted during all bypasses during a single calendar day if VOC emissions from the process (before condensers) were less than 220 pounds per day, or

(ii) VOC emissions were reduced by less than 90% during all bypass during a single calendar day if VOC emissions from the process (before condensers) were 220 pounds per day or more.

(2) Written notice to the Department of the by-pass shall be made within 2 business days if VOC emissions from the bypass met either of the criteria in Condition (1).

(3) A quarterly report shall be prepared and submitted to the Department by the 30th day following the end of the quarter that contains a summary of all bypasses that occurred during the quarter.

(4) The recordkeeping and quarterly reports shall be submitted in the format approved by the Department.

VI. WORK PRACTICE REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

A. The VOC/HAP emissions from the solvent recovery system vents shall be controlled by the thermal oxidizer.

B. The company shall operate the thermal oxidizer system whenever the solvent recovery system is operating.

C. The company shall maintain, and operate the solvent recovery system and the thermal oxidizer system according to the manufacturer's specification as well as good air pollution control practices.

D. Equipment shall be provided so that at the request of the Department, the temperature and flow rate of the thermal oxidizer system can be measured.

E. In case of thermal oxidizer malfunction, the permittee shall direct the solvent recovery system including process tank exhaust gases to atmosphere using the emergency bypass fan and exhaust stack.

F. The thermal oxidizer shall be operated at a minimum temperature of 1500°F measured at the combustion chamber.

G. The company shall perform annual pressure testing to control fugitive emission leaks.

H. The company shall vent all of Source ID 110 process tanks to the thermal oxidizer (control device ID C06).

VII. ADDITIONAL REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 110 consists of seven (7) process tanks.

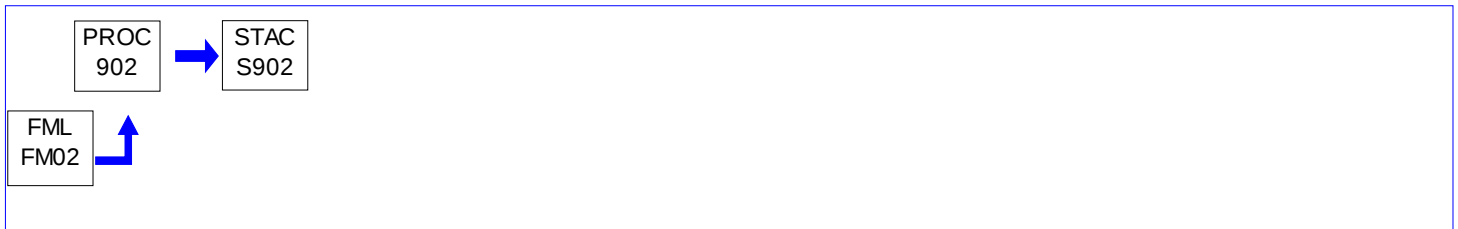
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SECTION D. Source Level Requirements

Source ID: 902

Source Name: TWO INTERNAL COMBUSTION ENGINES

Source Capacity/Throughput: 65.000 Gal/HR #2 Oil

**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 from each of the engines in a manner that the concentration of particulate matter 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 any unit in a manner that the concentration of the sulfur oxides (expressed as SO₂) in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

The total Volatile Organic Compound (VOC) emissions and the total Nitrogen Oxide (NO_x) emissions shall not exceed 0.46 tons per year and 8.09 tons per year, respectively, during any consecutive 12-month period.

Operation Hours Restriction(s).**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall not operate any of these internal combustion engines more than 500 hours in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(1) The permittee shall monitor monthly:

- (a) the hours of operation,
- (b) the amount and type of fuel used.

(2) The permittee shall calculate the emissions monthly.

SECTION D. Source Level Requirements

IV. RECORDKEEPING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record monthly:

- (a) the hours of operation,
- (b) the amount and type of fuel used, and
- (c) emission calculations, including 12-month rolling sums.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall obtain and maintain records of delivery receipts from the fuel supplier, showing the maximum percent sulfur in the fuel, each time a fuel oil delivery is made.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

This source shall be operated and maintained in accordance with manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 902 consists of the following internal combustion engines:

- (a) Emergency Electric Generator (capacity = 38.2 gallons fuel per hour)
- (b) Fire Pump (capacity = 26.8 gallons fuel per hour)

010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?

The generator engines must comply with the requirements for emergency stationary ICE specified in 40 CFR § 60.4211(f).

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]

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

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

The generator engines must meet the definition of an emergency stationary RICE in 40 CFR § 63.6675, which includes operating according to the provisions specified in 40 CFR § 63.6640(f).

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

SECTION E. Alternative Operation Requirements.

Alternative Operation Name: RAW MATERIAL & WASTE STORAGE TANKS

#001 CHANGES FROM NORMAL OPERATION

The pressure drop and PH limitations for the acid gas scrubbing system (C07) shall not be applicable during periods when Source ID 101 is not emitting chlorinated or halogenated solvents.

Sources included in this Alternative Operation:

ID	Name	Source Type
101	RAW MATERIAL & WASTE STORAGE TANKS	Process

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor start and finish times that this alternative operation is performed.

IV. RECORDKEEPING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record start and finish times that this alternative operation is performed.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use this operating scenario when Source ID 101 is not emitting chlorinated or halogenated solvents.

VII. ADDITIONAL REQUIREMENTS.

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

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

SECTION F. Emission Restriction Summary.

Source Id	Source Description		
C30	CLEAVER BROOKS BOILER 1		
Emission Limit		Pollutant	
32.100	Tons/Yr	12-month rolling C30 and C31 combined total	NOX
0.400	Lbs/MMBTU		PM10
0.620	Tons/Yr	12-month rolling C30 and C31 combined total	VOC
C31	CLEAVER BROOKS BOILER 2		
Emission Limit		Pollutant	
32.100	Tons/Yr	12-month rolling C30 and C31 combined total	NOX
0.400	Lbs/MMBTU		PM10
0.620	Tons/Yr	12-month rolling C30 and C31 combined total	VOC
001	HAZARDOUS WASTE INCINERATOR		
Emission Limit		Pollutant	
92.000	UG/DSCM	Arsenic, Beryllium, and Chromium combined, corrected to 7% O2	Arsenic
100.000	PPMV	Corrected to 7% O2	CO
230.000	UG/DSCM	Cadmium and Lead Combined, Corrected to 7% O2	Cadmium
0.400	NG/DSCM	Dioxins and Furans - TEQ Corrected to 7% O2	Furan
10.000	PPMV	Corrected to 7% O2	Hydrocarbon
32.000	PPMV	Hydrogen Chloride and Chlorine gas (Total Chlorine), Corrected to 7% O2, expressed as Chloride equivalent	Hydrogen Chloride (Anhydrous)
130.000	UG/DSCM	Corrected to 7% O2	Mercury
28.020	Tons/Yr	12 month rolling	NOX
0.013	gr/DRY FT3	Corrected to 7% O2	PM10
0.620	Tons/Yr	12 month rolling	VOC
004	DUST COLLECTION SYSTEMS		
Emission Limit		Pollutant	
0.040	gr/DRY FT3		PM10
2.500	Tons/Yr	12-month rolling	VOC
101	RAW MATERIAL & WASTE STORAGE TANKS		
Emission Limit		Pollutant	
3.700	Tons/Yr	12-month rolling	VOC
103	WASTE SUMPS		
Emission Limit		Pollutant	
2.600	Tons/Yr	12-month rolling	VOC

SECTION F. Emission Restriction Summary.

Source Id	Source Description		
105	WASTEWATER TREATMENT		
Emission Limit		Pollutant	
6.960	Lbs/Hr		VOC
30.490	Tons/Yr	12 month rolling	VOC
106	MANUFACTURING PROCESSES		
Emission Limit		Pollutant	
2.140	Lbs/Hr		Ammonia
428.000	Lbs/Yr		Ammonia
0.320	Lbs/Hr		Hydrochloric Acid
64.000	Lbs/Yr		Hydrochloric Acid
0.030	Lbs/Hr		Hydrocyanic Acid
6.000	Lbs/Yr		Hydrocyanic Acid
24.100	Tons/Yr	Thermal Oxidizer on a 12-month rolling sum basis	NOX
0.150	Tons/Yr	Hydrogenation Reactor Fugitive Emissions on a 12-month rolling sum basis	VOC
0.200	Tons/Yr	Hydrogenation Reactor on a 12-month rolling sum basis	VOC
0.520	Lbs/Hr	Solvent Recovery VOC/HAP	VOC
0.620	Tons/Yr	Reactor 10 on a 12-month rolling sum basis	VOC
0.900	Tons/Yr	Reactor Train 11/12 on a 12-month rolling sum basis	VOC
1.020	Tons/Yr	Reactor Train 11/12 Storage Tanks on a 12-month rolling sum basis	VOC
2.120	Tons/Yr	Solvent Recovery VOC/HAP on a 12-month rolling sum basis	VOC
3.900	Tons/Yr	After Thermal Oxidizer Control on a 12-month rolling sum basis	VOC
4.620	Tons/Yr	Reactor Train 11/12 Fugitive VOC on a 12-month rolling sum basis	VOC
8.750	Tons/Yr	Fugitive VOC on a 12-month rolling sum basis	VOC
902	TWO INTERNAL COMBUSTION ENGINES		
Emission Limit		Pollutant	
8.090	Tons/Yr	12 month rolling	NOX
0.040	gr/DRY FT3		PM10
500.000	PPMV		SOX
0.460	Tons/Yr	12 month rolling	VOC

Site Emission Restriction Summary

Emission Limit		Pollutant
49.900	Tons/Yr	12-month rolling sum basis
9.900	Tons/Yr	individual HAP
24.900	Tons/Yr	combination HAPs



SECTION F. Emission Restriction Summary.

Alternative Operation Emission Restriction Summary

Source Id	Source Description
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SECTION G. Miscellaneous.

(A) Except for the sources listed in paragraphs (e), (f) and (g) of this section, the following insignificant sources have been exempted from the testing, monitoring, recordkeeping, and reporting requirements, however, they are still subject to conditions in Sections B and C of this operating permit:

- (1) Combustion emissions from propulsion of mobile sources (e.g. lawn mowers, tow and lift vehicles)
- (2) Air conditioning units that do not have applicable requirements under Title VI of the Clean Air Act Amendments of 1990.
- (3) Ventilation units that do not exhaust air pollutants into the ambient air
- (4) Electric space heaters
- (5) Electrically-heated furnaces, ovens, heaters, and other electrically operated equipment
- (6) Janitorial services and consumer use of janitorial products
- (7) Internal combustion engines associated with landscaping
- (8) Garbage compactors and waste barrels
- (9) Laundry activities except for dry cleaning and steam boilers
- (10) Plant maintenance activities (e.g. groundskeeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided that these activities are not conducted as part of a manufacturing process
- (11) Repair or maintenance shop activities not related to a primary business activity, not including surface coating or degreasing activities
- (12) Portable electrical generators
- (13) Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal, or plastic
- (14) Brazing, soldering, and welding equipment, and torch-cutting equipment related to maintenance and construction activities that do not result in the emission of HAP(s)
- (15) Air compressors and pneumatically-operated equipment, including hand tools
- (16) Storage tanks, vessels, and containers holding or storing liquids that do not result in the emission of VOC or HAP(s)
- (17) Propane or natural gas tanks and containers
- (18) Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and non-volatile aqueous salt solutions, provided that appropriate lids/covers are utilized
- (19) Equipment used to mix and package soaps, vegetable oil, grease, animal fat, and non-volatile aqueous salt solutions, provided that appropriate lids/covers are utilized
- (20) Drop hammers or hydraulic presses for forging or metal-working
- (21) Vents from CEMS and other analyzers
- (22) Natural gas pressure regulator vents
- (23) Hand-held applicator equipment for hot melt adhesives containing no VOC or HAP(s)
- (24) Natural gas space heaters: (5)-80,000 BTU/hr, (4)-85,000 BTU/hr, (3)-100,000 BTU/hr.

(B) The following serves as a description of the Source ID's:

- (1) Source IDs C30 and C31 are both previously the subject of Operating Permit No. 46-302-119 (Amended).
- (2) Source ID 106 consists of equipment previously the subject of Operating Permit No. 46-313-048 (Amended).

(C) RACT Operating Permit No. 46-0025 was issued April 22, 1997 (revised April 28, 1999), and addressed the following Source IDs: C30, C31, 001, 004, 101, 104, 105, 106, 107, 108, 901, 902, and Control Device C06.

(D) The capacities for material and fuel that are listed in Sections A and D of this permit are used for descriptive purposes. These capacities are not considered limitations or enforceable conditions by the Department.

(E) The permittee shall limit the VOC emissions from the fuel oil and diesel tanks to less than 0.02 tons per year. Tanks greater than 40,000 gallons capacity are subject to 25 Pa. Code Section 129.56, and tanks less than or equal to 40,000 gallons are subject to 25 Pa. Code Section 129.57. The permittee shall maintain the necessary records to demonstrate compliance with the emission limitation and regulations (if applicable) and shall make them available to the Department upon request.

(F) The permittee shall limit the VOC emissions from the laboratory hoods to less than 0.81 tons per year. The permittee shall maintain the necessary records to demonstrate compliance with this limitation and shall make them available to the Department upon request.

(G) The hours of operation of the internal combustion engine and the fire pump shall not exceed 500 hours per year based on a 12-month rolling sum.

(H) The following conditions of Source 106 have been addressed in the modified Title V permit, as outlined below:

SECTION G. Miscellaneous.

(1) Condition #004(d) - The fugitive emissions of Volatile Organic Compounds (VOCs) from the solvent recovery system, shall not exceed 2.1 tons per year on a twelve (12) month rolling basis.

(2) Condition #031 -

(a) The permittee shall direct all exhaust gases, except fugitive emissions, from the solvent recovery unit to the thermal oxidizer.

(b) The increase in the Volatile Organic Compounds emissions from the thermal oxidizer, due to the installation of the solvent recovery unit, shall not exceed 0.01 tons per year.

(I) Administrative Amendment (APS ID 345569 and AUTH ID 484516) to address the concerns expressed in the Appeal Document.

(J) Minor Modification (APS ID 345569 and AUTH ID 547346) to replace 400 gallon Reactor R1610 with a 750 Reactor R2200. This was approved under RFD# 46-A01-2193. The replacement will allow the operational flexibility to run low temperature (-65 degrees Celsius) processes without any emission increase.

(K) Administrative Amendment (APS ID 345569 and AUTH ID 573536) to incorporate:

(a) PA 46-0025I for the modification of the solvent recovery system for Source 106, Manufacturing Processes.

(b) PA 46-0025B for the installation of Hydrogenation reactor train for Source 106, Manufacturing Process.

(L) Minor Modification (APS: 584918, AUTH: 634856). Add new emission limits for Source 106.

(M) This permit is the Title V Renewal Permit (APS ID 446608, AUTH ID 643678). The following items have been addressed in this renewal permit:

(1) The Responsible Official has been changed to: Vincent A. DiVito, Chief Financial Officer, (201) 316-9257. The Permit Contact Person has been changed to: Donald M. Hoffman, II, Environmental Engineer, (610) 292-4323.

(2) Section B and C have been updated according to current template conditions for the Southeast Region. Section C, Reporting Condition #021(d) has been revised regarding contacting the Department during by-pass of control.

(3) Source ID C30 and C31 Cleaver Brooks Boilers - 25 Pa. Code § 123.22(e)(1) has been streamlined into 25 Pa. Code § 123.22(e)(2).

(4) Source ID 001 Hazardous Waste Incinerator - All applicable federal regulations from 40 CFR § 63 Part EEE - National Emissions Standards for Hazardous Air Pollutants from Hazardous Waste Combustors have been changed to display the correct federal citation with additional authority from state regulations. Replacement standards (effective October 14, 2008) have been added and the interim standards have been removed. A complete analysis of updated Subpart EEE was performed as part of this renewal permit. CEMS Recordkeeping and Reporting have been added to the permit. Specific parameters to monitor have been added to Monitoring Requirement #018 for Source ID 001. References to Emergency Safety Valve (ESV) have been removed, the source does not utilize an ESV.

(5) Source ID 101 Raw Material and Waste Storage Tanks - CAM requirements have been added to this source, as applicable.

(6) Source ID 106 Manufacturing Processes - Condition #002(d) annual emissions rates from Reactor Train 11/12 have been modified according to RFD No. 46-A01-2385. Various conditions have been edited for consistency with applicable regulations and for enforcement clarity. CAM requirements have been added to this source, as applicable. Requirements from plan approval No. 46-0025E have been added for Reactor Train 11/12. Reactors, storage vessels and new equipment contained in plan approval No. 46-0025E have been added for the Reactor Train 11/12.

(7) Source ID 901 Space Heaters - This source has been removed from the site inventory and source level requirements and now appears as an insignificant source of emissions in Section G Miscellaneous (A)(24) above. There are (5)-80,000; (4)-85,000; (3)-100,000 BTU/hr natural gas space heaters at the facility.

(8) Compliance Assurance Monitoring (CAM) - The facility is subject to the requirements of CAM, 40 CFR Part 64. The facility is major for VOC, and the facility does operate control equipment for VOC emissions. Therefore, CAM Requirements have been added to the permit for the scrubber/packed tower (C07) and the thermal oxidizer (C06) associated with Source IDs 101 and 106. Conditions appear in Section D Source Level Requirements at each source.

(9) Section F Emission Summary has been updated accordingly.

APS ID 446608; AUTH ID 785937: Request for TVOP Administrative Amendment to incorporate PA-46-0025C (October 14, 2008), 46-0025J, (October 14, 2008) and 46-0025K, (December 28, 2009).

November, 2010. APS : 735332, AUTH : 857231. Change of Ownership and a name change from Lonza, Inc. (Tax ID 13-5665861-2) to Johnson Matthey Inc. (Tax ID 23-0411710-2).

April, 2011. APS : 735332, AUTH : 871303. Minor Modification of sources Id # 101 & 106.

SECTION G. Miscellaneous.

July, 2013. APS : 735332, AUTH : 985246. Minor Modification of sources Id # 106.

December, 2013. TVOP Renewal 46-00025, APS : 735332, AUTH : 971172

Following list of RFDs issued for the insignificant activities:

Rfd # 802, issued on 4/27/09 for the replacement of tank V154.

Rfd # 1778, issued on 10/25/13 for the temporary shut down of oxidizer.

Rfd # 1880, issued on 4/27/09 for the replacement of V515 tanks & vented to thermal oxidizer & packed scrubber.

Rfd # 2214, issued on 4/27/09 for the venting of storage tanks to atmosphere & not operate the thermal oxidizer during plant shutdowns.

Rfd # 2153, issued on 4/27/09 for the two portable filters for material separation, and vented to thermal oxidizer and packed tower scrubber.

Rfd # 2593, issued on 4/27/09 for the new manufacturing product-releases hydrogen gas.

Rfd # 2630, issued on 4/27/09 for the hydrogenation

Rfd # 2930, issued on 4/27/09 for the temporary EGENs.

April, 2014. TVOP Renewal 46-00025, APS: 735332, AUTH: 971172. Also, Minor Modifications (APS: 735332, AUTH: 1050065, APS: 735332, AUTH: 1000590, APS: 735332, AUTH: 1004679, APS: 735332, AUTH: 1034344).

January, 2017. RACT amendment of TVOP 46-00025, APS: 735332, AUTH: 1145993.

May 2018: Administrative Amendment to incorporate plan approval 46-0025L for the removal of an ODEX Scrubber from the operations of the facility into the Title V Operating Permit. References to Source ID No. 104 were removed from Source ID No. 106, and the conditions in Source ID No. 106 were updated with the conditions that were formerly under Source ID No. 104. APS No. 735332; Authorization No. 1226111.



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