



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date:	May 2, 2013	Effective Date:	September 8, 2014
Revision Date:	September 8, 2014	Expiration Date:	May 20, 2018
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: 46-00018

Federal Tax Id - Plant Code: 39-1152983

Owner Information

Name: QUAD GRAPHICS INC
Mailing Address: 4581 LOWER VALLEY RD
ATGLEN, PA 19310

Plant Information

Plant: QG PRINTING / EAST GREENVILLE
Location: 46 Montgomery County 46954 Upper Hanover Township
SIC Code: 2759 Manufacturing - Commercial Printing, Nec

Operator

Name: WILLIAM BOOTH [If different from owner]
Mailing Address: 668 GRAVEL PIKE
EAST GREENVILLE, PA 18041

Responsible Official

Name: KEITH GONYO
Title: OPERATIONS DIRECTOR
Phone: (215) 679 - 4451

Permit Contact Person

Name: BILL BOOTH
Title: ENVIRONMENTAL COORDINATOR
Phone: (215) 679 - 4451

[Signature] _____
 JAMES D. REBARCHAK, SOUTHEAST REGION AIR PROGRAM MANAGER

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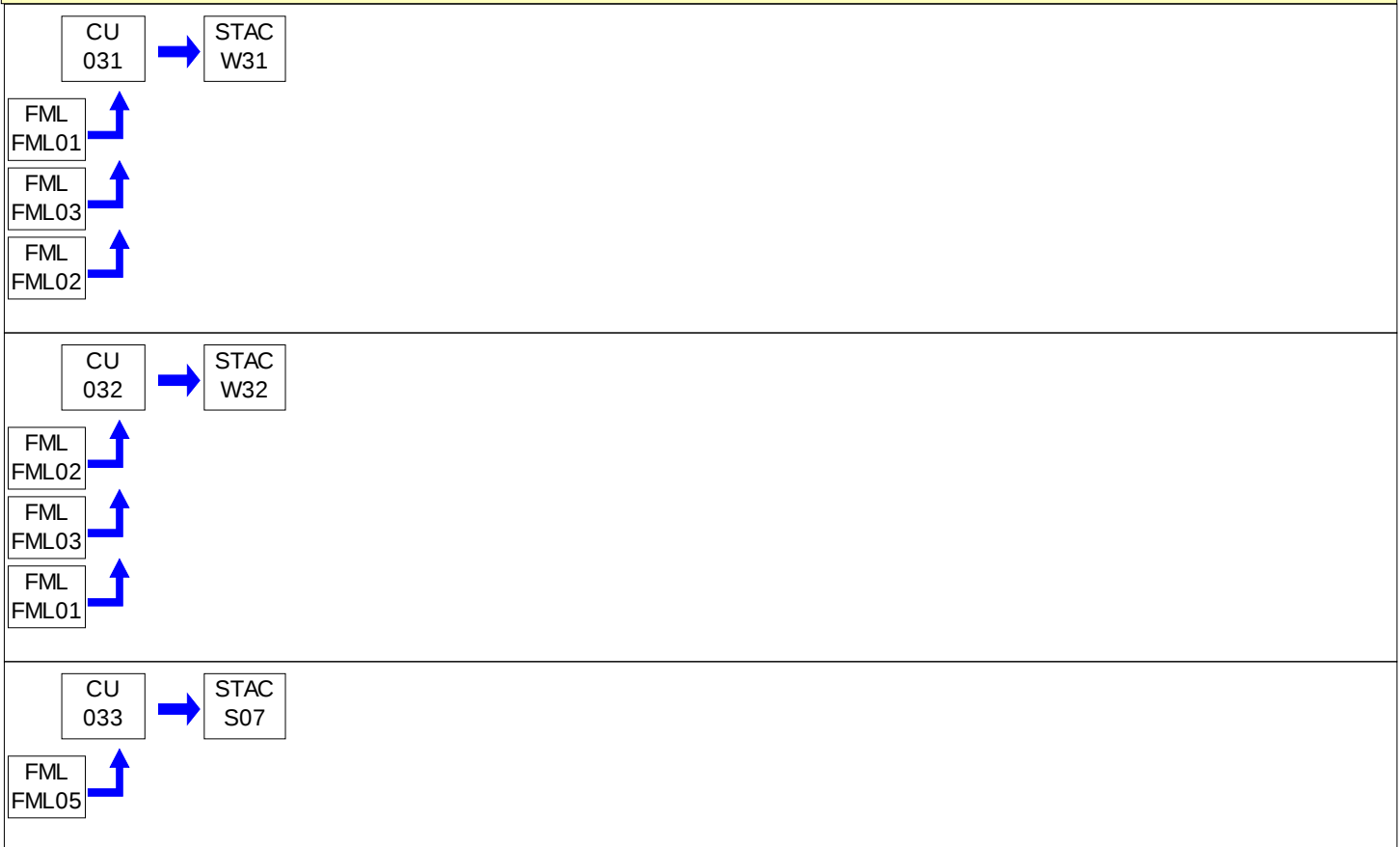
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput		Fuel/Material
031	BOILER 1	6.000	MMBTU/HR	
		5.950	MCF/HR	NATURAL GAS
		65.700	Gal/HR	PROPANE
032	BOILERS 2 & 3	5.100	MMBTU/HR	
		4.857	MCF/HR	Natural Gas
		58.511	Gal/HR	Propane
033	PUMPHOUSE BOILER 4	1.800	MMBTU/HR	
		12.857	Gal/HR	#2 Oil
034	BOILERS 5 & 6	7.000	MMBTU/HR	
		6.670	MCF/HR	Natural Gas
		77.000	Gal/HR	Propane
104A	OFFSET PRESS 1004 W/DRYING OVEN	8,800.000	CF/HR	Natural Gas
		98.000	Gal/HR	Propane
		322.000	Lbs/HR	INK
106A	OFFSET PRESS 1006 W/DRYING OVEN	10.800	MCF/HR	Natural Gas
		120.000	Gal/HR	Propane
		430.000	Lbs/HR	INK
109	OFFSET PRESS 1009 W/DRYING OVEN	11.800	MCF/HR	Natural Gas
		131.000	Gal/HR	Propane
		821.000	Lbs/HR	INK
110	OFFSET PRESS 1010 W/DRYING OVEN	11.800	MCF/HR	Natural Gas
		131.000	Gal/HR	Propane
		929.000	Lbs/HR	INK
112	OFFSET PRESS 1011 (8 STATION W/ DRYING OVEN)	815.520	CF/HR	Natural Gas
		9.190	Gal/HR	Propane
		290.000	Lbs/HR	INK
220	INK JET PRINTER UNITS	10.000	Lbs/HR	VOC SOLV BASED INKS
240	(2) PROPANE STORAGE TANKS			
301	(10) PARTS WASHERS - SOLVENT BASED	2.000	Lbs/HR	MINERAL SPIRITS
309	FIRE PUMP	12.290	Gal/HR	#2 Oil
401	(2) EMERGENCY GENERATORS	8.800	Gal/HR	Propane
C05	THERMAL OXIDIZER (IT-4)	11.800	MCF/HR	Natural Gas
		131.000	Th Gal/HR	Propane
C06	THERMAL OXIDIZER (IT-5)	11.800	MCF/HR	Natural Gas
		131.000	Gal/HR	Propane
C07	MEGTEC RTO (IT-3)	4,000.000	CF/HR	Natural Gas
		44.000	Th Gal/HR	Propane
C08	L & E THERMAL OXIDIZER	3,922.000	CF/HR	Natural Gas
		44.200	Gal/HR	Propane
FML01	NATURAL GAS PIPELINE			
FML02	PROPANE TANK 1			
S05	OXIDIZER (IT-4) STACK			

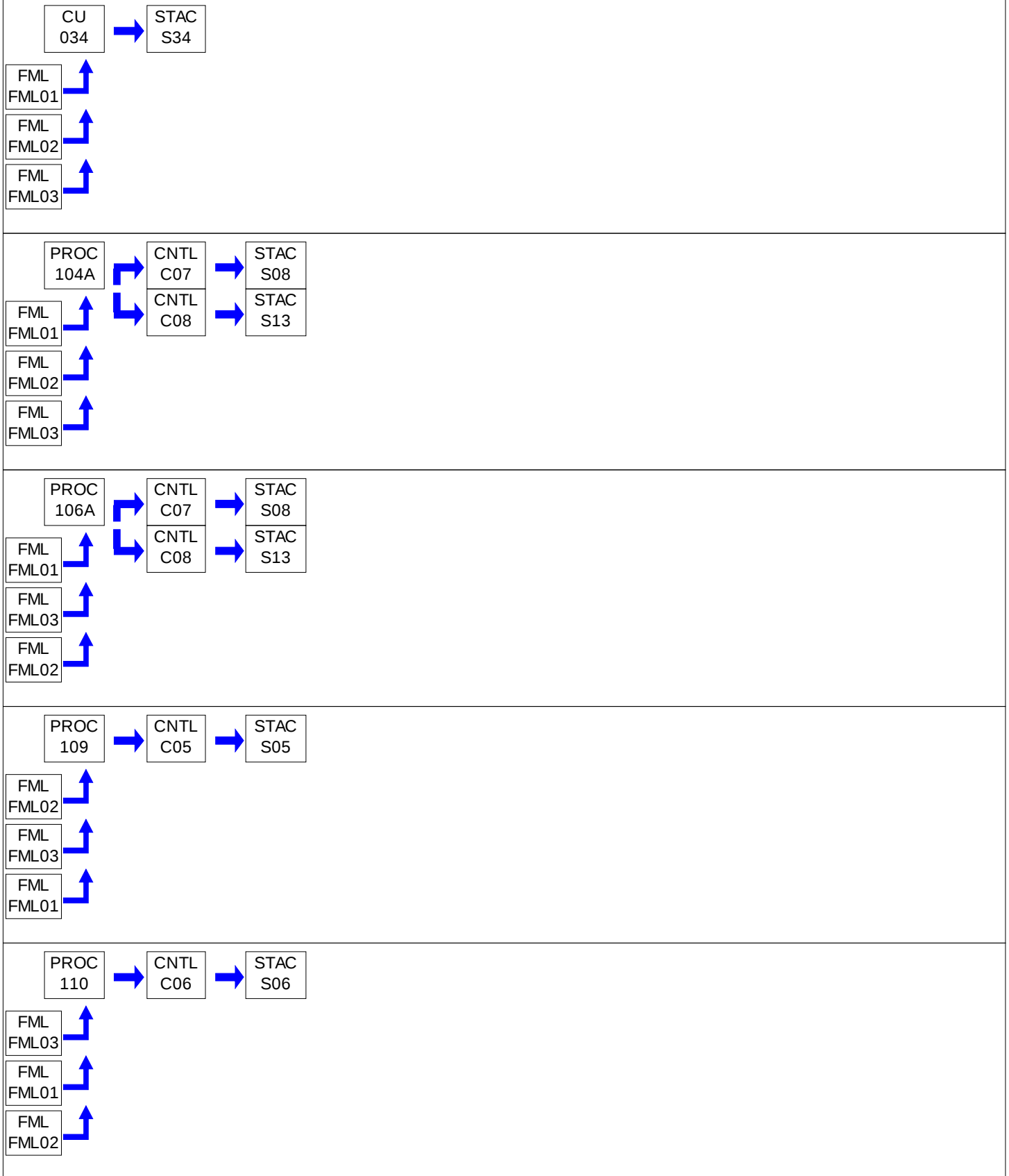
SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
FML03	PROPANE TANK 2		
FML04	DIESEL TANK		
FML05	NO.2 FUEL TANK		
S06	OXIDIZER (IT-5) STACK		
S07	PUMPHOUSE BOILER STACK		
S08	OXIDIZER (IT-3) STACK		
S09	EMER GEN STACK		
S10	FIRE PUMP STACK		
S13	L & E THERMAL OXIDIZER STACK		
S34	BOILER 5 & 6 STACK		
W31	BOILER STACK (S03)		
W32	BOILER 2 & 3 STACK		
Z11	EMISSIONS FROM PARTS WASHERS		
Z12	PROPANE TANK FUGITIVES		
Z220	INK JET FUGITIVE EMISSIONS		

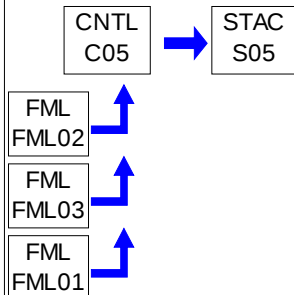
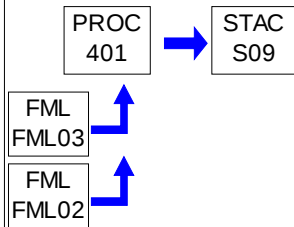
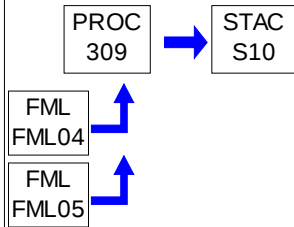
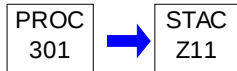
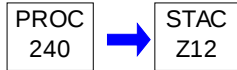
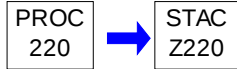
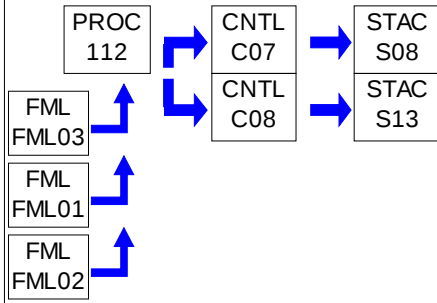
PERMIT MAPS

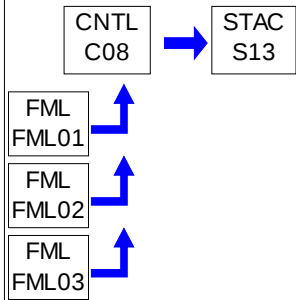
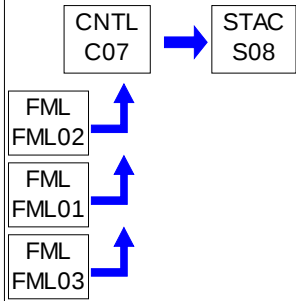
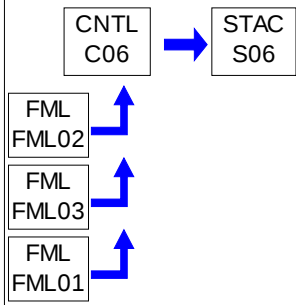


PERMIT MAPS



PERMIT MAPS



PERMIT MAPS

SECTION B. General Title V Requirements

#001 [25 Pa. Code § 121.1]

Definitions

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

#002 [25 Pa. Code § 127.512(c)(4)]

Property Rights

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

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

Permit Expiration

This 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.

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

Permit Renewal

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

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

Transfer of Ownership or Operational Control

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

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

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

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

SECTION B. General Title V Requirements

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

#006 [25 Pa. Code § 127.513, 35 P.S. § 4008 and § 114 of the CAA]

Inspection and Entry

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

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

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

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

#007 [25 Pa. Code §§ 127.25, 127.444, & 127.512(c)(1)]

Compliance Requirements

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

#008 [25 Pa. Code § 127.512(c)(2)]

Need to Halt or Reduce Activity Not a Defense

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

SECTION B. General Title V Requirements

#009 [25 Pa. Code §§ 127.411(d) & 127.512(c)(5)]

Duty to Provide Information

- (a) The permittee shall furnish to the Department, within a reasonable time, information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit.
- (b) Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to keep by this permit, or for information claimed to be confidential, the permittee may furnish such records directly to the Administrator of EPA along with a claim of confidentiality.

#010 [25 Pa. Code §§ 127.463, 127.512(c)(3) & 127.542]

Reopening and Revising the Title V Permit for Cause

- (a) This Title V permit may be modified, revoked, reopened and reissued or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay a permit condition.
- (b) This permit may be reopened, revised and reissued prior to expiration of the permit under one or more of the following circumstances:
- (1) Additional applicable requirements under the Clean Air Act or the Air Pollution Control Act become applicable to a Title V facility with a remaining permit term of 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.

#011 [25 Pa. Code § 127.543]

Reopening a Title V Permit for Cause by EPA

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

#012 [25 Pa. Code § 127.541]

Significant Operating Permit Modifications

When permit modifications during the term of this permit do not qualify as minor permit modifications or administrative amendments, the permittee shall submit an application for significant Title V permit modifications in accordance with 25 Pa. Code § 127.541.

SECTION B. General Title V Requirements**#013 [25 Pa. Code §§ 121.1 & 127.462]****Minor Operating Permit Modifications**

- (a) The permittee may make minor operating permit modifications (as defined in 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.
- (b) Unless precluded by the Clean Air Act or the regulations thereunder, the permit shield described in 25 Pa. Code § 127.516 (relating to permit shield) shall extend to an operational flexibility change authorized by 25 Pa. Code § 127.462.

#014 [25 Pa. Code § 127.450]**Administrative Operating Permit Amendments**

- (a) The permittee may request administrative operating permit amendments, as defined in 25 Pa. Code § 127.450(a), according to procedures specified in § 127.450. Administrative amendments are not authorized for any amendment precluded by the Clean Air Act or the regulations thereunder from being processed as an administrative amendment.
- (b) Upon taking final action granting a request for an administrative permit amendment in accordance with § 127.450(c), the Department will allow coverage under 25 Pa. Code § 127.516 (relating to permit shield) for administrative permit amendments which meet the relevant requirements of 25 Pa. Code Article III, unless precluded by the Clean Air Act or the regulations thereunder.

#015 [25 Pa. Code § 127.512(b)]**Severability Clause**

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

#016 [25 Pa. Code §§ 127.704, 127.705 & 127.707]**Fee Payment**

- (a) The permittee shall pay fees to the Department in accordance with the applicable fee schedules in 25 Pa. Code Chapter 127, Subchapter I (relating to plan approval and operating permit fees).
- (b) Emission Fees. The permittee shall, on or before September 1st of each year, pay applicable annual Title V emission fees for emissions occurring in the previous calendar year as specified in 25 Pa. Code § 127.705. The permittee is not required to pay an emission fee for emissions of more than 4,000 tons of each regulated pollutant emitted from the facility.
- (c) As used in this permit condition, the term "regulated pollutant" is defined as a VOC, each pollutant regulated under Sections 111 and 112 of the Clean Air Act and each pollutant for which a National Ambient Air Quality Standard has been promulgated, except that carbon monoxide is excluded.
- (d) Late Payment. Late payment of emission fees will subject the permittee to the penalties prescribed in 25 Pa. Code § 127.707 and may result in the suspension or termination of the Title V permit. The permittee shall pay a penalty of fifty percent (50%) of the fee amount, plus interest on the fee amount computed in accordance with 26 U.S.C.A. § 6621(a)(2) from the date the emission fee should have been paid in accordance with the time frame specified in 25 Pa. Code § 127.705(c).
- (e) The permittee shall pay an annual operating permit administration fee according to the fee schedule established in 25 Pa. Code § 127.704(c) if the facility, identified in Subparagraph (iv) of the definition of the term "Title V facility" in 25 Pa. Code § 121.1, is subject to Title V after the EPA Administrator completes a rulemaking requiring regulation of those sources under Title V of the Clean Air Act.
- (f) This permit condition does not apply to a Title V facility which qualifies for exemption from emission fees under 35 P.S. § 4006.3(f).

SECTION B. General Title V Requirements**#017 [25 Pa. Code §§ 127.14(b) & 127.449]****Authorization for De Minimis Emission Increases**

(a) This permit authorizes de minimis emission increases from a new or existing source in accordance with 25 Pa. Code §§ 127.14 and 127.449 without the need for a plan approval or prior issuance of a permit modification. The permittee shall provide the Department with 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.
- (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

SECTION B. General Title V Requirements

of the following:

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

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

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

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

(e) Unless precluded by the Clean Air Act or the regulations thereunder, the permit shield described in 25 Pa. Code § 127.516 (relating to permit shield) applies to de minimis emission increases and the installation of minor sources made pursuant to this permit condition.

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

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

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

#018 [25 Pa. Code §§ 127.11a & 127.215]**Reactivation of Sources**

(a) The permittee may reactivate a source at the facility that has been out of operation or production for at least one year, but less than or equal to 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).

#019 [25 Pa. Code §§ 121.9 & 127.216]**Circumvention**

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

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

SECTION B. General Title V Requirements**#020 [25 Pa. Code §§ 127.402(d) & 127.513(1)]****Submissions**

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

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

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

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.

#021 [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.

#022 [25 Pa. Code §§ 127.511 & Chapter 135]**Recordkeeping Requirements**

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

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

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

SECTION B. General Title V Requirements

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

#023 [25 Pa. Code §§ 127.411(d), 127.442, 127.463(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 #020(c) of this permit.

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

#024 [25 Pa. Code § 127.513]

Compliance Certification

(a) 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 #020 of this section.

#025 [25 Pa. Code § 127.3]

Operational Flexibility

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

SECTION B. General Title V Requirements

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

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

#026 [25 Pa. Code §§ 127.441(d), 127.512(i) and 40 CFR Part 68]

Risk Management

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

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

SECTION B. General Title V Requirements

of an accidental release program for five (5) years in accordance with 40 CFR § 68.200.

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

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

(2) The permittee fails to submit a compliance schedule or include a statement in the compliance certification required under Condition #24 of Section B of this Title V permit that the Title V facility is in compliance with the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68, and 25 Pa. Code § 127.512(i).

#027 [25 Pa. Code § 127.512(e)]

Approved Economic Incentives and Emission Trading Programs

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

#028 [25 Pa. Code §§ 127.516, 127.450(d), 127.449(f) & 127.462(g)]

Permit Shield

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

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

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

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

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

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

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

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

(c) Unless precluded by the Clean Air Act or regulations thereunder, final action by the Department on minor or significant permit modifications, and operational flexibility changes shall be covered by the permit shield. Upon taking final action granting a request for an administrative permit amendment, the Department will allow coverage of the amendment by the permit shield in § 127.516 for administrative amendments which meet the relevant requirements of 25 Pa. Code Article III.

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

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

No person shall permit 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, railcars, and other vehicular equipment are not considered as emissions from use of roads and streets.
- (d). Clearing of Land
- (e). Stockpiling of materials.
- (f). Sources, and classes of sources, other than those identified in (a) - (e) above, for which the operator 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

No person shall permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in site level condition #002, above, if such emissions are visible at the point the emissions pass outside the person's property.

004 [25 Pa. Code §123.31]

Limitations

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

005 [25 Pa. Code §123.41]

Limitations

No person shall permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

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

006 [25 Pa. Code §123.42]

Exceptions

The emission limitations of Site Level Condition #005, shall not apply when:

SECTION C. Site Level Requirements

- (a). The presence of uncombined water is the only reason for failure to meet the limitations.
- (b). The emission results from the sources specified in Site Level Condition #002.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit emissions of hazardous air pollutants (HAPs) from this facility as follows:

- (a). Less than 10 tons per year on a 12-month rolling sum basis for a single HAP.
- (b). Less than 25 tons per year on a 12-month rolling sum basis for all HAP emissions combined.

008 [25 Pa. Code §129.14]

Open burning operations

No person shall permit the open burning of material in the Southeast Air Basin, except when the open burning results from:

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

II. TESTING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The Department reserves the right to require exhaust stack testing of any source as necessary during the permit term to verify emissions for purposes including emission fees, malfunctions, or permit condition violations.
- (b) Upon the request of the Department, such tests shall be conducted in accordance with the latest version of the Department's Source Testing Manual and 25 Pa. Code Chapter 139.

III. MONITORING REQUIREMENTS.

010 [25 Pa. Code §123.43]

Measuring techniques

Visible emissions shall be measured by using either of the following:

- (a) A device approved by the Department and maintained to provide accurate opacity measurements.
- (b) Observers, trained and qualified to measure plume opacity with the naked eye, per EPA Method 9 or with the aid of any devices approved by the Department.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

SECTION C. Site Level Requirements

- (a). The permittee shall monitor the facility, once per operating day, for the following:
 - (1). Odors, which the Department may determine to be objectionable.
 - (2). Visible Emissions.
 - (3). Fugitive Particulate Matter.
- (b). All detectable emissions, and/or objectionable odors, that originated on-site shall:
 - (1). Be investigated.
 - (2). Be reported to the facility management, or individual(s) designated by the permittee.
 - (3). Have appropriate action taken (for emissions that originate on-site).
 - (4). Be recorded in a media approved by the Department.
- (c). At the end of six months, 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). At the end of the second six month period, upon the permittee's request, the Department will determine the feasibility of decreasing the frequency of monitoring to monthly.
- (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 and the semi-annual report of monitoring and record keeping, complaints, monitoring results, and/or Department findings.

IV. RECORDKEEPING REQUIREMENTS.

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

Records on the type and amount of training provided to each operator shall be kept on site.

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

[Additional authority for this permit condition was also derived from 25 Pa. Code Section 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.

014 [25 Pa. Code §127.511] Monitoring and related recordkeeping and reporting requirements.

(a). The permittee shall maintain a logbook for recording the status of odorous air contaminants and visible emission exceedances. The logbook shall include the name of the company representative, the date and the time the monitoring was conducted, wind direction, and any corrective actions that were taken.

(b). All records shall be maintained for each calendar year (January 1 through December 31) and retained for at least five years.

SECTION C. Site Level Requirements

V. REPORTING 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 § 127.511(c).]

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).

016 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

- (a). The permittee shall, within two (2) hours of discovery 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 of a regulation contained in 25 Pa. Code Article III.
- (b). Malfunction(s) which occur at this 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; and
 - (4). any corrective action taken.

[For purposes of compliance with this condition in this permit and in accordance with the conditions of 40 C.F.R. § 60.2, the term malfunction shall mean any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner.]

017 [25 Pa. Code §135.21]

Emission statements

The permittee shall submit by March 1, of each year, a source report for the preceding calendar year (January 1 through December 31). The report shall include information for the previously reported sources, new sources which were first operated during the preceding calendar year and sources modified during the same period which were not previously reported.

VI. WORK PRACTICE REQUIREMENTS.

018 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

A person responsible for any source specified in Section C, Condition #002, shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (a). Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.

SECTION C. Site Level Requirements

- (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.

019 [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 82, Subpart F, Recycling and Emissions Reduction.

VII. ADDITIONAL REQUIREMENTS.

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

Rule Effectiveness

- (a). The permittee shall provide introductory training to all new employees and refresher training on the proper operation and maintenance of the source/control device. The company shall keep records of the type and the amount of training provided to each operator. The records shall be maintained for a minimum of 5 years and be made available to the Department upon request.
- (b). The source(s) and air pollution control device(s) shall be operated and maintained in a manner consistent with the Master Operations and Maintenance Instructions (O & M) supplied by the manufacturer. A copy of the O & M instructions shall be kept at the facility. The records shall be kept for a minimum of five years and be made available to the Department upon request.
- (c). The permittee shall maintain a copy of the current training schedule and outline of the O&M Instruction Manual at the facility and these documents shall be made available to the Department upon request.

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: 031

Source Name: BOILER 1

Source Capacity/Throughput:

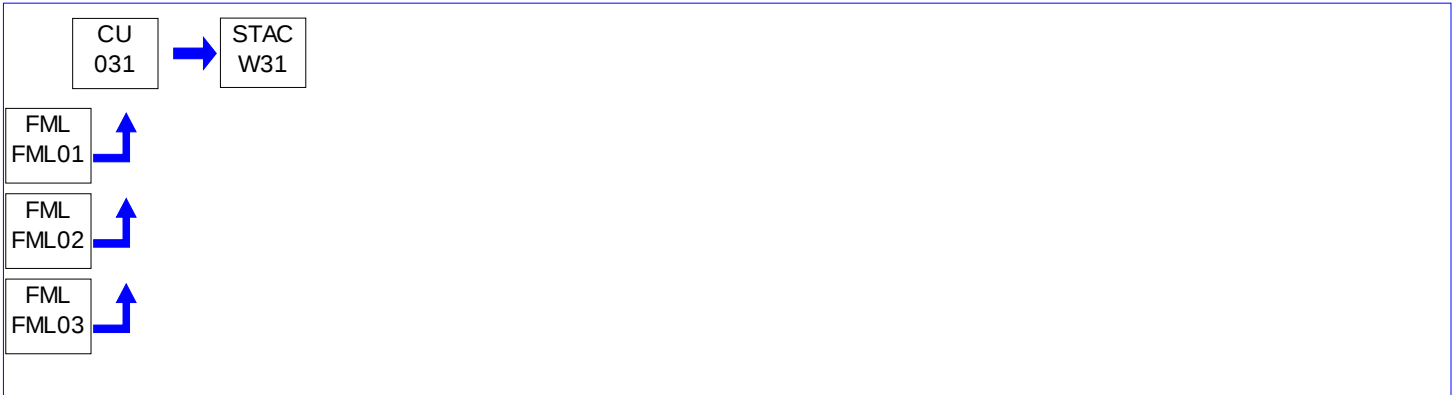
6.000 MMBTU/HR

5.950 MCF/HR

65.700 Gal/HR

NATURAL GAS

PROPANE



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.11]

Combustion units

A person may not permit the emission into the outdoor atmosphere of particulate matter from a 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 §123.22]

Combustion units

No person shall permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from a combustion unit, in excess of the rate of 1.2 pounds per million Btu of heat input, over any 1-hour period.

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

Fuel Restriction(s).

003 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall use natural gas as the primary fuel or propane as the secondary fuel for the operation of this boiler.

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.

When this boiler is in operation, the permittee shall monitor the following on a monthly basis:

(a). The type of fuel used.

SECTION D. Source Level Requirements

- (b). The amount of fuel used.
- (c). The hours of operation.

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

- (a). When the boiler listed above is in operation, the permittee shall keep records of the following on a monthly basis:
 - (1). The type of fuel used.
 - (2). The amount of fuel used.
 - (3). The hours of operation.
- (b). The permittee shall calculate and record the amount of pollutants emitted from this boiler on a monthly basis.
- (c). The permittee shall calculate the total amount of fuel used, the total amount of hours of operation, and the total amount of each pollutant emitted on a 12-month rolling basis.

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

[Additional authority for the following condition is derived from
25 Pa. Code § 129.93.]

The permittee shall operate and maintain this boiler in accordance with manufacturers specifications.

VII. ADDITIONAL REQUIREMENTS.

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

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

SECTION D. Source Level Requirements

Source ID: 032

Source Name: BOILERS 2 & 3

Source Capacity/Throughput:

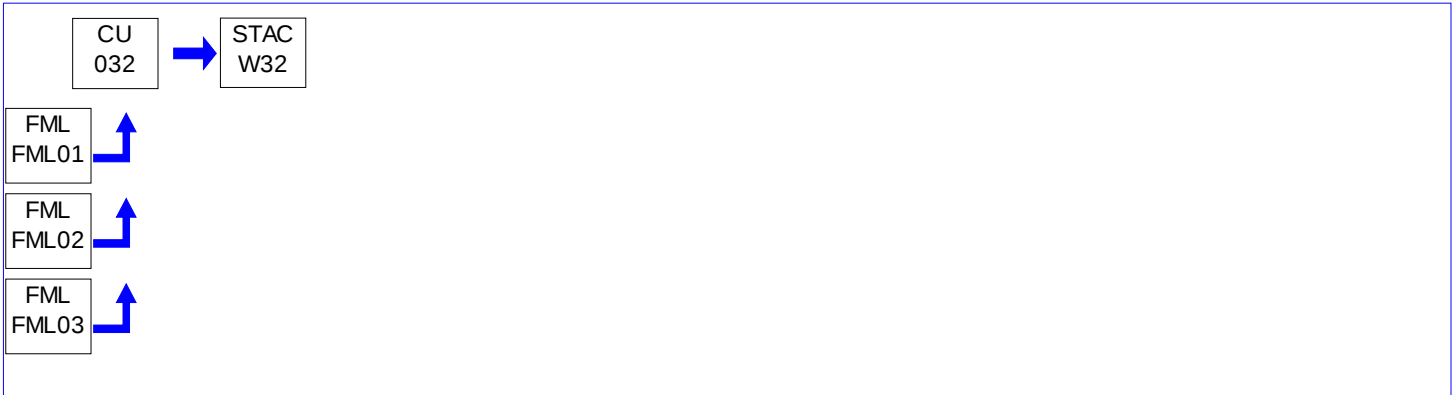
5.100 MMBTU/HR

4.857 MCF/HR

Natural Gas

58.511 Gal/HR

Propane



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.22]

Combustion units

No person shall permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from each of the above boilers, in excess of the rate of 1.2 pounds per million Btu of heat input, over any 1-hour period.

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

002 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall use natural gas as the primary fuel or propane as the secondary fuel in the operation of each of the above boilers.

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.

When this boiler is in operation, the permittee shall monitor the following on a monthly basis:

- The type of fuel used.
- The amount of fuel used.
- The hours of operation.

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

SECTION D. Source Level Requirements**Operating permit terms and conditions.**

- (a). When this boiler is in operation, the permittee shall keep records of the following on a monthly basis:
- (1). The type of fuel used.
 - (2). The amount of fuel used.
 - (3). The hours of operation.
- (b). The permittee shall calculate and record the amount of pollutants emitted from this boiler on a monthly basis.
- (c). The permittee shall calculate the total amount of fuel used, the total amount of hours of operation, and the total amount of each pollutant emitted on a 12-month rolling basis.

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.

[Additional authority for the following condition is derived from
25 Pa. Code § 129.93.]

The permittee shall operate and maintain each of the above boilers in accordance with the manufacturers specifications.

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

There are two boilers listed under this source (Boiler No. 2 and Boiler No. 3). Each boiler has a heat input of 5.10 MMBTU/hour.

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

SECTION D. Source Level Requirements

Source ID: 033

Source Name: PUMPHOUSE BOILER 4

Source Capacity/Throughput: 1.800 MMBTU/HR
12.857 Gal/HR #2 Oil



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.22]

Combustion units

No person shall permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from the above boiler in excess of the rate of 1.2 pounds per million btu of heat input over any 1-hour period.

Fuel Restriction(s).

002 [25 Pa. Code §123.22]

Combustion units

The use of fuel oil in the above boiler shall not exceed a sulfur content of 0.3 percent by weight.

Beginning July 1, 2016, the maximum sulfur content in commercial fuel oil shall not exceed 0.05%by weight, except as specified in subparagraphs (ii) and (iii) of 25 Pa. Code § 123.22(e)(2).

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

003 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall operate the above combustion unit on Commercial No. 2 Fuel Oil (virgin No. 2 Fuel Oil with no addition of waste oil) as the primary fuel or propane as the secondary fuel.

II. TESTING REQUIREMENTS.

004 [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 testing requirements in subpart (a), above, shall be waived in the event that a delivery receipt from the supplier, showing the percent sulfur in the fuel, is obtained each time a fuel oil delivery is made.

SECTION D. Source Level Requirements**III. MONITORING REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

When this boiler is in operation, the permittee shall monitor the following on a monthly basis:

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

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

(a). When this boiler is in operation, the permittee shall keep records of the following on a monthly basis:

- (1). The type of fuel used.
- (2). The amount of fuel used.
- (3). The hours of operation.

(b). The permittee shall calculate and record the amount of pollutants emitted from this boiler on a monthly basis.

(c). The permittee shall calculate the total amount of fuel used, the total amount of hours of operation, and the total amount of each pollutant emitted on a 12-month rolling basis.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.11225(c).]

The permittee shall maintain the following records when this source is in operation.

(a). As required in 40 C.F.R. § 63.10(b)(2)(xiv), the permittee shall keep a copy of each notification and report that you submitted to comply with this subpart and all documentation supporting any Initial Notification or Notification of Compliance Status that the permittee submitted.

(b). The permittee shall keep records to document conformance with the work practices, emission reduction measures, and management practices required by 40 C.F.R. § 63.11214 as specified in paragraphs (b)(1) and (b)(2) below.

(1). Records must identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned.

(2). Records documenting the fuel type(s) used monthly by each boiler, including, but not limited to, a description of the fuel and the total fuel usage amount with units of measure.

(c). Records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment.

(d). Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 C.F.R. § 63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation.

SECTION D. Source Level Requirements

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.11225(d).]

The records shall be in a form suitable and readily available for expeditious review, according to 40 C.F.R. § 63.10(b)(1). As specified in 40 C.F.R. § 63.10(b)(1), the permittee shall keep each record for 5 years following the date of each recorded action. The permittee shall keep each record onsite for at least 2 years after the date of each recorded action according to 40 C.F.R. § 63.10(b)(1). The permittee may keep the records off site for the remaining 3 years.

009 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

In demonstrating compliance with condition #002(b) above, the permittee shall maintain records of fuel oil analysis, or fuel supplier certifications for all fuel oil deliveries for the most recent five year period.

V. REPORTING REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.11225(a).]

The permittee shall submit the notifications specified in paragraphs (a) through (c) below to the U.S. EPA and the Department.

(a). The permittee shall submit all of the notifications in 40 C.F.R. §§ 63.7(b); 63.8(e) and (f); 63.9(b) through (e); and 63.9(g) and (h) that apply to you by the dates specified in those sections.

(b). The permittee must submit the Initial Notification by January 20, 2014 in accordance with the requirements of 40 C.F.R. § 63.11225(a)(2).

(c). The permittee must submit the Notification of Compliance Status in accordance with 40 C.F.R. § 63.9(h) no later than 120 days after March 21, 2014 as specified in 40 C.F.R. §§ 63.11196 and 63.11225(a)(4). In addition to the information required in 40 C.F.R. § 63.9(h)(2), the notification shall include the following certification of compliance, as applicable, and signed by a responsible official:

"This facility complies with the requirements in 40 C.F.R. § 63.11214 to conduct an initial tune-up of the boiler."

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.11225(b).]

(a). For boilers that are subject only to a requirement to conduct a tune-up every five years in accordance with 40 C.F.R. § 63.11223(e) and not subject to emission limits or operating limits, the permittee shall prepare a compliance report as specified in paragraphs (1) through (2) below.

(1). Company name and address.

(2). Statement by a responsible official, with the official's name, title, phone number, e-mail address, and signature, certifying the truth, accuracy and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of 40 C.F.R. Part 63, Subpart JJJJJJ. The notification shall include the following certification(s) of compliance, as applicable, and signed by a responsible official:

(i). "This facility complies with the requirements in 40 C.F.R. § 63.11223 to conduct a biennial or 5-year tune-up, as

SECTION D. Source Level Requirements

applicable, of each boiler.”

(ii). For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: “No secondary materials that are solid waste were combusted in any affected unit.”

(b). The certifications in paragraph (a) above shall be submitted to the U.S. EPA and the Department by March 1, 2019, and every 5 years on March 1 thereafter.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §63.11214(a).]

For an existing or new oil-fired boiler, the permittee shall conduct a performance tune-up according to 40 C.F.R. § 63.11223(b) and the permittee shall submit a signed statement in the Notification of Compliance Status Report that indicates that the permittee conducted a tune-up of the boiler as per the requirements under Condition #010(c) for this source.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.11225(g).]

If the permittee intends to switch fuels, and this fuel switch may result in the applicability of a different subcategory or a switch out of 40 C.F.R. Part 63, Subpart JJJJJJ due to a switch to 100 percent natural gas, the permittee shall provide 30 days prior notice of the date upon which the permittee will switch fuels. The notification must identify:

- (a). The name of the owner or operator of the affected source, the location of the source, the boiler(s) that will switch fuels, and the date of the notice.
- (b). The currently applicable subcategory under 40 C.F.R. Part 63, Subpart JJJJJJ.
- (c). The date on which the boiler became subject to the currently applicable standards.
- (d). The date upon which the permittee will commence the fuel switch.

014 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall submit records of all fuel oil analysis performed, or fuel supplier's certifications to the Department representative upon request.

VI. WORK PRACTICE REQUIREMENTS.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate and maintain this boiler in accordance with manufacturer's specifications and good air pollution control practices.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 63.11223(a), (b), and (e).]

(a). For affected sources subject to the work practice standard or the management practices of a tune-up, the permittee shall conduct a performance tune-up every five (5) years according to paragraphs (b) below and keep records as required in

SECTION D. Source Level Requirements

40 C.F.R. § 63.11225(c) to demonstrate continuous compliance. Each 5 year tune-up shall be conducted no more than 61 months after the previous tune-up.

(b). The permittee shall conduct a tune-up of the boiler every five years to demonstrate continuous compliance as follows.

(1). As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the permittee may delay the burner inspection until the next scheduled unit shutdown, but the permittee shall inspect each burner at least once every 72 months).

(2). Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.

(3). Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly.

(4). Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available.

(5). Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made).

(6). Maintain onsite and submit, if requested by the Administrator, a report containing the following information.

(i). The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured before and after the tune-up of the boiler.

(ii). A description of any corrective actions taken as a part of the tune-up of the boiler.

(iii). The type and amount of fuel used over the 12 months prior to the biennial tune-up of the boiler.

(7). If the unit is not operating on the required date for a tune-up, the tune-up shall be conducted within 30 days of startup.

VII. ADDITIONAL REQUIREMENTS.

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

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

SECTION D. Source Level Requirements

Source ID: 034

Source Name: BOILERS 5 & 6

Source Capacity/Throughput:

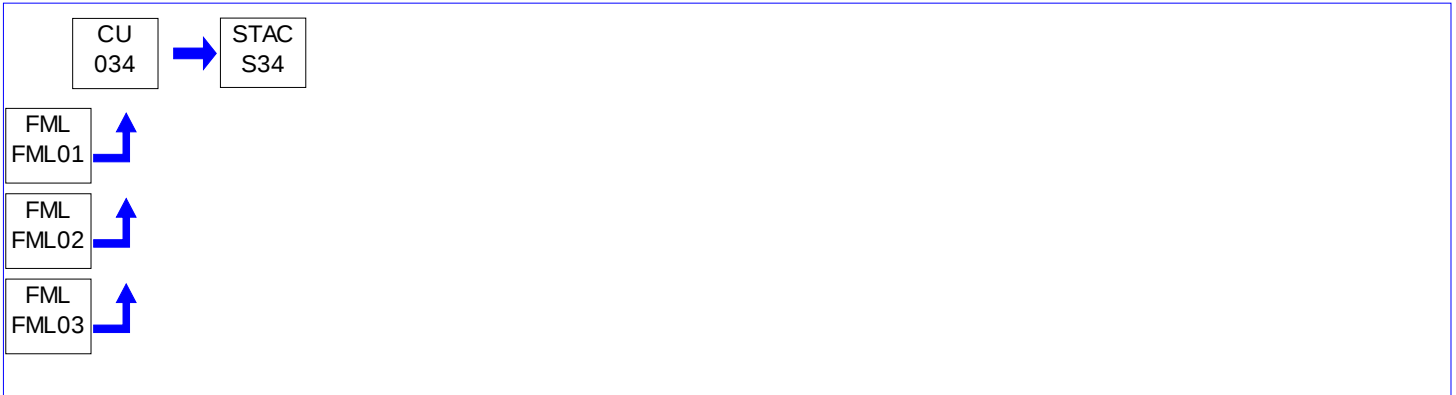
7.000 MMBTU/HR

6.670 MCF/HR

Natural Gas

77.000 Gal/HR

Propane



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.11]

Combustion units

A person may not permit the emission into the outdoor atmosphere of particulate matter from a 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 §123.22]

Combustion units

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).

Fuel Restriction(s).

003 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall use natural gas as the primary fuel for this boiler and propane as a back up fuel.

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.

When this boiler is in operation, the permittee shall monitor the following on a monthly basis:

- The type of fuel used.
- The amount of fuel used.

SECTION D. Source Level Requirements

(c). The hours of operation.

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

- (a). When the boiler listed above is in operation, the permittee shall keep records of the following on a monthly basis:
- (1). The type of fuel used.
 - (2). The amount of fuel used.
 - (3). The hours of operation.
- (b). The permittee shall calculate and record the amount of pollutants emitted from this boiler on a monthly basis.
- (c). The permittee shall calculate the total amount of fuel used, the total amount of hours of operation, and the total amount of each pollutant emitted on a 12-month rolling basis.

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

[Additional authority for the following condition is derived from
25 Pa. Code § 129.93.]

The permittee shall operate and maintain this source in accordance with manufacturers specifications.

VII. ADDITIONAL REQUIREMENTS.

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

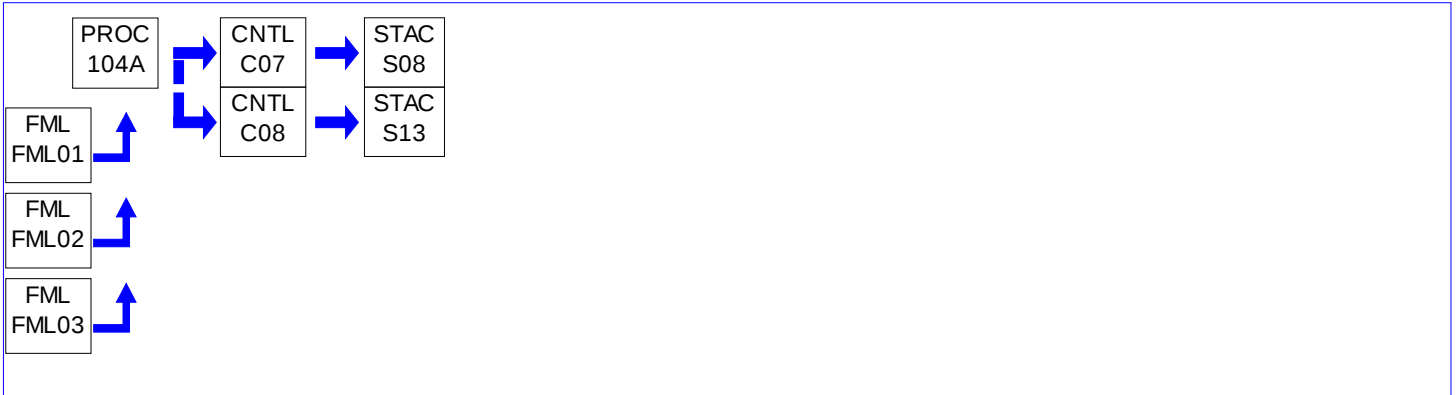
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 104A

Source Name: OFFSET PRESS 1004 W/DRYING OVEN

Source Capacity/Throughput:	8,800.000 CF/HR	Natural Gas
	98.000 Gal/HR	Propane
	322.000 Lbs/HR	INK



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from each source listed under Source Group 002C, at any time, in such 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

No person shall permit the emission into the outdoor atmosphere of sulfur oxides from each of the dryers associated with the printing presses listed in Source Group 002C 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 VOC emissions from Press #1004 shall not exceed a rate of 4.3 lbs/hr, 104.1 lbs/day, or 8.8 tons on a 12-month rolling basis.

Fuel Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each of the ovens associated with the offset printing presses listed under Source Group 002A shall be operated on natural gas or propane only.

Throughput Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not use surface coating agents that contain volatile organic compounds to coat the paper in the UV Coating Station associated with this press.

SECTION D. Source Level Requirements

II. TESTING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). As per the stack testing conditions under Section D, Source ID Nos. C07 and C08, the permittee shall conduct performance tests on the associated control devices and capture system to determine its reduction of VOC emissions 18 months prior to the expiration of this Title V Permit.

(b). Coating composition and usage records as required in Condition #004 under this source and Section E, Source Group No. 002A, Conditions #002, #004, and #005 are required for the Rule Effectiveness Program. These records shall be kept for a minimum of 5 years and shall be made available to the Department upon request.

007 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

(a). Subject to subparagraph (c) below, the permittee shall test their inks, solvents, etch solutions and fountain solutions, as applied for the following, in accordance with Method 24, as specified in 40 CFR part 60, Appendix A, or through an alternative method, which has been approved by the Department:

- (1). Volatile matter content.
- (2). Water content.
- (3). Density.
- (4). Volume solids.
- (5). Weight solids.

(b). Subject to subparagraph (c) below, the permittee shall test each coating for each delivery, except those that are delivered having the same lot or batch number that have been previously tested.

(c). The permittee may be exempt from the test mentioned in subparagraphs (a) and (b) above for all inks, solvents and fountain solutions used in this source if they are used as supplied and are supplied with a Certified Product Data Sheet (CPDS) or a Department approved documentation that is equivalent.

III. MONITORING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

For each source listed under Source Group 002C, the permittee shall monitor the following information on a monthly basis:

- (a). The type of fuel used.
- (b). The amount of fuel used.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Using a Department approved method, the permittee shall monitor the exhaust flow rate for this source.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following for the presses listed under Source Group No. 002C on a monthly basis:

- (a). The amount of fresh blanket wash solution that is used, and the amount of blanket wash that is generated as waste for each press.
- (b). The amount of fresh etch solution that is used, and the amount of etch solution that is generated as waste for each press.

SECTION D. Source Level Requirements

(c). The throughput of ink for each press.

011 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall monitor the following information for the above press:

- (a). monthly ink, etch solution, and clean-up solvent usage.
- (b). the VOC content and the density of the ink, the etch solution and the clean-up solvent as applied.
- (c). number of image impressions per press per day.
- (d). total operating hours per press per day.
- (e). the amount of VOC as waste shipped out and the date of the shipment.
- (f). the daily temperature of the gases in the thermal oxidizer combustion chamber.
- (g). sufficient data and calculations, including the calculations used to determine the average hourly and average daily VOC emissions, to clearly determine if the requirements for vapor pressure, VOC content of the etch solution, and VOC emission limitations for this press are being met.
- (h). The average hourly and average daily VOC emissions calculated in paragraph (g) above shall be calculated based on the actual monthly ink, etch solution, and clean-up solvent usage, the operating hours, and the number of image impressions.

IV. RECORDKEEPING REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a). Using a Department approved method, the permittee shall record the exhaust flow rate for this source.
- (b). The permittee shall verify that the thermal oxidizer(s) in operation have the capacity to handle the exhaust gas feed from Source ID Nos. 104A, 106A, and 112.
- (c). If a controller or control loop is used to prevent the overloading of the operating thermal oxidizer(s) in the press/thermal oxidizer system for compliance with paragraph(s) (a) and (b) above, then the permittee shall keep records of any manufacturer's statements or specifications verifying that the static pressure at the set point and location in the control loop prevents the exceedance of volume flow through the thermal oxidizer(s) that is/are in operation.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a). For each source listed under Source Group 002C, the permittee shall keep records of the following information on a monthly basis:
 - (1). The type of fuel used.
 - (2). The amount of fuel used.
- (b). The permittee shall calculate the total amount of pollutants emitted from the burning of fuel for each source listed under Source Group 002C on a monthly basis.
- (c). The permittee shall calculate the total amount of fuel used and the total amount of pollutants emitted from each source

SECTION D. Source Level Requirements

listed under Source Group 002C on a 12-month rolling basis.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the following for the presses listed under Source Group No. 002C on a monthly basis:

- (a). The amount of fresh blanket wash solution that is used, and the amount of blanket wash that is generated as waste for each press.
- (b). The amount of fresh etch solution that is used, and the amount of etch solution that is generated as waste for each press.
- (c). The throughput of ink for each press.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep Certified Product Data Sheets (CPDS) or Material Safety Data Sheets (MSDS) of the surface coating agents used in the UV Coating Station to demonstrate that these surface coating agents do not contain volatile organic compounds.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall calculate average hourly, daily, and monthly VOC emissions as a method of determining compliance with the VOC limitations stated in Condition #001 above.

017 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall keep records of the following information for the above press:

- (a). monthly ink, etch solution, and clean-up solvent usage.
- (b). the VOC content and the density of the ink, the etch solution and the clean-up solvent as applied.
- (c). number of image impressions per press per day.
- (d). total operating hours per press per day.
- (e). the amount of VOC as waste shipped out and the date of the shipment.
- (f). the daily temperature of the gases in the thermal oxidizer combustion chamber.
- (g). sufficient data and calculations, including the records for the calculations used to determine the average hourly and average daily VOC emissions, to clearly determine if the requirements for vapor pressure, VOC content of the etch solution, and VOC emission limitations for this press are being met.
- (h). The average hourly and average daily VOC emissions calculated in paragraph (g) above shall be calculated based on the actual monthly ink, etch solution, and clean-up solvent usage, the operating hours, and the number of image impressions.

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.

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

- (a) Cleaning towels shall be placed in closed containers immediately after each use.
- (b) The solvent laden towels shall be disposed of by acceptable means.

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

- (a). The blanket cleaning solution used in the printing presses listed under Source Group 002A shall meet one of the following requirements:
 - (1). The VOC composite vapor pressure, as used, shall be less than or equal to 10 mm Hg at 68 degrees Fahrenheit; or,
 - (2). The volatile organic compound (VOC) content, as applied, shall be less than or equal to 70 percent by weight.
- (b). The permittee shall limit the consumption of cleaning materials that do not meet the criteria listed in paragraph (a) above to 110 gallons per year on a 12-month rolling basis when performing cleaning tasks that cannot be carried out with cleaning solutions that meet the criteria listed in paragraph (a) above.

[This condition is derived from "Control Techniques Guidelines for Offset Lithographic Printing and Letterpress Printing" (EPA-453/R-06-002; September 2006).]

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

Each printing press listed under Source Group 002A and their associated thermal oxidizers shall be operated in accordance with manufacturer's specifications and good air pollution control practices.

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

The VOC content of the etch solution, as applied in the printing presses listed under Source Group 002A, shall not exceed 3 percent by weight and the alcohol content shall not exceed 1.6 percent by volume.

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

- (a). The thermal oxidizers associated with the printing presses listed under Source Group 002B shall be equipped with temperature monitoring and recording devices, which continuously indicate and record the temperatures of the combustion chamber or zone.
- (b). For the MEGTEC Thermal Oxidizer, the permittee shall maintain the set point temperature of the thermal oxidizer at 1,500 degrees Fahrenheit. Any fluctuations of the hourly average temperature from this set point temperature shall not be less than 1,490 degrees Fahrenheit in order to demonstrate compliance with the requirement for a minimum destruction efficiency of 98 percent by weight for VOC.
- (c). For the Langbein Engelbracht (L&E) Thermal Oxidizer, the permittee shall maintain the set point temperature of the thermal oxidizer at 1,500 degrees Fahrenheit. Any fluctuations of the hourly average temperature from this set point temperature shall not be less than 1,490 degrees Fahrenheit in order to demonstrate compliance with the requirement for a minimum destruction efficiency of 98 percent by weight for VOC.

SECTION D. Source Level Requirements

(d). This press shall not start applying inks, fountain solutions and cleaning solvents before the thermal oxidizer combustion chamber(s) have reached the required temperature stated in paragraphs (b) and (c) above.

(e). The thermal oxidizer in use when the printing presses listed under Source Group 002B shall not be bypassed, at any time, when the printing presses and/or dryers are in operation.

(f). The thermal oxidizer combustion chamber temperatures as described in paragraph(s) (b) and/or (c) above shall be maintained for at least 5 minutes after all of the printing presses and the ovens connected to the MEGTEC or L & E Thermal Oxidizers are shut off.

023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). When the combination of exhaust flows from Source ID Nos. 104A, 106A, and 112 exceed the capacity of any one thermal oxidizer, the presses shall not apply any ink, etch solution, or fountain solution before any two thermal oxidizer combustion zone temperatures reach the minimum temperature requirement of 1,490 degrees Fahrenheit on an hourly average for both the MEGTEC thermal oxidizer and the Langbein Engelbracht (L&E) thermal oxidizer.

(b). In the event that the combination of exhaust flows from the operation of Source ID Nos. 104A, 106A, and 112 is less than the capacity of a single thermal oxidizer used in controlling the VOC emissions from these presses, then only one thermal oxidizer with the capacity to handle the exhaust flow is required to be at the minimum combustion zone temperature prior to the start-up of the presses.

024 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The exhaust rate from the dryer associated with press #1004 shall not exceed an exhaust rate of 4,050 standard cubic feet per minute (scfm).

025 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The volatile organic compound (VOC) emissions from this press shall be controlled by the following thermal oxidizers:

- (1). MEGTEC Systems regenerative thermal oxidizer (MEGTEC), Model No. II250-95 (capacity is 25,000 scfm); and/or
- (2). Langbein Engelbracht regenerative thermal oxidizer (L & E), Model No. TR1592C (capacity is 15,000 scfm).

(b). The MEGTEC and L & E thermal oxidizers shall be used as the primary control devices.

VII. ADDITIONAL REQUIREMENTS.

026 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The following factors shall be used to calculate VOC emissions:

- (1). Ink VOC - 20 percent retention in the substrate, 100 percent capture of VOCs not retained in the substrate.
- (2). Automated Washing VOC - 40 percent capture
- (3). Etch Solution VOC - 70 percent capture

**SECTION D. Source Level Requirements**

(4). Automated Washing Cloth Retention - 33 percent

(5). Hand Washing Cloth Retention - 50 percent

(b). The above requirement is subject to Department review of the changes of the material used at this source.

027 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID No. 104A includes the following equipment:

(a). Printing Station.

(b). Drying Ovens.

(c). UV Coating Station.

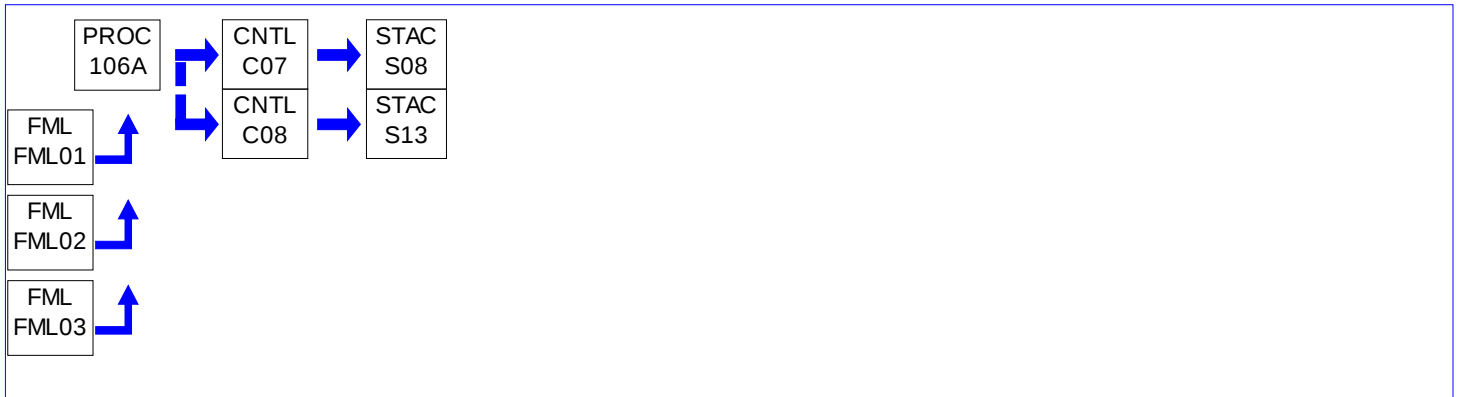
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 106A

Source Name: OFFSET PRESS 1006 W/DRYING OVEN

Source Capacity/Throughput:	10.800 MCF/HR	Natural Gas
	120.000 Gal/HR	Propane
	430.000 Lbs/HR	INK



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from each source listed under Source Group 002C, at any time, in such 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

No person shall permit the emission into the outdoor atmosphere of sulfur oxides from each of the dryers associated with the printing presses listed in Source Group 002C 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 VOC emissions from Press #1006 shall not exceed a rate of 7.1 lbs/hr, 169.7 lbs/day, or 9.7 tons per calendar year (January 1 through December 31).

Fuel Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each of the ovens associated with the offset printing presses listed under Source Group 002A shall be operated on natural gas or propane only.

II. TESTING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). As per the stack testing conditions under Section D, Source ID Nos. C07 and C08, the permittee shall conduct performance tests on the associated control devices and capture system to determine its reduction of VOC emissions 18 months prior to the expiration of this Title V Permit.

SECTION D. Source Level Requirements

(b) Coating composition and usage records as required in Section E, Source Group No. 002A, Conditions #002, #004, and #005 are required for the Rule Effectiveness Program. These records shall be kept for a minimum of 5 years and shall be made available to the Department upon request.

006 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

(a). Subject to subparagraph (c) below, the permittee shall test their inks, solvents, etch solutions and fountain solutions, as applied for the following, in accordance with Method 24, as specified in 40 CFR part 60, Appendix A, or through an alternative method, which has been approved by the Department:

- (1). Volatile matter content.
- (2). Water content.
- (3). Density.
- (4). Volume solids.
- (5). Weight solids.

(b). Subject to subparagraph (c) below, the permittee shall test each coating for each delivery, except those that are delivered having the same lot or batch number that have been previously tested.

(c). The permittee may be exempt from the test mentioned in subparagraphs (a) and (b) above for all inks, solvents and fountain solutions used in this source if they are used as supplied and are supplied with a Certified Product Data Sheet (CPDS) or a Department approved documentation that is equivalent.

III. MONITORING REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

For each source listed under Source Group 002C, the permittee shall monitor the following information on a monthly basis:

- (a). The type of fuel used.
- (b). The amount of fuel used.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Using a Department approved method, the permittee shall monitor the exhaust flow rate for this source.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following for the presses listed under Source Group No. 002C on a monthly basis:

- (a). The amount of fresh blanket wash solution that is used, and the amount of blanket wash that is generated as waste for each press.
- (b). The amount of fresh etch solution that is used, and the amount of etch solution that is generated as waste for each press.
- (c). The throughput of ink for each press.

010 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall monitor the following information for the above press:

SECTION D. Source Level Requirements

- (a). monthly ink, etch solution, and clean-up solvent usage.
- (b). the VOC content and the density of the ink, the etch solution and the clean-up solvent as applied.
- (c). number of image impressions per press per day.
- (d). total operating hours per press per day.
- (e). the amount of VOC as waste shipped out and the date of the shipment.
- (f). the daily temperature of the gases in the thermal oxidizer combustion chamber.
- (g). sufficient data and calculations, including the calculations used to determine the average hourly and average daily VOC emissions, to clearly determine if the requirements for vapor pressure, VOC content of the etch solution, and VOC emission limitations for this press are being met.
- (h). The average hourly and average daily VOC emissions calculated in paragraph (g) above shall be calculated based on the actual monthly ink, etch solution, and clean-up solvent usage, the operating hours, and the number of image impressions.

IV. RECORDKEEPING REQUIREMENTS.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a). Using a Department approved method, the permittee shall record the exhaust flow rate for this source.
- (b). The permittee shall verify that the thermal oxidizer(s) in operation have the capacity to handle the exhaust gas feed from Source ID Nos. 104A, 106A, and 112.
- (c). If a controller or control loop is used to prevent the overloading of the operating thermal oxidizer(s) in the press/thermal oxidizer system for compliance with paragraph(s) (a) and (b) above, then the permittee shall keep records of any manufacturer's statements or specifications verifying that the static pressure at the set point and location in the control loop prevents the exceedance of volume flow through the thermal oxidizer(s) that is/are in operation.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a). For each source listed under Source Group 002C, the permittee shall keep records of the following information on a monthly basis:
 - (1). The type of fuel used.
 - (2). The amount of fuel used.
- (b). The permittee shall calculate the total amount of pollutants emitted from the burning of fuel for each source listed under Source Group 002C on a monthly basis.
- (c). The permittee shall calculate the total amount of fuel used and the total amount of pollutants emitted from each source listed under Source Group 002C on a 12-month rolling basis.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- The permittee shall keep records of the following for the presses listed under Source Group No. 002C on a monthly basis:
- (a). The amount of fresh blanket wash solution that is used, and the amount of blanket wash that is generated as waste for each press.

SECTION D. Source Level Requirements

(b). The amount of fresh etch solution that is used, and the amount of etch solution that is generated as waste for each press.

(c). The throughput of ink for each press.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall calculate average hourly, daily, and monthly VOC emissions as a method of determining compliance with the VOC limitations stated in Condition #001 above.

015 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall keep records of the following information for the above press:

- (a). monthly ink, etch solution, and clean-up solvent usage.
- (b). the VOC content and the density of the ink, the etch solution and the clean-up solvent as applied.
- (c). number of image impressions per press per day.
- (d). total operating hours per press per day.
- (e). the amount of VOC as waste shipped out and the date of the shipment.
- (f). the daily temperature of the gases in the thermal oxidizer combustion chamber.
- (g). sufficient data and calculations, including the records for the calculations used to determine the average hourly and average daily VOC emissions, to clearly determine if the requirements for vapor pressure, VOC content of the etch solution, and VOC emission limitations for this press are being met.
- (h). The average hourly and average daily VOC emissions calculated in paragraph (g) above shall be calculated based on the actual monthly ink, etch solution, and clean-up solvent usage, the operating hours, and the number of image impressions.

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.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) Cleaning towels shall be placed in closed containers immediately after each use.
- (b) The solvent laden towels shall be disposed of by acceptable means.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a). The blanket cleaning solution used in the printing presses listed under Source Group 002A shall meet one of the following requirements:

SECTION D. Source Level Requirements

- (1). The VOC composite vapor pressure, as used, shall be less than or equal to 10 mm Hg at 68 degrees Fahrenheit; or,
- (2). The volatile organic compound (VOC) content, as applied, shall be less than or equal to 70 percent by weight.

(b). The permittee shall limit the consumption of cleaning materials that do not meet the criteria listed in paragraph (a) above to 110 gallons per year on a 12-month rolling basis when performing cleaning tasks that cannot be carried out with cleaning solutions that meet the criteria listed in paragraph (a) above.

[This condition is derived from "Control Techniques Guidelines for Offset Lithographic Printing and Letterpress Printing" (EPA-453/R-06-002; September 2006).]

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each printing press listed under Source Group 002A and their associated thermal oxidizers shall be operated in accordance with manufacturer's specifications and good air pollution control practices.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The VOC content of the etch solution, as applied in the printing presses listed under Source Group 002A, shall not exceed 3 percent by weight and the alcohol content shall not exceed 1.6 percent by volume.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The thermal oxidizers associated with the printing presses listed under Source Group 002B shall be equipped with temperature monitoring and recording devices, which continuously indicate and record the temperatures of the combustion chamber or zone.

(b). For the MEGTEC Thermal Oxidizer, the permittee shall maintain the set point temperature of the thermal oxidizer at 1,500 degrees Fahrenheit. Any fluctuations of the hourly average temperature from this set point temperature shall not be less than 1,490 degrees Fahrenheit in order to demonstrate compliance with the requirement for a minimum destruction efficiency of 98 percent by weight for VOC.

(c). For the Langbein Engelbracht (L&E) Thermal Oxidizer, the permittee shall maintain the set point temperature of the thermal oxidizer at 1,500 degrees Fahrenheit. Any fluctuations of the hourly average temperature from this set point temperature shall not be less than 1,490 degrees Fahrenheit in order to demonstrate compliance with the requirement for a minimum destruction efficiency of 98 percent by weight for VOC.

(d). This press shall not start applying inks, fountain solutions and cleaning solvents before the thermal oxidizer combustion chamber(s) have reached the required temperature stated in paragraphs (b) and (c) above.

(e). The thermal oxidizer in use when the printing presses listed under Source Group 002B shall not be bypassed, at any time, when the printing presses and/or dryers are in operation.

(f). The thermal oxidizer combustion chamber temperatures as described in paragraph(s) (b) and/or (c) above shall be maintained for at least 5 minutes after all of the printing presses and the ovens connected to the MEGTEC or L & E Thermal Oxidizers are shut off.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). When the combination of exhaust flows from Source ID Nos. 104A, 106A, and 112 exceed the capacity of any one thermal oxidizer, the presses shall not apply any ink, etch solution, or fountain solution before any two thermal oxidizer combustion zone temperatures reach the minimum temperature requirement of 1,490 degrees Fahrenheit on an hourly

SECTION D. Source Level Requirements

average for both the MEGTEC thermal oxidizer and the Langbein Engelbracht (L&E) thermal oxidizer.

(b). In the event that the combination of exhaust flows from the operation of Source ID Nos. 104A, 106A, and 112 is less than the capacity of a single thermal oxidizer used in controlling the VOC emissions from these presses, then only one thermal oxidizer with the capacity to handle the exhaust flow is required to be at the minimum combustion zone temperature prior to the start-up of the presses.

022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The exhaust rate from the dryer associated with press #1006 shall not exceed an exhaust rate of 4,050 standard cubic feet per minute (scfm).

023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The volatile organic compound (VOC) emissions from this press shall be controlled by the following thermal oxidizers:

- (1). MEGTEC Systems regenerative thermal oxidizer (MEGTEC), Model No. II250-95 (capacity is 25,000 scfm); and/or
- (2). Langbein Engelbracht regenerative thermal oxidizer (L & E), Model No. TR1592C (capacity is 15,000 scfm); and/or

(b). The MEGTEC and L & E thermal oxidizers shall be used as the primary control devices.

VII. ADDITIONAL REQUIREMENTS.

024 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The following factors shall be used to calculate VOC emissions:

- (1). Ink VOC - 20 percent retention in the substrate, 100 percent capture of VOCs not retained in the substrate.
- (2). Automated Washing VOC - 40 percent capture
- (3). Etch Solution VOC - 70 percent capture
- (4). Automated Washing Cloth Retention - 33 percent
- (5). Hand Washing Cloth Retention - 50 percent

(b). The above requirement is subject to Department review of the changes of the material used at this source.

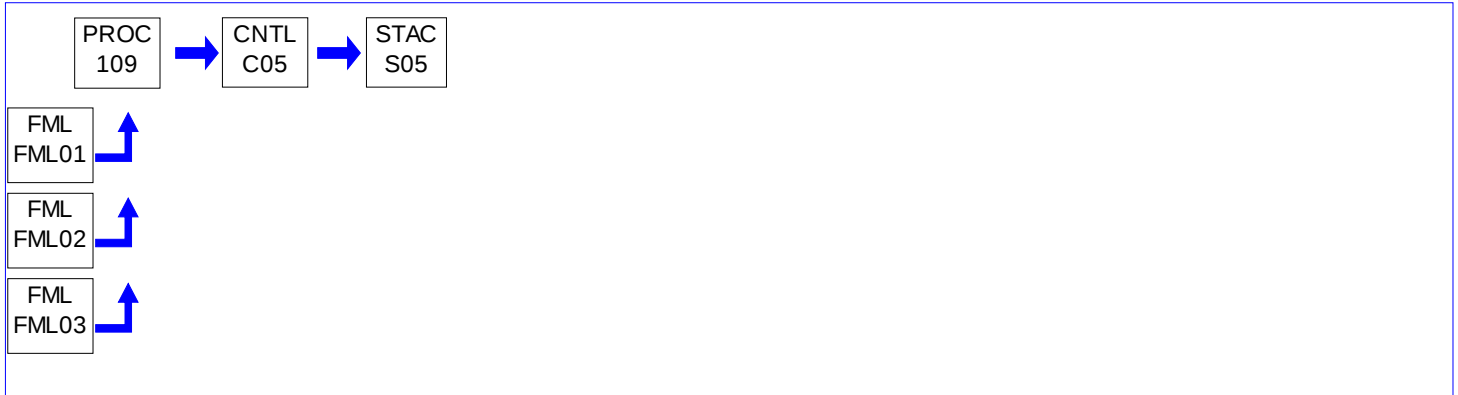
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 109

Source Name: OFFSET PRESS 1009 W/DRYING OVEN

Source Capacity/Throughput:	11.800 MCF/HR	Natural Gas
	131.000 Gal/HR	Propane
	821.000 Lbs/HR	INK



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from each source listed under Source Group 002C, at any time, in such 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

No person shall permit the emission into the outdoor atmosphere of sulfur oxides from each of the dryers associated with the printing presses listed in Source Group 002C 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 VOC emissions from Press #1009 shall not exceed a rate of 7.0 lbs/hr (average hourly rate), 167.0 lbs/day, or 9.3 tons on a 12-month rolling basis.

Fuel Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each of the ovens associated with the offset printing presses listed under Source Group 002A shall be operated on natural gas or propane only.

II. TESTING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The permittee shall conduct performance tests on the associated control devices and capture system to determine its reduction of VOC emissions 18 months prior to the expiration of this Title V Permit.

SECTION D. Source Level Requirements

(b) Coating composition and usage records as required in Section E, Source Group No. 002A, Conditions #002, #004, and #005 are required for the Rule Effectiveness Program. These records shall be kept for a minimum of 5 years and shall be made available to the Department upon request.

006 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

(a). Subject to subparagraph (c) below, the permittee shall test their inks, solvents, etch solutions and fountain solutions, as applied for the following, in accordance with Method 24, as specified in 40 CFR part 60, Appendix A, or through an alternative method, which has been approved by the Department:

- (1). Volatile matter content.
- (2). Water content.
- (3). Density.
- (4). Volume solids.
- (5). Weight solids.

(b). Subject to subparagraph (c) below, the permittee shall test each coating for each delivery, except those that are delivered having the same lot or batch number that have been previously tested.

(c). The permittee may be exempt from the test mentioned in subparagraphs (a) and (b) above for all inks, solvents and fountain solutions used in this source if they are used as supplied and are supplied with a Certified Product Data Sheet (CPDS) or a Department approved documentation that is equivalent.

III. MONITORING REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

For each source listed under Source Group 002C, the permittee shall monitor the following information on a monthly basis:

- (a). The type of fuel used.
- (b). The amount of fuel used.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Using a Department approved method, the permittee shall monitor the exhaust flow rate for this source.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following for the presses listed under Source Group No. 002C on a monthly basis:

- (a). The amount of fresh blanket wash solution that is used, and the amount of blanket wash that is generated as waste for each press.
- (b). The amount of fresh etch solution that is used, and the amount of etch solution that is generated as waste for each press.
- (c). The throughput of ink for each press.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall calculate average hourly, daily, and monthly VOC emissions as a method of determining compliance with the VOC limitations stated in Condition #001 above.

SECTION D. Source Level Requirements

011 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall monitor the following information for the above press:

- (a). monthly ink, etch solution, and clean-up solvent usage.
- (b). the VOC content and the density of the ink, the etch solution and the clean-up solvent as applied.
- (c). number of image impressions per press per day.
- (d). total operating hours per press per day.
- (e). the amount of VOC as waste shipped out and the date of the shipment.
- (f). the daily temperature of the gases in the thermal oxidizer combustion chamber.
- (g). sufficient data and calculations, including the calculations used to determine the average hourly and average daily VOC emissions, to clearly determine if the requirements for vapor pressure, VOC content of the etch solution, and VOC emission limitations for this press are being met.
- (h). The average hourly and average daily VOC emissions calculated in paragraph (g) above shall be calculated based on the actual monthly ink, etch solution, and clean-up solvent usage, the operating hours, and the number of image impressions.

IV. RECORDKEEPING REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a). For each source listed under Source Group 002C, the permittee shall keep records of the following information on a monthly basis:
 - (1). The type of fuel used.
 - (2). The amount of fuel used.
- (b). The permittee shall calculate the total amount of pollutants emitted from the burning of fuel for each source listed under Source Group 002C on a monthly basis.
- (c). The permittee shall calculate the total amount of fuel used and the total amount of pollutants emitted from each source listed under Source Group 002C on a 12-month rolling basis.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the following for the presses listed under Source Group No. 002C on a monthly basis:

- (a). The amount of fresh blanket wash solution that is used, and the amount of blanket wash that is generated as waste for each press.
- (b). The amount of fresh etch solution that is used, and the amount of etch solution that is generated as waste for each press.
- (c). The throughput of ink for each press.

SECTION D. Source Level Requirements

014 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall keep records of the following information for the above press:

- (a). monthly ink, etch solution, and clean-up solvent usage.
- (b). the VOC content and the density of the ink, the etch solution and the clean-up solvent as applied.
- (c). number of image impressions per press per day.
- (d). total operating hours per press per day.
- (e). the amount of VOC as waste shipped out and the date of the shipment.
- (f). the daily temperature of the gases in the thermal oxidizer combustion chamber.
- (g). sufficient data and calculations, including the records for the calculations used to determine the average hourly and average daily VOC emissions, to clearly determine if the requirements for vapor pressure, VOC content of the etch solution, and VOC emission limitations for this press are being met.
- (h). The average hourly and average daily VOC emissions calculated in paragraph (g) above shall be calculated based on the actual monthly ink, etch solution, and clean-up solvent usage, the operating hours, and the number of image impressions.

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.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) Cleaning towels shall be placed in closed containers immediately after each use.
- (b) The solvent laden towels shall be disposed of by acceptable means.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a). The blanket cleaning solution used in the printing presses listed under Source Group 002A shall meet one of the following requirements:
 - (1). The VOC composite vapor pressure, as used, shall be less than or equal to 10 mm Hg at 68 degrees Fahrenheit; or,
 - (2). The volatile organic compound (VOC) content, as applied, shall be less than or equal to 70 percent by weight.
- (b). The permittee shall limit the consumption of cleaning materials that do not meet the criteria listed in paragraph (a) above to 110 gallons per year on a 12-month rolling basis when performing cleaning tasks that cannot be carried out with cleaning solutions that meet the criteria listed in paragraph (a) above.

[This condition is derived from "Control Techniques Guidelines for Offset Lithographic Printing and Letterpress Printing" (EPA-453/R-06-002; September 2006).]

SECTION D. Source Level Requirements

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each printing press listed under Source Group 002A and their associated thermal oxidizers shall be operated in accordance with manufacturer's specifications and good air pollution control practices.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The VOC content of the etch solution, as applied in the printing presses listed under Source Group 002A, shall not exceed 3 percent by weight and the alcohol content shall not exceed 1.6 percent by volume.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a). This printing press and thermal oxidizer shall be operated in accordance with the manufacturer's specifications and good air pollution control practices.
- (b). The thermal oxidizer shall be equipped with temperature monitoring and recording devices, which continuously indicate and record the temperatures of the combustion chamber or zone.
- (c). The permittee shall operate the Stork Contiweb, Model No. 121-1460 thermal oxidizer, in such a manner, that the temperature of the combustion chamber is maintained at a minimum of 1400 degrees Fahrenheit to assure a destruction efficiency of 99 percent.
- (d). This press shall not start applying inks, fountain solutions and cleaning solvents before the thermal oxidizer combustion chamber(s) have reached the required temperature as stated in condition (c) above.
- (e). The thermal oxidizer shall not be bypassed, at any time, when the presses and/or dryers are in operation.
- (f). The VOC content of the etch solution, as applied, shall not exceed 3 percent by weight and the alcohol content shall not exceed 1.6 percent by volume.
- (g). The thermal oxidizer combustion chamber temperature as described in condition (c) above shall be maintained for at least 5 minutes after the press and the ovens are shut off.
- (h). The average hourly and average daily VOC emissions shall be calculated based on the actual monthly ink, etch solution, and clean-up solvent usage, the operating hours, and the number of image impressions.

VII. ADDITIONAL REQUIREMENTS.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a). The following factors shall be used to calculate VOC emissions:
 - (1). Ink VOC - 20 percent retention in the substrate, 100 percent capture of VOCs not retained in the substrate.
 - (2). Automated Washing VOC - 40 percent capture
 - (3). Etch Solution VOC - 70 percent capture
 - (4). Automated Washing Cloth Retention - 33 percent
 - (5). Hand Washing Cloth Retention - 50 percent

**SECTION D. Source Level Requirements**

(b). The above requirement is subject to Department review of the changes of the material used at this source.

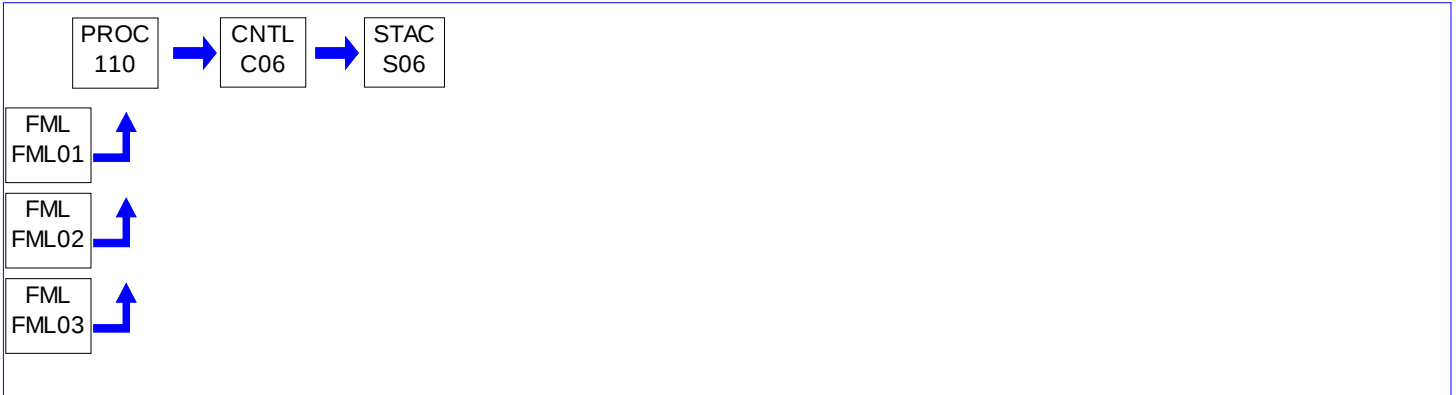
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 110

Source Name: OFFSET PRESS 1010 W/DRYING OVEN

Source Capacity/Throughput:	11.800 MCF/HR	Natural Gas
	131.000 Gal/HR	Propane
	929.000 Lbs/HR	INK



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from each source listed under Source Group 002C, at any time, in such 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

No person shall permit the emission into the outdoor atmosphere of sulfur oxides from each of the dryers associated with the printing presses listed in Source Group 002C 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 VOC emissions from Press #1010 shall not exceed 10.6 tons on a 12-month rolling basis.

Fuel Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each of the ovens associated with the offset printing presses listed under Source Group 002A shall be operated on natural gas or propane only.

II. TESTING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The permittee shall conduct performance tests on the associated control devices and capture system to determine its reduction of VOC emissions 18 months prior to the expiration of this Title V Permit.

(b) Coating composition and usage records as required in Section E, Source Group No. 002A, Conditions #002, #004, and #005 are required for the Rule Effectiveness Program. These records shall be kept for a minimum of 5 years and shall be

SECTION D. Source Level Requirements

made available to the Department upon request.

006 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

(a). Subject to subparagraph (c) below, the permittee shall test their inks, solvents, etch solutions and fountain solutions, as applied for the following, in accordance with Method 24, as specified in 40 CFR part 60, Appendix A, or through an alternative method, which has been approved by the Department:

- (1). Volatile matter content.
- (2). Water content.
- (3). Density.
- (4). Volume solids.
- (5). Weight solids.

(b). Subject to subparagraph (c) below, the permittee shall test each coating for each delivery, except those that are delivered having the same lot or batch number that have been previously tested.

(c). The permittee may be exempt from the test mentioned in subparagraphs (a) and (b) above for all inks, solvents and fountain solutions used in this source if they are used as supplied and are supplied with a Certified Product Data Sheet (CPDS) or a Department approved documentation that is equivalent.

III. MONITORING REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

For each source listed under Source Group 002C, the permittee shall monitor the following information on a monthly basis:

- (a). The type of fuel used.
- (b). The amount of fuel used.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Using a Department approved method, the permittee shall monitor the exhaust flow rate for this source.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following for the presses listed under Source Group No. 002C on a monthly basis:

- (a). The amount of fresh blanket wash solution that is used, and the amount of blanket wash that is generated as waste for each press.
- (b). The amount of fresh etch solution that is used, and the amount of etch solution that is generated as waste for each press.
- (c). The throughput of ink for each press.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall calculate average hourly, daily, and monthly VOC emissions as a method of determining compliance with the VOC limitations stated in Condition #001 above.

SECTION D. Source Level Requirements

011 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall monitor the following information for the above press:

- (a). monthly ink, etch solution, and clean-up solvent usage.
- (b). the VOC content and the density of the ink, the etch solution and the clean-up solvent as applied.
- (c). number of image impressions per press per day.
- (d). total operating hours per press per day.
- (e). the amount of VOC as waste shipped out and the date of the shipment.
- (f). the daily temperature of the gases in the thermal oxidizer combustion chamber.
- (g). sufficient data and calculations, including the calculations used to determine the average hourly and average daily VOC emissions, to clearly determine if the requirements for vapor pressure, VOC content of the etch solution, and VOC emission limitations for this press are being met.
- (h). The average hourly and average daily VOC emissions calculated in paragraph (g) above shall be calculated based on the actual monthly ink, etch solution, and clean-up solvent usage, the operating hours, and the number of image impressions.

IV. RECORDKEEPING REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a). For each source listed under Source Group 002C, the permittee shall keep records of the following information on a monthly basis:
 - (1). The type of fuel used.
 - (2). The amount of fuel used.
- (b). The permittee shall calculate the total amount of pollutants emitted from the burning of fuel for each source listed under Source Group 002C on a monthly basis.
- (c). The permittee shall calculate the total amount of fuel used and the total amount of pollutants emitted from each source listed under Source Group 002C on a 12-month rolling basis.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the following for the presses listed under Source Group No. 002C on a monthly basis:

- (a). The amount of fresh blanket wash solution that is used, and the amount of blanket wash that is generated as waste for each press.
- (b). The amount of fresh etch solution that is used, and the amount of etch solution that is generated as waste for each press.
- (c). The throughput of ink for each press.

SECTION D. Source Level Requirements

014 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall keep records of the following information for the above press:

- (a). monthly ink, etch solution, and clean-up solvent usage.
- (b). the VOC content and the density of the ink, the etch solution and the clean-up solvent as applied.
- (c). number of image impressions per press per day.
- (d). total operating hours per press per day.
- (e). the amount of VOC as waste shipped out and the date of the shipment.
- (f). the daily temperature of the gases in the thermal oxidizer combustion chamber.
- (g). sufficient data and calculations, including the records for the calculations used to determine the average hourly and average daily VOC emissions, to clearly determine if the requirements for vapor pressure, VOC content of the etch solution, and VOC emission limitations for this press are being met.
- (h). The average hourly and average daily VOC emissions calculated in paragraph (g) above shall be calculated based on the actual monthly ink, etch solution, and clean-up solvent usage, the operating hours, and the number of image impressions.

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.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) Cleaning towels shall be placed in closed containers immediately after each use.
- (b) The solvent laden towels shall be disposed of by acceptable means.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a). The blanket cleaning solution used in the printing presses listed under Source Group 002A shall meet one of the following requirements:
 - (1). The VOC composite vapor pressure, as used, shall be less than or equal to 10 mm Hg at 68 degrees Fahrenheit; or,
 - (2). The volatile organic compound (VOC) content, as applied, shall be less than or equal to 70 percent by weight.
- (b). The permittee shall limit the consumption of cleaning materials that do not meet the criteria listed in paragraph (a) above to 110 gallons per year on a 12-month rolling basis when performing cleaning tasks that cannot be carried out with cleaning solutions that meet the criteria listed in paragraph (a) above.

[This condition is derived from "Control Techniques Guidelines for Offset Lithographic Printing and Letterpress Printing" (EPA-453/R-06-002; September 2006).]

SECTION D. Source Level Requirements

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each printing press listed under Source Group 002A and their associated thermal oxidizers shall be operated in accordance with manufacturer's specifications and good air pollution control practices.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The VOC content of the etch solution, as applied in the printing presses listed under Source Group 002A, shall not exceed 3 percent by weight and the alcohol content shall not exceed 1.6 percent by volume.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a). This printing press and thermal oxidizer shall be operated in accordance with the manufacturer's specifications and good air pollution control practices.
- (b). The thermal oxidizer shall be equipped with temperature monitoring and recording devices, which continuously indicate and record the temperatures of the combustion chamber or zone.
- (c). The permittee shall operate the Stork Contiweb, Model No. 121-1460 thermal oxidizer, in such a manner, that the temperature of the combustion chamber is maintained at a minimum of 1400 degrees Fahrenheit to assure a destruction efficiency of 99 percent.
- (d). This press shall not start applying inks, fountain solutions and cleaning solvents before the thermal oxidizer combustion chamber has reached the required temperature as stated in condition (c) above.
- (e). The thermal oxidizer shall not be bypassed, at any time, when the presses and/or dryers are in operation.
- (f). The VOC content of the etch solution, as applied, shall not exceed 3 percent by weight and the alcohol content shall not exceed 1.6 percent by volume.
- (g). The thermal oxidizer combustion chamber temperature as described in condition (c) above shall be maintained for at least 5 minutes after the press and the ovens are shut off.
- (h). The average hourly and average daily VOC emissions shall be calculated based on the actual monthly ink, etch solution, and clean-up solvent usage, the operating hours, and the number of image impressions.

VII. ADDITIONAL REQUIREMENTS.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a). The following factors shall be used to calculate VOC emissions:
 - (1). Ink VOC - 20 percent retention in the substrate, 100 percent capture of VOCs not retained in the substrate.
 - (2). Automated Washing VOC - 40 percent capture
 - (3). Etch Solution VOC - 70 percent capture
 - (4). Automated Washing Cloth Retention - 33 percent
 - (5). Hand Washing Cloth Retention - 50 percent

**SECTION D. Source Level Requirements**

(b). The above requirement is subject to Department review of the changes of the material used at this source.

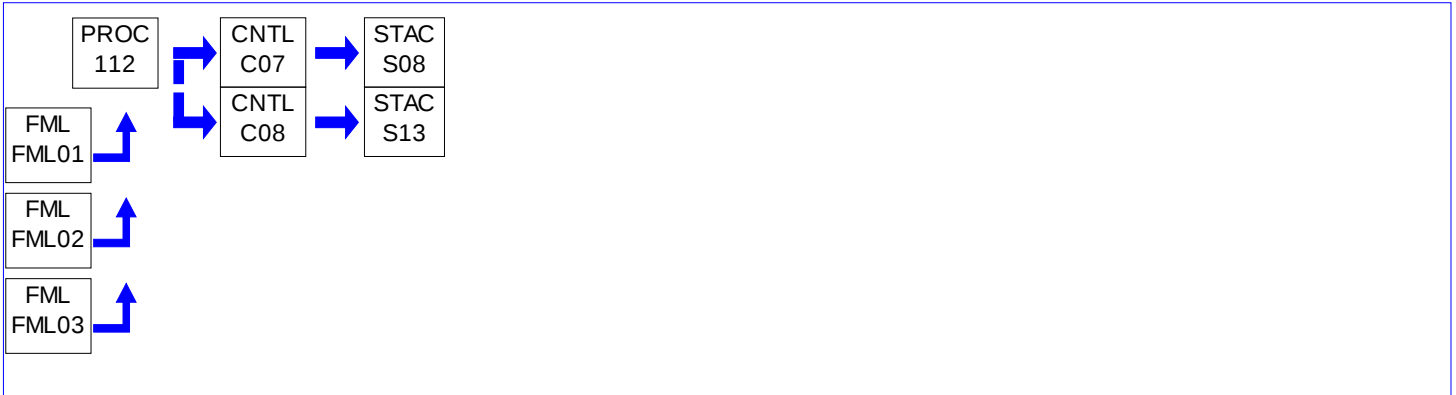
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 112

Source Name: OFFSET PRESS 1011 (8 STATION W/ DRYING OVEN)

Source Capacity/Throughput:	815.520 CF/HR	Natural Gas
	9.190 Gal/HR	Propane
	290.000 Lbs/HR	INK



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from the above dryer, at any time, in such 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

No person shall permit the emission into the outdoor atmosphere of sulfur oxides from the above dryer 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.

(a). The volatile organic compound (VOC) emissions from this press shall not exceed 14.7 tons per year in a 12-month rolling sum.

(b). The hazardous air pollutant (HAP) emissions from this source shall not exceed 6.2 tons per year in a 12-month rolling sum.

Fuel Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use natural gas and propane as a fuel in the operation of this source.

II. TESTING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). Subject to subparagraph (c) below, the permittee shall test their inks, solvents, etch solutions and fountain solutions, as applied for the following, in accordance with Method 24, as specified in 40 CFR part 60, Appendix A, or through an alternative method, which has been approved by the Department:

(1). Volatile matter content.

SECTION D. Source Level Requirements

- (2). Water content.
- (3). Density.
- (4). Volume solids.
- (5). Weight solids.

(b). Subject to subparagraph (c) below, the permittee shall test each coating for each delivery, except those that are delivered having the same lot or batch number that have been previously tested.

(c). The permittee may be exempt from the test mentioned in subparagraphs (a) and (b) above for all inks, solvents and fountain solutions used in this source if they are used as supplied and are supplied with a Certified Product Data Sheet (CPDS) or a Department approved documentation that is equivalent.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

As per the stack testing conditions under Section D, Source ID Nos. C07 and C08, the permittee shall conduct performance tests on the associated control devices and capture system to determine its reduction of VOC emissions 18 months prior to the expiration of this Title V Permit.

III. MONITORING REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following information on a monthly basis:

- (a). The type of fuel used.
- (b). The amount of fuel used.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Using a Department approved method, the permittee shall monitor the exhaust flow rate for this source.

009 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall monitor the following information for the above press:

- (a). Monthly ink, etch solution, and clean-up solvent usage.
- (b). The percentage VOC and HAP content by weight and the density of the ink, the etch solution and the clean-up solvent as applied. The weight to volume ratio (lb/gal) may be used instead of the percentage VOC and HAP by weight for the etch solution and the clean-up solvent.
- (c). Number of image impressions per press per day.
- (d). Total operating hours per press per day.
- (e). The amount of VOC as waste shipped out and the date of the shipment.
- (f). The daily temperature of the gases in the thermal oxidizer combustion chamber.
- (g). Sufficient data and calculations, including the records for the calculations used to determine the average hourly and average daily VOC emissions, to clearly determine if the requirements for vapor pressure, VOC content of the etch solution,

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and VOC emission limitations for this press are being met.

IV. RECORDKEEPING REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The permittee shall keep records of the following information on a monthly basis:

- (1). The type of fuel used.
- (2). The amount of fuel used.

(b). The permittee shall calculate the total amount of pollutants emitted from the burning of fuel for this source on a monthly basis.

(c). The permittee shall calculate the total amount of fuel used and the total amount of pollutants emitted on a 12-month rolling basis.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep all records required under the conditions for this source for a period of five (5) years, and the records shall be made available to the Department upon request.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall calculate and record the emissions of volatile organic compounds and hazardous air pollutants on a monthly and 12-month rolling basis.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). Using a Department approved method, the permittee shall record the exhaust flow rate for this source.

(b). The permittee shall verify that the thermal oxidizer(s) in operation have the capacity to handle the exhaust gas feed from Source ID Nos. 104A, 106A, and 112.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

If a controller or control loop is used to prevent the overloading of the operating thermal oxidizer(s) in the press/thermal oxidizer system, then the permittee shall keep records of any manufacturer's statements or specifications verifying that the static pressure at the set point and location in the control loop prevents the exceedance of volume flow through the thermal oxidizer(s) that is/are in operation.

015 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall keep records of the following information for the above press:

- (a). Monthly ink, etch solution, and clean-up solvent usage.
- (b). The percentage VOC and HAP content by weight and the density of the ink, the etch solution and the clean-up solvent as applied. The weight to volume ratio (lb/gal) may be used instead of the percentage VOC and HAP by weight for the etch

SECTION D. Source Level Requirements

solution and the clean-up solvent.

- (c). Number of image impressions per press per day.
- (d). Total operating hours per press per day.
- (e). The amount of VOC as waste shipped out and the date of the shipment.
- (f). The daily temperature of the gases in the thermal oxidizer combustion chamber.
- (g). Sufficient data and calculations, including the records for the calculations used to determine the average hourly and average daily VOC emissions, to clearly determine if the requirements for vapor pressure, VOC content of the etch solution, and VOC emission limitations for this press are being met.

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.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a). When the combination of exhaust flows from Source ID Nos. 104A, 106A, and 112 exceed the capacity of any one thermal oxidizer, the presses shall not apply any ink, etch solution, or fountain solution before any two thermal oxidizer combustion zone temperatures reach the minimum temperature requirement indicated in Condition #017.
- (b). In the event that the combination of exhaust flows from the operation of Source ID Nos. 104A, 106A, and 112 is less than the capacity of a single thermal oxidizer used in controlling the VOC emissions from these presses, then only one thermal oxidizer with the capacity to handle the exhaust flow is required to be at the minimum combustion zone temperature prior to the start-up of the presses.
- (c). A controller or control loop may be used to assist in preventing the operating thermal oxidizer(s) in the press/thermal oxidizer system from being overloaded and comply with the conditions in paragraphs (a) and (b) above. The permittee shall provide a manufacturer's guarantee or the manufacturer's specifications for the static pressure set point located in the system to assure that the system of thermal oxidizers will not be overloaded.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a). The thermal oxidizers shall be equipped with a temperature monitoring and recording device, which continuously measures, indicates, and records the combustion zone temperature.
- (b). For the MEGTEC Thermal Oxidizer, the permittee shall maintain the set point temperature of the thermal oxidizer at 1,500 degrees Fahrenheit. Any fluctuations of the hourly average temperature from this set point temperature shall not be less than 1,490 degrees Fahrenheit in order to demonstrate compliance with the requirement for a minimum destruction efficiency of 98 percent by weight for VOC.
- (c). For the Langbein Engelbracht (L&E) Thermal Oxidizer, the permittee shall maintain the set point temperature of the thermal oxidizer at 1,500 degrees Fahrenheit. Any fluctuations of the hourly average temperature from this set point temperature shall not be less than 1,490 degrees Fahrenheit in order to demonstrate compliance with the requirement for a minimum destruction efficiency of 98 percent by weight for VOC.
- (d). This press shall not start applying inks, fountain solutions, and cleaning solvents before the thermal oxidizer

SECTION D. Source Level Requirements

combustion chamber(s) have reached the required temperature stated in conditions (b) and (c) above.

(e). The thermal oxidizer in use shall not be bypassed, at any time, when the presses and/or dryers are in operation.

(f). The thermal oxidizer combustion chamber temperatures as described in conditions (b) and (c) above shall be maintained for at least 5 minutes after all of the presses and the ovens connected to the oxidizers are shut off.

(g). The exhaust rate from the dryer associated with Press No. 1011 shall not exceed an exhaust rate of 10,500 standard cubic feet per minute (scfm).

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain the as applied volatile organic compound (VOC) content of the etch solutions used in this source at or below 3.0 percent, by weight.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The blanket cleaning solution used on this source shall meet one of the following requirements:

- (1). The VOC composite vapor pressure, as used, shall be less than or equal to 10 mm Hg at 68 degrees Fahrenheit; or,
- (2). The volatile organic compound (VOC) content, as applied, shall be less than or equal to 70 percent by weight.

(b). The permittee shall limit the consumption of cleaning materials that do not meet the criteria listed in paragraph (a) above to 110 gallons per year on a 12-month rolling basis when performing cleaning tasks that cannot be carried out with cleaning solutions that meet the criteria listed in paragraph (a) above.

[This condition is derived from "Control Techniques Guidelines for Offset Lithographic Printing and Letterpress Printing" (EPA-453/R-06-002; September 2006).]

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep all solvent containers closed at all times unless filling, draining, or performing cleanup operations.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep all solvent laden shop towels in a closed container when not being used.

022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The volatile organic compound (VOC) emissions from this press shall be controlled by the following thermal oxidizers:

- (1). MEGTEC Systems regenerative thermal oxidizer (MEGTEC), Model No. II250-95 (capacity is 25,000 scfm); and/or
- (2). Langbein Engelbracht regenerative thermal oxidizer (L & E), Model No. TR1592C (capacity is 15,000 scfm); and/or

(b). The MEGTEC and L & E thermal oxidizers shall be used as the primary control devices.

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023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This printing press and the thermal oxidizers associated with this source shall be operated in accordance with the manufacturer's specifications and good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

024 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall use the following factors to calculate volatile organic compound (VOC) emissions:

- (a). Ink VOC - 20 percent retention in the substrate, 100 percent capture on VOCs not retained in the substrate.
- (b). Automated Washing VOC - 40 percent capture
- (c). Etch Solution VOC - 70 percent capture
- (d). Automated Washing Cloth Retention - 33 percent
- (e). Hand Washing Cloth Retention - 50 percent
- (f). The above requirement is subject to Department review of the changes of the material used at this source.

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

SECTION D. Source Level Requirements

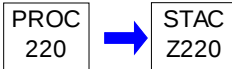
Source ID: 220

Source Name: INK JET PRINTER UNITS

Source Capacity/Throughput:

10.000 Lbs/HR

VOC SOLV BASED INKS

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The volatile organic compound emissions from the ink jet printers listed under this source shall not exceed, in total, 12.9 tons per year in any 12-month consecutive 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, on a monthly basis, monitor data or information necessary to demonstrate compliance with the VOC emission limitation.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall, on a monthly basis, keep data or information necessary to demonstrate compliance with the VOC emission limitation.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This ink jet printer shall be operated using good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID No. 220 includes the following list of ink jet printers:

- (a). One Print Pro Ink Jet Printers (1) - acetone/ethanol based inks used.

SECTION D. Source Level Requirements

- (b). Eight BX Ink Jet Printers (1, 2, 3, 4, 5, 6, 7, & 8) - acetone/ethanol based inks used.
- (c). Four Liebing Ink Jet Printers (1, 2, 3, & 4) - acetone/ethanol based inks used.

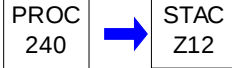
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 240

Source Name: (2) PROPANE STORAGE TANKS

Source Capacity/Throughput:



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §129.57]

Storage tanks less than or equal to 40,000 gallons capacity containing VOCs

The provisions of this section shall apply to above ground stationary storage tanks with a capacity equal to or greater than 2,000 gallons which contain volatile organic compounds with vapor pressure greater than 1.5 psia (10.5 kilopascals) under actual storage conditions. Storage tanks covered under this section shall have pressure relief valves which are maintained in good operating condition and which are set to release at no less than .7 psig (4.8 kilopascals) of pressure or .3 psig (2.1 kilopascals) of vacuum or the highest possible pressure and vacuum in accordance with state or local fire codes or the National Fire Prevention Association guidelines or other national consensus standards acceptable to the Department. Section 129.56(g) (relating to storage tanks greater than 40,000 gallons capacity containing volatile organic compounds) applies to this section. Petroleum liquid storage vessels which are used to store produced crude oil and condensate prior to lease custody transfer shall be exempt from the requirements of this section.

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 propane through each of the above tanks per delivery.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the throughput for each of the above tanks per delivery, and the records shall be maintained at the facility for a period of 5 years and be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.56(g).]

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

**SECTION D. Source Level Requirements**

temperature for the hottest month of the year in which such storage takes place.

VII. ADDITIONAL REQUIREMENTS.

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

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

SECTION D. Source Level Requirements

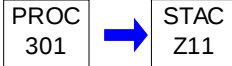
Source ID: 301

Source Name: (10) PARTS WASHERS - SOLVENT BASED

Source Capacity/Throughput:

2.000 Lbs/HR

MINERAL SPIRITS



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The VOC emissions from this source shall not exceed 3 pounds per hour, 15 pounds per day, or 2.7 tons per year based on any consecutive 12-month rolling period, whichever is more stringent.

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 amount of VOC and/or HAP containing material added to this source and removed from this source during each delivery.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the amount of VOC and/or HAP containing material added to this source and removed from this source during each delivery.

004 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The Permittee shall calculate and record the VOC emissions from this source on a monthly and 12-month rolling basis to assure compliance with the emission limitations. The records shall be kept at the site for a period of five (5) years and be made available to the Department upon request.

005 [25 Pa. Code §129.63]

Degreasing operations

(a). A person who sells or offers for sale any solvent containing VOCs for use in a cold cleaning machine shall provide, to the purchaser, the following written information:

- (1). The name and address of the solvent supplier.
- (2). The type of solvent including the product or vendor identification number.
- (3). The vapor pressure of the solvent measured in mm hg at 20°C (68°F).

SECTION D. Source Level Requirements

(b). A person who operates a cold cleaning machine shall maintain for at least 2 years and shall provide to the Department, on request, the information specified in paragraph (a). An invoice, bill of sale, certificate that corresponds to a number of sales, Material Safety Data Sheet (MSDS), or other appropriate documentation acceptable to the Department may be used to comply with this section.

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

The following requirements apply to cold cleaning machines that are used to remove grease dirt, or oil from metal parts. This condition applies to cold cleaning machines that use 2 gallons or more of solvents containing greater than 5% VOC content by weight for the cleaning of metal parts.

(a). Each immersion cold cleaning machine shall have a freeboard ratio of 0.50 or greater.

(b). Each immersion cold cleaning machine shall:

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

(A). Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts should be positioned so that solvent drains directly back to the cold cleaning machine.

(B). When a pump-agitated solvent bath is used, the agitator should be operated to produce a rolling motion of the solvent with no observable splashing of the solvent against the tank walls or the parts being cleaned.

(C). Work area fans should be located and positioned so that they do not blow across the opening of the degreaser unit.

(2). Be equipped with a cover that shall be closed at all times except during cleaning of parts or the addition or removal of solvent.

(c). Cold cleaning machines shall be operated in accordance with the following procedures:

(1). Waste solvent shall be collected and stored in closed containers. The closed containers may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.

(2). Flushing of parts using a flexible hose or other flushing device shall be performed only within the cold cleaning machine. The solvent spray shall be a solid fluid stream, not an atomized or shower spray.

(3). Sponges, fabric, wood, leather, paper products and other absorbent materials may not be cleaned in the cold cleaning machine.

(4). Air agitated solvent baths may not be used.

(5). Spills during solvent transfer and use of the cold cleaning machine shall be cleaned up immediately.

(d). A person may not use, sell or offer for sale for use in a cold cleaning machine any solvent with a vapor pressure of 1.0 millimeter of mercury (mm Hg) or greater and containing greater than 5% VOC by weight, measured at 20°C (68°F)

SECTION D. Source Level Requirements

containing VOCs.

(e). Paragraph (d) does not apply:

- (1). To cold cleaning machines used in extreme cleaning service.
- (2). If the owner or operator of the cold cleaning machine demonstrates, and the Department approves in writing, that compliance with paragraph (d) will result in unsafe operating conditions.
- (3). To immersion cold cleaning machines with a freeboard ratio equal to or greater than 0.75.

VII. ADDITIONAL REQUIREMENTS.

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

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

SECTION D. Source Level Requirements

Source ID: 309

Source Name: FIRE PUMP

Source Capacity/Throughput:

12.290 Gal/HR

#2 Oil



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

No person shall permit particulate matter emission from the above source, into the outdoor atmosphere, in excess of 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

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

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The above source shall be operated and maintained in accordance with the manufacturer's specifications and good air pollution control practices.

(b) The above source shall be operated on No.2 fuel oil only.

(c) The operation of the above source shall not exceed 500 hours of operation in any consecutive 12-month rolling 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 §§ 129.91 - 129.95.]

The permittee shall limit the operation of this compression ignition, reciprocating internal combustion engine (CI RICE) to less than 500 hours per year on a 12-month rolling sum basis.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.6640(f)(2).]

(a). The permittee may operate the emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by the manufacturer, the vendor, or the insurance company associated

SECTION D. Source Level Requirements

with the engine. Required testing of such units should be minimized, but there is no time limit on the use of emergency stationary RICE in emergency situations and for routine testing and maintenance.

(b). The permittee may operate your emergency stationary RICE for an additional 50 hours per year in non-emergency situations. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.6625(h).]

The permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The permittee shall monitor the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must monitor how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must monitor events of the notification of the emergency situation, and the time the engine was operated as part of demand response.

(b). The permittee shall monitor the hours of operation of the engine during the engine's time spent at idle during startup.

IV. RECORDKEEPING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.6625(i).]

If the permittee choose the oil analysis program to meet the requirements for the maintenance of the CI RICE, then the permittee shall keep records of the Total Base Number, viscosity, and percent water content of the oil for each analysis performed, the results of the analysis, and the oil changes performed for the engine.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.6655(f).]

(a). The permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.

(b). The permittee shall keep records of the hours of operation of the engine during the engine's time spent at idle during startup.

SECTION D. Source Level Requirements

(c). The total hours of operation shall be compiled on a monthly and on a 12-month rolling basis.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 63.6655(a)(4), 63.6655(d) and 63.6655(e).]

The permittee shall keep records of all inspections and/or maintenance that is performed on this CI RICE in order to demonstrate that the CI RICE was operated and maintained in accordance with manufacturer's or company's own maintenance plan.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep a record of either the manufacturer's specifications and instructions or the permittee's own preventive maintenance plan for the entire time period that the permitted CI RICE is at this facility. These maintenance plans shall be made available to the Department upon request.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.6655(a).]

The permittee shall keep records of the following in the event of a malfunction of this CI RICE:

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

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

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.6655(a).]

The permittee shall keep a copy of all reports submitted to the Administrator for compliance with 40 C.F.R. Part 63, Subpart ZZZZ.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.6660.]

(a). The records must be kept in a form suitable and readily available for expeditious review according to 40 C.F.R. § 63.10(b)(1).

(b). As specified in 40 C.F.R. § 63.10(b)(1), the records shall be kept for five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c). The permittee shall keep each record readily accessible in hard copy or electronic form for at least five (5) years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 C.F.R. § 63.10(b)(1).

SECTION D. Source Level Requirements**# 015 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall demonstrate through calculation or equivalent means compliance with the applicable requirements of 25 Pa. Code §§ 123.13(c)(1)(i) and 123.21. This demonstration can include a one-time only calculation to prove that the emission limits will never be exceeded under normal operation of this source, if applicable. The calculations shall be kept on file for the life of the operation of this source.

V. REPORTING REQUIREMENTS.**# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 63.6640(b) and 63.6650(f).]

(a). The permittee shall report to the Administrator each instance in which the requirements from 40 C.F.R. Part 63, Subpart ZZZZ, Table 2d.4 were not met. The reports shall be submitted as per the requirements of paragraph (b) below.

(b). Each affected source that has obtained a Title V Operating Permit pursuant to 40 C.F.R. Part 70 or 71 must report all deviations as defined in 40 C.F.R. Part 63, Subpart ZZZZ in the semiannual monitoring report required by 40 C.F.R. § 70.6 (a)(3)(iii)(A) or 40 C.F.R. § 71.6(a)(3)(iii)(A).

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

[Additional Authority for this permit condition is also derived from 40 C.F.R. § 63.6603(a), 40 C.F.R. Part 63, Subpart ZZZZ, Table 2d.4, 40 C.F.R. § 63.6605, and 40 C.F.R. § 63.6625(i).]

(a). The following maintenance activities shall be performed by the permittee at the frequency described below:

(1). The permittee shall change the oil and filter in this CI RICE every 500 hours of operation or annually, whichever comes first.

(2). The permittee shall inspect the air cleaner in this CI RICE every 1,000 hours of operation or annually, whichever comes first.

(3). The permittee shall inspect all hoses and belts in this CI RICE every 500 hours of operation or annually, whichever comes first, and replace these items as necessary.

(b). The permittee may choose the option of utilizing an oil analysis program in order to extend the specified oil change requirement in paragraph (a)(1) above. If the oil analysis program is chosen, the oil analysis shall occur at a frequency of every 500 hours of operation or annually, whichever comes first, and the oil analysis, at a minimum, shall include Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. If the oil analysis program is chosen for compliance with 40 C.F.R. Part 63, Subpart ZZZZ, the analysis program shall be part of the maintenance plan for the engine.

(c). The requirements in paragraphs (a) and (b) above apply to this CI RICE at all times.

SECTION D. Source Level Requirements

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 63.6605(b), 63.6625(e), 63.6640(a), and 40 C.F.R. Part 63, Subpart ZZZZ, Table 6.]

(a). At all times the permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.

(b). The permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan for the CI RICE which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

(c). The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 40 C.F.R. § 63.6625(f).]

The permittee shall install a non-resettable hour meter if one is not already installed on this CI RICE.

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 C.F.R. § 63.6595(a).]

The permittee shall demonstrate compliance with the operational limits 40 C.F.R. Part 63, Subpart ZZZZ by May 3, 2013 or whatever deadline date is specified by the Administrator (U.S. EPA) if the original date is extended.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The permittee is subject to the following general MACT requirements as referenced and specified in 40 C.F.R. Part 63, Subpart ZZZZ, Table 8: 40 C.F.R. §§ 63.1, 63.2, 63.3, 63.4, 63.5, 63.6 [except for 40 C.F.R. § 63.6(h)], 63.7 [except 40 C.F.R. § 63.7(e)(1)], 63.8 [except for 40 C.F.R. §§ 63.8(a)(4), 63.8 (c)(5), and 63.8(e)(5)(ii)], 63.9 [except for 40 C.F.R. §§ 63.9(f) and (g)(2)], 63.10 [except for 40 C.F.R. §§ 63.10(b)(2)(i) - (v), 63.10(d)(3), 63.10(d)(5), 63.10(e)(2)(ii), and 63.10(e)(4)], 63.12, 63.13, 63.14, and 63.15.

(b). The permittee shall report each instance in which the requirements listed in 40 C.F.R. Part 63, Subpart ZZZZ, Table 8 and summarized above were not met.

022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID No. 309 consists of a Cummins Model No. 6BTA59FI Compression Ignition RICE rated at 244 bhp output.

*** Permit Shield in Effect. ***

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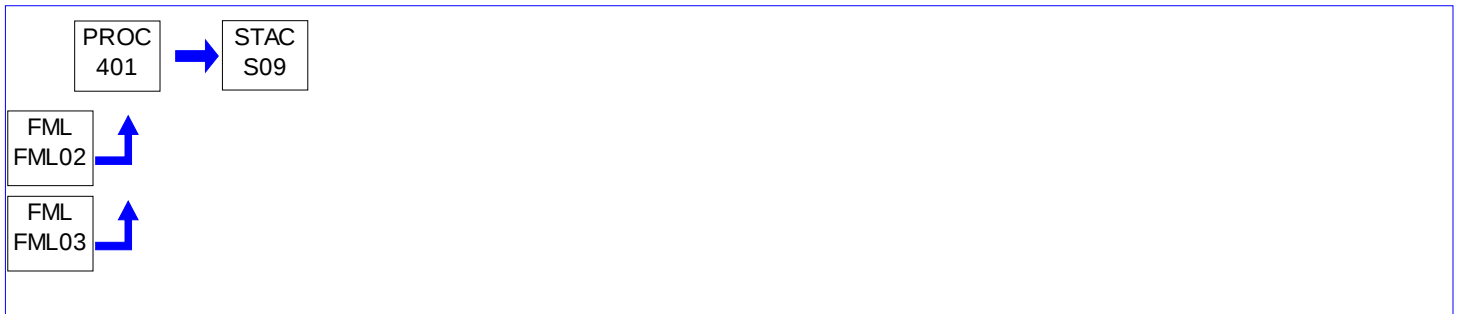
Source ID: 401

Source Name: (2) EMERGENCY GENERATORS

Source Capacity/Throughput:

8.800 Gal/HR

Propane

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

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from each emergency generator engine, at any time, in such 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

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

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate each of the above emergency generators on propane only.

Operation Hours Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate each of the above emergency generators less than 500 hours in any consecutive 12-month period.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 129.91 - 129.95.]

The permittee shall limit the operation of each spark ignition, reciprocating internal combustion engines (SI RICE) listed under this source to less than 500 hours per year on a 12-month rolling sum basis.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.6640(f)(1).]

(a). The permittee may operate the emergency stationary RICE for the purpose of maintenance checks and readiness

SECTION D. Source Level Requirements

testing, provided that the tests are recommended by the manufacturer, the vendor, or the insurance company associated with the engine. Required testing of such units should be minimized, but there is no time limit on the use of emergency stationary RICE in emergency situations and for routine testing and maintenance.

(b). The permittee may operate your emergency stationary RICE for an additional 50 hours per year in non-emergency situations. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.6625(h).]

The permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

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

(a). The permittee shall monitor the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must monitor how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must monitor events of the notification of the emergency situation, and the time the engine was operated as part of demand response.

(b). The permittee shall monitor the hours of operation of the engine during the engine's time spent at idle during startup.

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 C.F.R. § 63.6625(i).]

If the permittee choose the oil analysis program to meet the requirements for the maintenance of the SI RICE, then the permittee shall keep records of the Total Base Number, viscosity, and percent water content of the oil for each analysis performed, the results of the analysis, and the oil changes performed for the engine.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.6655(f).]

(a). The permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.

(b). The permittee shall keep records of the hours of operation of the engine during the engine's time spent at idle during

SECTION D. Source Level Requirements

startup.

(c). The total hours of operation shall be compiled on a monthly and on a 12-month rolling basis.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 63.6655(a)(4), 63.6655(d) and 63.6655(e).]

The permittee shall keep records of all inspections and/or maintenance that is performed on this SI RICE in order to demonstrate that the SI RICE was operated and maintained in accordance with manufacturer's or company's own maintenance plan.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep a record of either the manufacturer's specifications and instructions or the permittee's own preventive maintenance plan for the entire time period that the permitted SI RICE is at this facility. These maintenance plans shall be made available to the Department upon request.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.6655(a).]

The permittee shall keep records of the following in the event of a malfunction of this SI RICE:

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

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

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.6655(a).]

The permittee shall keep a copy of all reports submitted to the Administrator for compliance with 40 C.F.R. Part 63, Subpart ZZZZ.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.6660.]

(a). The records must be kept in a form suitable and readily available for expeditious review according to 40 C.F.R. § 63.10(b)(1).

(b). As specified in 40 C.F.R. § 63.10(b)(1), the records shall be kept for five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c). The permittee shall keep each record readily accessible in hard copy or electronic form for at least five (5) years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 C.F.R. § 63.10(b)(1).

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016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall demonstrate through calculation or equivalent means compliance with the applicable requirements of 25 Pa. Code §§ 123.13(c)(1)(i) and 123.21. This demonstration can include a one-time only calculation to prove that the emission limits will never be exceeded under normal operation of this source, if applicable. The calculations shall be kept on file for the life of the operation of this source.

V. REPORTING REQUIREMENTS.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 63.6640(b) and 63.6650(f).]

(a). The permittee shall report to the Administrator each instance in which the requirements from 40 C.F.R. Part 63, Subpart ZZZZ, Table 2d.4 were not met. The reports shall be submitted as per the requirements of paragraph (b) below.

(b). Each affected source that has obtained a Title V Operating Permit pursuant to 40 C.F.R. Part 70 or 71 must report all deviations as defined in 40 C.F.R. Part 63, Subpart ZZZZ in the semiannual monitoring report required by 40 C.F.R. § 70.6 (a)(3)(iii)(A) or 40 C.F.R. § 71.6(a)(3)(iii)(A).

VI. WORK PRACTICE REQUIREMENTS.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 40 C.F.R. § 63.6625(f).]

The permittee shall install a non-resettable hour meter on each SI RICE listed under this source if one is not already installed on each SI RICE that is listed under this source.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate and maintain each of the above emergency generators in accordance with manufacturers specifications and good air pollution control practices.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional Authority for this permit condition is also derived from 40 C.F.R. § 63.6603(a), 40 C.F.R. Part 63, Subpart ZZZZ, Table 2d.4, 40 C.F.R. § 63.6605, and 40 C.F.R. § 63.6625(i).]

(a). The following maintenance activities shall be performed by the permittee at the frequency described below:

(1). The permittee shall change the oil and filter in this SI RICE every 500 hours of operation or annually, whichever comes first.

(2). The permittee shall inspect the spark plugs in this SI RICE every 1,000 hours of operation or annually, whichever comes first.

(3). The permittee shall inspect all hoses and belts in this SI RICE every 500 hours of operation or annually, whichever comes first, and replace these items as necessary.

(b). The permittee may choose the option of utilizing an oil analysis program in order to extend the specified oil change requirement in paragraph (a)(1) above. If the oil analysis program is chosen, the oil analysis shall occur at a frequency of

SECTION D. Source Level Requirements

every 500 hours of operation or annually, whichever comes first, and the oil analysis, at a minimum, shall include Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. If the oil analysis program is chosen for compliance with 40 C.F.R. Part 63, Subpart ZZZZ, the analysis program shall be part of the maintenance plan for the engine.

(c). The requirements in paragraphs (a) and (b) above apply to this SI RICE at all times.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 63.6605(b), 63.6625(e), 63.6640(a), and 40 C.F.R. Part 63, Subpart ZZZZ, Table 6.]

(a). At all times the permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.

(b). The permittee shall operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan for the SI RICE which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

(c). The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

VII. ADDITIONAL REQUIREMENTS.

022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.6595(a).]

The permittee shall demonstrate compliance with the operational limits 40 C.F.R. Part 63, Subpart ZZZZ by October 19, 2013 or whatever deadline date is specified by the Administrator (U.S. EPA) if the original date is extended.

023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 63.6640(e) and 40 C.F.R. Part 63, Subpart ZZZZ, Table 8.]

(a). The permittee is subject to the following general MACT requirements as referenced and specified in 40 C.F.R. Part 63, Subpart ZZZZ, Table 8: 40 C.F.R. §§ 63.1, 63.2, 63.3, 63.4, 63.5, 63.6 [except for 40 C.F.R. § 63.6(h)], 63.7 [except 40 C.F.R. § 63.7(e)(1)], 63.8 [except for 40 C.F.R. §§ 63.8(a)(4), 63.8 (c)(5), and 63.8(e)(5)(ii)], 63.9 [except for 40 C.F.R. §§ 63.9(f) and (g)(2)], 63.10 [except for 40 C.F.R. §§ 63.10(b)(2)(i) - (v), 63.10(d)(3), 63.10(d)(5), 63.10(e)(2)(ii), and 63.10(e)(4)], 63.12, 63.13, 63.14, and 63.15.

(b). The permittee shall report each instance in which the requirements listed in 40 C.F.R. Part 63, Subpart ZZZZ, Table 8

**SECTION D. Source Level Requirements**

and summarized above were not met.

024 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID No. 401 consists of a Ford model # LSG 8751-6005A (121 HP, 60 KW) and a Ford model # 460GP-6005A (112 HP, 50 KW).

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

SECTION D. Source Level Requirements

Source ID: C05

Source Name: THERMAL OXIDIZER (IT-4)

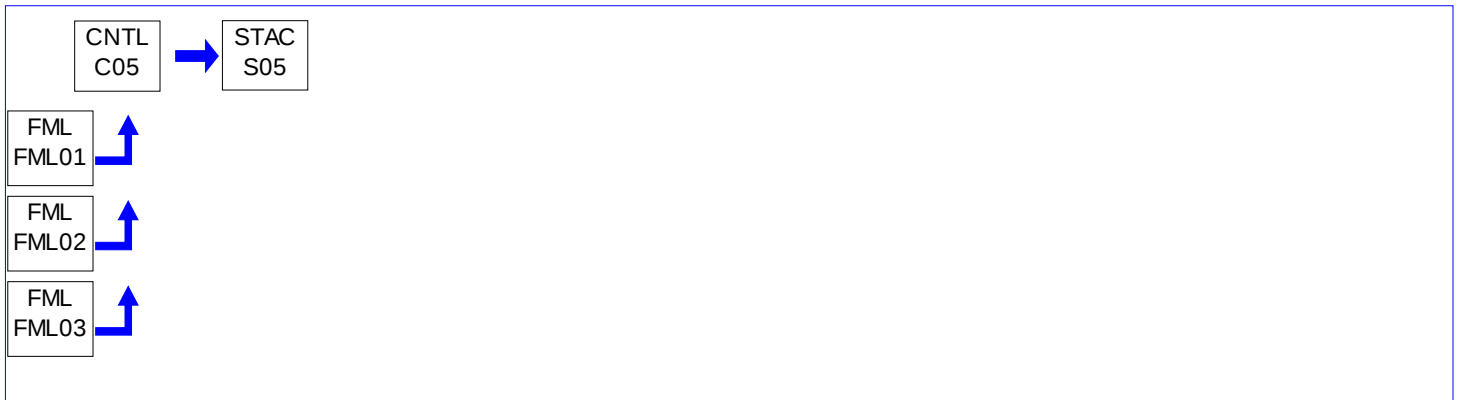
Source Capacity/Throughput:

11.800 MCF/HR

Natural Gas

131.000 Th Gal/HR

Propane



I. RESTRICTIONS.

Fuel Restriction(s).

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This oxidizer shall be operated on propane or natural gas only.

II. TESTING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The permittee shall perform a stack test using the Department-approved procedures, every five (5) years or once within the life of the permit. Such testing shall be conducted at least eighteen (18) months prior to the expiration of this permit. The stack test results shall be submitted for review no later than six (6) months before the permit expiration.

(b). At least sixty (60) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

(c). The stack test shall, at a minimum, test the performance of this thermal oxidizer for the capture and destruction efficiency of volatile organic compounds from the presses associated with this thermal oxidizer. Tests shall be conducted in accordance with the provisions of U.S. EPA Methods 1, 2, 3, 4, 18, and 25A or other Department approved methodology and 25 Pa. Code Chapter 139. The performance tests shall be conducted at the normal operating production rate of the presses for measurement of actual VOC emissions, including but not limited to the following:

- (1). Simultaneous measurement of the inlet and outlet of this oxidizer for determining destruction efficiency.
- (2). Gas flow at the inlet and outlet of this oxidizer.
- (3). Temperature and moisture content at the inlet and outlet of this oxidizer.

(d). At least thirty (30) days prior to the test, the Regional Air Quality Manager, shall be informed of the date and time of the test.

(e). Within sixty (60) days after the source test(s), two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

(f). In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.

SECTION D. Source Level Requirements

III. MONITORING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following on a monthly basis for this source:

- (a). The type of fuel consumed.
- (b). The amount of each fuel consumed.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R.§§ 64.3 and 64.6.]

Using a Department approved method, the permittee shall continuously monitor the combustion zone temperature of this thermal oxidizer.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The permittee shall record the following on a monthly basis for this source:

- (1). The type of fuel consumed.
- (2). The amount of each fuel consumed.

(b). The permittee shall calculate and record the emissions of criteria pollutants due to the combustion of fuel from this source on a monthly and 12-month rolling basis.

(c). The permittee shall keep the data collected in paragraphs (a) and (b) on file for a period of five (5) years, and the records shall be made available to the Department upon request.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R.§ 64.9.]

Using a Department approved method, the permittee shall continuously record the combustion zone temperature of this thermal oxidizer.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

The permittee shall record all excursions, corrective actions taken in response to each excursion, and the time elapsed until the corrective actions were taken in response to each excursion from the combustion zone temperature range permitted for this thermal oxidizer.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

The permittee shall maintain records of all monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable). The permittee shall also record the dates, times and durations, probable causes, and corrective actions taken for the incidents.

SECTION D. Source Level Requirements

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

The permittee shall keep records of all inspections and/or maintenance that is performed on this thermal oxidizer and associated monitoring equipment.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

The permittee shall keep all data recorded for this thermal oxidizer and associated monitoring systems on file for a period of five (5) years, and the files shall be made available to the Department upon request.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

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

V. REPORTING REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

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

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

The permittee shall report all monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable), their dates, times, and durations, probable causes and corrective actions taken every six (6) months.

VI. WORK PRACTICE REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate and maintain this source in accordance with manufacturer's specifications and good air pollution control practices.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

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

SECTION D. Source Level Requirements

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

The permittee shall ensure that 90 percent of the approved monitoring data has been properly and accurately collected.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

The permittee shall utilize approved QA/QC practices that are adequate to ensure continuing validity of data and proper performance of the devices.

- (a). The permittee shall install detectors or sensors at a Department approved location for obtaining data that is representative of the monitored indicator.
- (b). The permittee shall develop verification procedures to confirm the operational status of the monitoring devices.
- (c). For QA/QC purposes, the permittee shall calibrate and check the accuracy of the monitoring equipment according to the manufacturer's recommended procedures.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

The permittee shall submit an implementation plan and schedule if the approved monitoring requires the installation, testing or other necessary activities. The schedule for completing installation and beginning operation of the monitoring may not exceed 180 days after the issuance of the permit.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

The permittee shall ensure that this thermal oxidizer has reached the minimum combustion zone temperature prior to placing any affected source on line.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

The permittee shall ensure that the maximum air-flow capacity of this thermal oxidizer is not exceeded prior to routing the exhaust of any additional source(s) to it.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

- (a). This thermal oxidizer shall be operated, in such a manner, that the temperature of the combustion chambers is maintained at a minimum temperature of 1,400 degrees Fahrenheit to assure a destruction efficiency of 99 percent by weight.

SECTION D. Source Level Requirements

(b). The permittee shall adhere to the approved temperature range for this thermal oxidizer so that the operation within the range of temperatures shall provide reasonable assurance of compliance. A departure from this temperature range over a specified averaging period shall be defined as an excursion.

022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall perform inspections and/or maintenance on this thermal oxidizer on at least a weekly basis.

VII. ADDITIONAL REQUIREMENTS.

023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

The permittee shall develop and implement a Quality Improvement Plan (QIP) as expeditiously as practicable, but not to exceed 60 days after the date that the QIP shall be developed and implemented was determined, if any of the following occur:

- (a). For properly and accurately collected data, accumulated excursions exceed two percent (2 %) of the data recorded for the temperature of the combustion zone of this thermal oxidizer.
- (b). Six (6) excursions occur in a six (6) month reporting period.
- (c). The Department determines after review of all reported information that the permittee has not responded acceptably to an excursion.

024 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

When developing and implementing a QIP to address excursions from the range of acceptable temperatures permitted for this thermal oxidizer, 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.

025 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

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 the Department with a copy, to include procedures for conducting more frequent, or improved, monitoring in conjunction with one or more of the following:

- (a). Improved preventive maintenance practices.
- (b). Process operation changes.
- (c). Appropriate improvements to the control methods.
- (d). Other steps appropriate to correct performance.

026 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

SECTION D. Source Level Requirements

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

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

027 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

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

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

SECTION D. Source Level Requirements

Source ID: C06

Source Name: THERMAL OXIDIZER (IT-5)

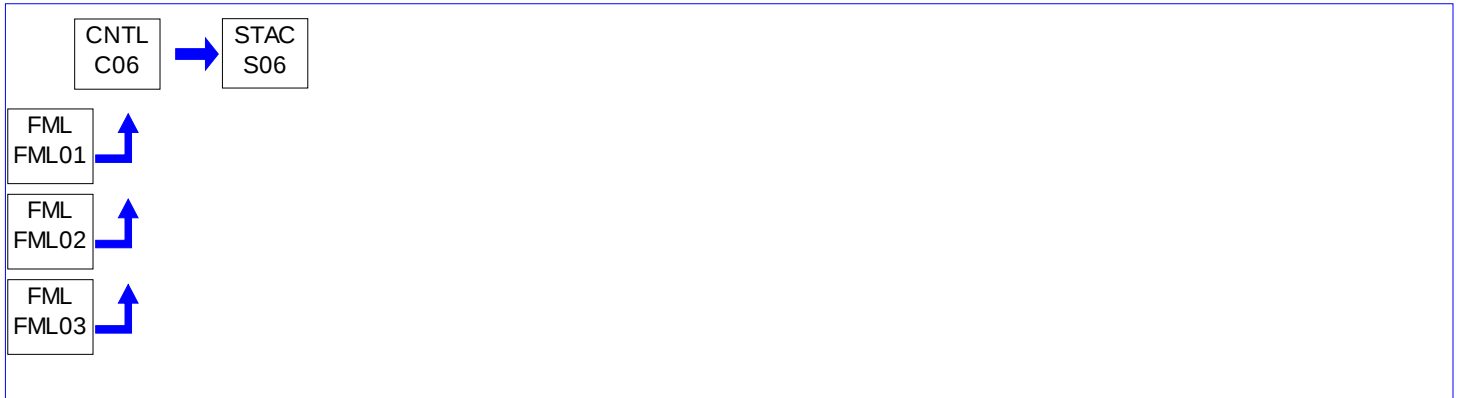
Source Capacity/Throughput:

11.800 MCF/HR

Natural Gas

131.000 Gal/HR

Propane



I. RESTRICTIONS.

Fuel Restriction(s).

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This oxidizer shall be operated on propane or natural gas only.

II. TESTING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The permittee shall perform a stack test using the Department-approved procedures, every five (5) years or once within the life of the permit. Such testing shall be conducted at least eighteen (18) months prior to the expiration of this permit. The stack test results shall be submitted for review no later than six (6) months before the permit expiration.

(b). At least sixty (60) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

(c). The stack test shall, at a minimum, test the performance of this thermal oxidizer for the capture and destruction efficiency of volatile organic compounds from the presses associated with this thermal oxidizer. Tests shall be conducted in accordance with the provisions of U.S. EPA Methods 1, 2, 3, 4, 18, and 25A or other Department approved methodology and 25 Pa. Code Chapter 139. The performance tests shall be conducted at the normal operating production rate of the presses for measurement of actual VOC emissions, including but not limited to the following:

- (1). Simultaneous measurement of the inlet and outlet of this oxidizer for determining destruction efficiency.
- (2). Gas flow at the inlet and outlet of this oxidizer.
- (3). Temperature and moisture content at the inlet and outlet of this oxidizer.

(d). At least thirty (30) days prior to the test, the Regional Air Quality Manager, shall be informed of the date and time of the test.

(e). Within sixty (60) days after the source test(s), two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

(f). In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.

SECTION D. Source Level Requirements**III. MONITORING REQUIREMENTS.****# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the following on a monthly basis for this source:

- (a). The type of fuel consumed.
- (b). The amount of each fuel consumed.

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

[Additional authority for this permit condition is also derived from 40 C.F.R.§§ 64.3 and 64.6.]

Using a Department approved method, the permittee shall continuously monitor the combustion zone temperature of this thermal oxidizer.

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

(a). The permittee shall record the following on a monthly basis for this source:

- (1). The type of fuel consumed.
- (2). The amount of each fuel consumed.

(b). The permittee shall calculate and record the emissions of criteria pollutants due to the combustion of fuel from this source on a monthly and 12-month rolling basis.

(c). The permittee shall keep the data collected in paragraphs (a) and (b) on file for a period of five (5) years, and the records shall be made available to the Department upon request.

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

[Additional authority for this permit condition is also derived from 40 C.F.R.§ 64.9.]

Using a Department approved method, the permittee shall continuously record the combustion zone temperature of this thermal oxidizer.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

The permittee shall record all excursions, corrective actions taken in response to each excursion, and the time elapsed until the corrective actions were taken in response to each excursion from the combustion zone temperature range permitted for this thermal oxidizer.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

The permittee shall maintain records of all monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable). The permittee shall also record the dates, times and durations, probable causes, and corrective actions taken for the incidents.

SECTION D. Source Level Requirements

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

The permittee shall keep records of all inspections and/or maintenance that is performed on this thermal oxidizer and associated monitoring equipment.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

The permittee shall keep all data recorded for this thermal oxidizer and associated monitoring systems on file for a period of five (5) years, and the files shall be made available to the Department upon request.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

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

V. REPORTING REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

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

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

The permittee shall report all monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable), their dates, times, and durations, probable causes and corrective actions taken every six (6) months.

VI. WORK PRACTICE REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate and maintain this source in accordance with manufacturer's specifications and good air pollution control practices.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

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

SECTION D. Source Level Requirements

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

The permittee shall ensure that 90 percent of the approved monitoring data has been properly and accurately collected.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

The permittee shall utilize approved QA/QC practices that are adequate to ensure continuing validity of data and proper performance of the devices.

- (a). The permittee shall install detectors or sensors at a Department approved location for obtaining data that is representative of the monitored indicator.
- (b). The permittee shall develop verification procedures to confirm the operational status of the monitoring devices.
- (c). For QA/QC purposes, the permittee shall calibrate and check the accuracy of the monitoring equipment according to the manufacturer's recommended procedures.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

The permittee shall submit an implementation plan and schedule if the approved monitoring requires the installation, testing or other necessary activities. The schedule for completing installation and beginning operation of the monitoring may not exceed 180 days after the issuance of the permit.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

The permittee shall ensure that this thermal oxidizer has reached the minimum combustion zone temperature prior to placing any affected source on line.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

The permittee shall ensure that the maximum air-flow capacity of this thermal oxidizer is not exceeded prior to routing the exhaust of any additional source(s) to it.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

- (a). This thermal oxidizer shall be operated, in such a manner, that the temperature of the combustion chambers is maintained at a minimum temperature of 1,400 degrees Fahrenheit to assure a destruction efficiency of 99 percent by weight.

SECTION D. Source Level Requirements

(b). The permittee shall adhere to the approved temperature range for this thermal oxidizer so that the operation within the range of temperatures shall provide reasonable assurance of compliance. A departure from this temperature range over a specified averaging period shall be defined as an excursion.

022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall perform inspections and/or maintenance on this thermal oxidizer on at least a weekly basis.

VII. ADDITIONAL REQUIREMENTS.

023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

The permittee shall develop and implement a Quality Improvement Plan (QIP) as expeditiously as practicable, but not to exceed 60 days after the date that the QIP shall be developed and implemented was determined, if any of the following occur:

- (a). For properly and accurately collected data, accumulated excursions exceed two percent (2 %) of the data recorded for the temperature of the combustion zone of this thermal oxidizer.
- (b). Six (6) excursions occur in a six (6) month reporting period.
- (c). The Department determines after review of all reported information that the permittee has not responded acceptably to an excursion.

024 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

When developing and implementing a QIP to address excursions from the range of acceptable temperatures permitted for this thermal oxidizer, 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.

025 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

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 the Department with a copy, to include procedures for conducting more frequent, or improved, monitoring in conjunction with one or more of the following:

- (a). Improved preventive maintenance practices.
- (b). Process operation changes.
- (c). Appropriate improvements to the control methods.
- (d). Other steps appropriate to correct performance.

026 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

SECTION D. Source Level Requirements

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

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

027 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

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

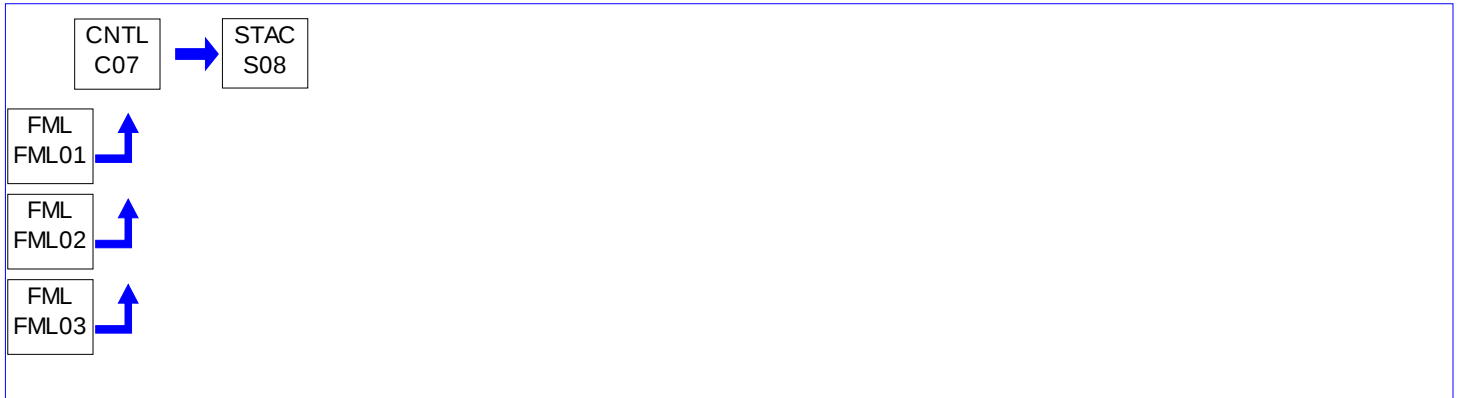
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: C07

Source Name: MEGTEC RTO (IT-3)

Source Capacity/Throughput:	4,000.000 CF/HR	Natural Gas
	44.000 Th Gal/HR	Propane



I. RESTRICTIONS.

Fuel Restriction(s).

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This oxidizer shall be operated on propane or natural gas only.

II. TESTING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The permittee shall perform a stack test using the Department-approved procedures, every five (5) years or once within the life of the permit. Such testing shall be conducted at least eighteen (18) months prior to the expiration of this permit. The stack test results shall be submitted for review no later than six (6) months before the permit expiration.

(b). At least sixty (60) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

(c). The stack test shall, at a minimum, test the performance of this thermal oxidizer for the capture and destruction efficiency of volatile organic compounds from the presses associated with this thermal oxidizer. Tests shall be conducted in accordance with the provisions of U.S. EPA Methods 1, 2, 3, 4, 18, and 25A or other Department approved methodology and 25 Pa. Code Chapter 139. The performance tests shall be conducted at the normal operating production rate of the presses for measurement of actual VOC emissions, including but not limited to the following:

- (1). Simultaneous measurement of the inlet and outlet of this oxidizer for determining destruction efficiency.
- (2). Gas flow at the inlet and outlet of this oxidizer.
- (3). Temperature and moisture content at the inlet and outlet of this oxidizer.

(d). At least thirty (30) days prior to the test, the Regional Air Quality Manager, shall be informed of the date and time of the test.

(e). Within sixty (60) days after the source test(s), two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

(f). In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.

SECTION D. Source Level Requirements

III. MONITORING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R.§§ 64.3 and 64.6.]

Using a Department approved method, the permittee shall continuously monitor the combustion zone temperature of this thermal oxidizer.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following on a monthly basis for this source:

- (a). The type of fuel consumed.
- (b). The amount of each fuel consumed.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R.§ 64.9.]

Using a Department approved method, the permittee shall continuously record the combustion zone temperature of this thermal oxidizer.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

The permittee shall record all excursions, corrective actions taken in response to each excursion, and the time elapsed until the corrective actions were taken in response to each excursion from the combustion zone temperature range permitted for this thermal oxidizer.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

The permittee shall maintain records of all monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable). The permittee shall also record the dates, times and durations, probable causes, and corrective actions taken for the incidents.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

The permittee shall keep records of all inspections and/or maintenance that is performed on this thermal oxidizer and associated monitoring equipment.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

SECTION D. Source Level Requirements

The permittee shall keep all data recorded for this thermal oxidizer and associated monitoring systems on file for a period of five (5) years, and the files shall be made available to the Department upon request.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

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

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The permittee shall record the following on a monthly basis for this source:

- (1). The type of fuel consumed.
- (2). The amount of each fuel consumed.

(b). The permittee shall calculate and record the emissions of criteria pollutants due to the combustion of fuel from this source on a monthly and 12-month rolling basis.

(c). The permittee shall keep the data collected in paragraphs (a) and (b) on file for a period of five (5) years, and the records shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

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

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

The permittee shall report all monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable), their dates, times, and durations, probable causes and corrective actions taken every six (6) months.

VI. WORK PRACTICE REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

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

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

SECTION D. Source Level Requirements

The permittee shall ensure that 90 percent of the approved monitoring data has been properly and accurately collected.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

The permittee shall utilize approved QA/QC practices that are adequate to ensure continuing validity of data and proper performance of the devices.

- (a). The permittee shall install detectors or sensors at a Department approved location for obtaining data that is representative of the monitored indicator.
- (b). The permittee shall develop verification procedures to confirm the operational status of the monitoring devices.
- (c). For QA/QC purposes, the permittee shall calibrate and check the accuracy of the monitoring equipment according to the manufacturer's recommended procedures.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

The permittee shall submit an implementation plan and schedule if the approved monitoring requires the installation, testing or other necessary activities. The schedule for completing installation and beginning operation of the monitoring may not exceed 180 days after the issuance of the permit.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

The permittee shall ensure that this thermal oxidizer has reached the minimum combustion zone temperature prior to placing any affected source on line.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

The permittee shall ensure that the maximum air-flow capacity of this thermal oxidizer is not exceeded prior to routing the exhaust of any additional source(s) to it.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate and maintain this source in accordance with manufacturer's specifications and good air pollution control practices.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

- (a). This thermal oxidizer shall be operated, in such a manner, that the temperature of the combustion chambers is maintained at a set point temperature of 1,500 degrees Fahrenheit and a minimum temperature of 1,490 degrees

SECTION D. Source Level Requirements

Fahrenheit on an hourly average to assure a destruction efficiency of 98 percent by weight.

(b). The permittee shall adhere to the approved temperature range for this thermal oxidizer so that the operation within the range of temperatures shall provide reasonable assurance of compliance. A departure from this temperature range over a specified averaging period shall be defined as an excursion.

022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall perform inspections and/or maintenance on this thermal oxidizer on at least a weekly basis.

VII. ADDITIONAL REQUIREMENTS.

023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

The permittee shall develop and implement a Quality Improvement Plan (QIP) as expeditiously as practicable, but not to exceed 60 days after the date that the QIP shall be developed and implemented was determined, if any of the following occur:

- (a). For properly and accurately collected data, accumulated excursions exceed two percent (2 %) of the data recorded for the temperature of the combustion zone of this thermal oxidizer.
- (b). Six (6) excursions occur in a six (6) month reporting period.
- (c). The Department determines after review of all reported information that the permittee has not responded acceptably to an excursion.

024 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

When developing and implementing a QIP to address excursions from the range of acceptable temperatures permitted for this thermal oxidizer, 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.

025 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

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 the Department with a copy, to include procedures for conducting more frequent, or improved, monitoring in conjunction with one or more of the following:

- (a). Improved preventive maintenance practices.
- (b). Process operation changes.
- (c). Appropriate improvements to the control methods.
- (d). Other steps appropriate to correct performance.

SECTION D. Source Level Requirements**# 026 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

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

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

027 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

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

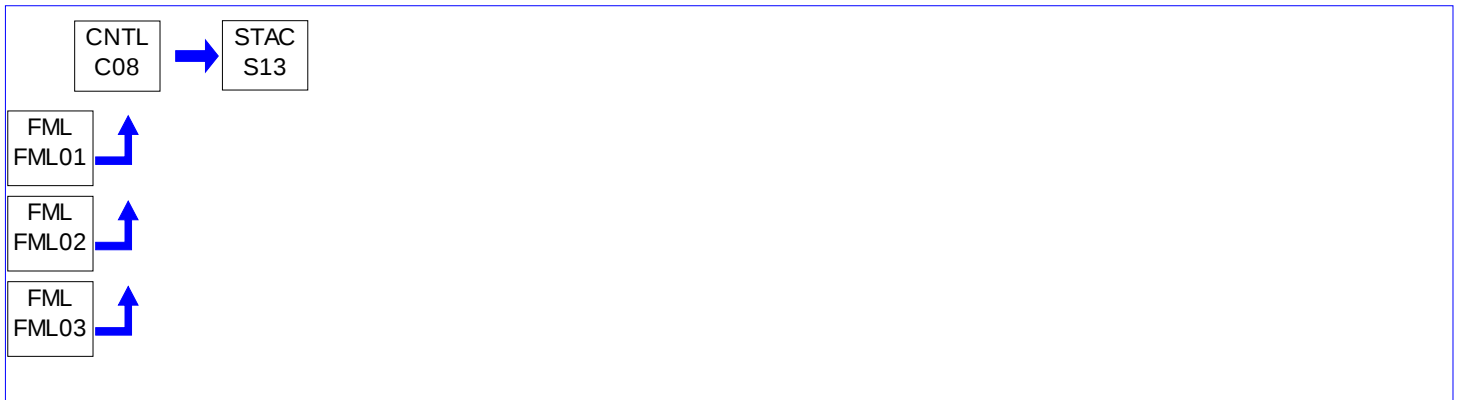
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: C08

Source Name: L & E THERMAL OXIDIZER

Source Capacity/Throughput: 3,922.000 CF/HR
44.200 Gal/HR

Natural Gas
Propane


I. RESTRICTIONS.

Fuel Restriction(s).

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This oxidizer shall be operated on propane or natural gas only.

II. TESTING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The permittee shall perform a stack test using the Department-approved procedures, every five (5) years or once within the life of the permit. Such testing shall be conducted at least eighteen (18) months prior to the expiration of this permit. The stack test results shall be submitted for review no later than six (6) months before the permit expiration.

(b). At least sixty (60) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

(c). The stack test shall, at a minimum, test the performance of this thermal oxidizer for the capture and destruction efficiency of volatile organic compounds from the presses associated with this thermal oxidizer. Tests shall be conducted in accordance with the provisions of U.S. EPA Methods 1, 2, 3, 4, 18, and 25A or other Department approved methodology and 25 Pa. Code Chapter 139. The performance tests shall be conducted at the normal operating production rate of the presses for measurement of actual VOC emissions, including but not limited to the following:

- (1). Simultaneous measurement of the inlet and outlet of this oxidizer for determining destruction efficiency.
- (2). Gas flow at the inlet and outlet of this oxidizer.
- (3). Temperature and moisture content at the inlet and outlet of this oxidizer.

(d). At least thirty (30) days prior to the test, the Regional Air Quality Manager, shall be informed of the date and time of the test.

(e). Within sixty (60) days after the source test(s), two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

(f). In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.

SECTION D. Source Level Requirements

III. MONITORING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R.§§ 64.3 and 64.6.]

Using a Department approved method, the permittee shall continuously monitor the combustion zone temperature of this thermal oxidizer.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following on a monthly basis for this source:

- (a). The type of fuel consumed.
- (b). The amount of each fuel consumed.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R.§ 64.9.]

Using a Department approved method, the permittee shall continuously record the combustion zone temperature of this thermal oxidizer.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

The permittee shall record all excursions, corrective actions taken in response to each excursion, and the time elapsed until the corrective actions were taken in response to each excursion from the combustion zone temperature range permitted for this thermal oxidizer.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

The permittee shall maintain records of all monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable). The permittee shall also record the dates, times and durations, probable causes, and corrective actions taken for the incidents.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

The permittee shall keep records of all inspections and/or maintenance that is performed on this thermal oxidizer and associated monitoring equipment.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

SECTION D. Source Level Requirements

The permittee shall keep all data recorded for this thermal oxidizer and associated monitoring systems on file for a period of five (5) years, and the files shall be made available to the Department upon request.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

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

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The permittee shall record the following on a monthly basis for this source:

- (1). The type of fuel consumed.
- (2). The amount of each fuel consumed.

(b). The permittee shall calculate and record the emissions of criteria pollutants due to the combustion of fuel from this source on a monthly and 12-month rolling basis.

(c). The permittee shall keep the data collected in paragraphs (a) and (b) on file for a period of five (5) years, and the records shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

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

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.9.]

The permittee shall report all monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable), their dates, times, and durations, probable causes and corrective actions taken every six (6) months.

VI. WORK PRACTICE REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

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

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

SECTION D. Source Level Requirements

The permittee shall ensure that 90 percent of the approved monitoring data has been properly and accurately collected.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

The permittee shall utilize approved QA/QC practices that are adequate to ensure continuing validity of data and proper performance of the devices.

- (a). The permittee shall install detectors or sensors at a Department approved location for obtaining data that is representative of the monitored indicator.
- (b). The permittee shall develop verification procedures to confirm the operational status of the monitoring devices.
- (c). For QA/QC purposes, the permittee shall calibrate and check the accuracy of the monitoring equipment according to the manufacturer's recommended procedures.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

The permittee shall submit an implementation plan and schedule if the approved monitoring requires the installation, testing or other necessary activities. The schedule for completing installation and beginning operation of the monitoring may not exceed 180 days after the issuance of the permit.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

The permittee shall ensure that this thermal oxidizer has reached the minimum combustion zone temperature prior to placing any affected source on line.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

The permittee shall ensure that the maximum air-flow capacity of this thermal oxidizer is not exceeded prior to routing the exhaust of any additional source(s) to it.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall operate and maintain this source in accordance with manufacturer's specifications and good air pollution control practices.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. §§ 64.3 and 64.6.]

- (a). This thermal oxidizer shall be operated, in such a manner, that the temperature of the combustion chambers is maintained at a set point temperature of 1,500 degrees Fahrenheit and a minimum temperature of 1,490 degrees

SECTION D. Source Level Requirements

Fahrenheit on an hourly average to assure a destruction efficiency of 98 percent by weight.

(b). The permittee shall adhere to the approved temperature range for this thermal oxidizer so that the operation within the range of temperatures shall provide reasonable assurance of compliance. A departure from this temperature range over a specified averaging period shall be defined as an excursion.

022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall perform inspections and/or maintenance on this thermal oxidizer on at least a weekly basis.

VII. ADDITIONAL REQUIREMENTS.

023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

The permittee shall develop and implement a Quality Improvement Plan (QIP) as expeditiously as practicable, but not to exceed 60 days after the date that the QIP shall be developed and implemented was determined, if any of the following occur:

- (a). For properly and accurately collected data, accumulated excursions exceed two percent (2 %) of the data recorded for the temperature of the combustion zone of this thermal oxidizer.
- (b). Six (6) excursions occur in a six (6) month reporting period.
- (c). The Department determines after review of all reported information that the permittee has not responded acceptably to an excursion.

024 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

When developing and implementing a QIP to address excursions from the range of acceptable temperatures permitted for this thermal oxidizer, 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.

025 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

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 the Department with a copy, to include procedures for conducting more frequent, or improved, monitoring in conjunction with one or more of the following:

- (a). Improved preventive maintenance practices.
- (b). Process operation changes.
- (c). Appropriate improvements to the control methods.
- (d). Other steps appropriate to correct performance.

SECTION D. Source Level Requirements**# 026 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

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

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

027 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 C.F.R. § 64.8.]

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

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



SECTION E. Alternative Operation Requirements.

No Alternative Operations exist for this Title V facility.

SECTION F. Emission Restriction Summary.

Source Id	Source Description		
031	BOILER 1		
Emission Limit		Pollutant	
1.200	Lbs/MMBTU		SOX
0.400	Lbs/MMBTU		TSP
032	BOILERS 2 & 3		
Emission Limit		Pollutant	
1.200	Lbs/MMBTU		SOX
033	PUMPHOUSE BOILER 4		
Emission Limit		Pollutant	
1.200	Lbs/MMBTU		SOX
104A	OFFSET PRESS 1004 W/DRYING OVEN		
Emission Limit		Pollutant	
500.000	PPMV	dry standard conditions; applicable to each source listed under Source Group 002C	SOX
0.040	gr/DRY FT3	applicable to each press listed under Source Group 002C	TSP
4.300	Lbs/Hr		VOC
8.800	Tons/Yr		VOC
104.100	Lbs/Day		VOC
106A	OFFSET PRESS 1006 W/DRYING OVEN		
Emission Limit		Pollutant	
500.000	PPMV	dry standard conditions; applicable to each source listed under Source Group 002C	SOX
0.040	gr/DRY FT3	applicable to each press listed under Source Group 002C	TSP
7.100	Lbs/Hr		VOC
9.700	Tons/Yr		VOC
169.700	Lbs/Day		VOC
109	OFFSET PRESS 1009 W/DRYING OVEN		
Emission Limit		Pollutant	
500.000	PPMV	dry standard conditions; applicable to each source listed under Source Group 002C	SOX
0.040	gr/DRY FT3	applicable to each press listed under Source Group 002C	TSP
7.000	Lbs/Hr		VOC
9.300	Tons/Yr		VOC
167.000	Lbs/Day		VOC
110	OFFSET PRESS 1010 W/DRYING OVEN		
Emission Limit		Pollutant	
500.000	PPMV	dry standard conditions; applicable to each source listed under Source Group 002C	SOX
0.040	gr/DRY FT3	applicable to each press listed under Source Group 002C	TSP

SECTION F. Emission Restriction Summary.

Source Id	Source Description		
10.600	Tons/Yr	VOC	
112	OFFSET PRESS 1011 (8 STATION W/ DRYING OVEN)		
Emission Limit		Pollutant	
6.200	Tons/Yr	12-month rolling sum basis	Hazardous Air Pollutants
500.000	PPMV	dry standard conditions	SOX
0.040	gr/CF	dry standard conditions	TSP
14.700	Tons/Yr	12-month rolling sum basis	VOC
220	INK JET PRINTER UNITS		
Emission Limit		Pollutant	
12.900	Tons/Yr	any consecutive 12-month rolling period	VOC
301	(10) PARTS WASHERS - SOLVENT BASED		
Emission Limit		Pollutant	
2.700	Tons/Yr	any consecutive 12-month rolling sum period	VOC
3.000	Lbs/Hr		VOC
15.000	Lbs/Day		VOC
309	FIRE PUMP		
Emission Limit		Pollutant	
500.000	PPMV		SOX
0.040	gr/CF		TSP
401	(2) EMERGENCY GENERATORS		
Emission Limit		Pollutant	
500.000	PPMV		SOX
0.040	gr/CF		TSP

Site Emission Restriction Summary

Emission Limit		Pollutant	
25.000	Tons/Yr	Less than this value for a Combination of All HAPs on a 12-month Rolling Sum Basis	Hazardous Air Pollutants
10.000	Tons/Yr	Less than this value for a Single HAP on a 12-month Rolling Sum Basis	Hazardous Air Pollutants



SECTION F. Emission Restriction Summary.

SECTION G. Miscellaneous.

#001. Insignificant Activities.

(a). The Department has determined that the emissions from the following activities, excluding those indicated as site level requirements, in Section C, of this permit, do not require any additional monitoring, recordkeeping, reporting, testing, or work practice standards:

- (1). Natural gas-fired water heaters, including the water heater formerly under Source ID No. 111.
- (2). Empty drum storage.
- (3). Paper balers and shedders.
- (4). Fork lift trucks.
- (5). Natural gas pressure regulator vents.
- (6). Air Compressors and pneumatically operated equipment.
- (7). Bench scale lab equipment.
- (8). System and demineralizer vents.
- (9). Quality control/research and development activities.
- (10). Calibration and maintenance activities.
- (11). Non-chromium based cooling towers.
- (12). Maintenance and janitorial activities.
- (13). 1.52 MMBTU/hr Propane Vaporizer (Tech Engineering, Inc. V-1400-GEH/M-125-EA).
- (14). Ink Jet Printers using Water Based Inks.
- (15). Pre-press Cleaning Operations (formerly Source ID No. 302).
- (16). Plating Ovens (formerly Source ID No. 304).
- (17). Waste Handling Operations (formerly Source ID No. 307).
- (18). Two 500-gallon aboveground storage tanks for Diesel Fuel (formerly Source ID No. 308)

(b). The sources in paragraph (a)(1) above shall be operated and maintained in accordance with manufacturer's specifications and good air pollution control practices.

(c). The sources in paragraph (a)(1) above shall only be fired on natural gas as the primary fuel and propane as a secondary fuel.

(d). The sources in paragraphs (a)(15), (a)(16), (a)(17), and (a)(18) above were limited by the RACT Operating Permit (OP_46-0018A) to 3 lbs VOC/hr, 15 lbs VOC/day, and 2.75 tons VOC per year on a 12-month rolling sum basis. Emissions were determined to be much less than the permitted amounts and met the criteria of unreportable sources of emissions in accordance with 25 Pa. Code § 135.2(6). The permittee is required through the renewal of the Title V Operating Permit (APS No. 346055; Authorization No. 932321) to update their calculations of the potential to emit for these sources and submit the calculations to the Department for approval. Once approved, the permittee shall keep these calculations on file to demonstrate that these sources are insignificant for permitting purposes for as long as the sources are in operation at this facility.

#002. The following Emission Reduction Credits have been generated by the facility after the application of Reasonably Available Control Technology (RACT) requirements:

- (a). The permanent shut down of Press #1001 generating 7.1 tons per calendar year.
- (b). The permanent shut down of Press #1002 generating 4.0 tons per calendar year.
- (c). The permanent shut down of Press #1003 generating 3.8 tons per calendar year.
- (d). The change in controls used on Press number #1004 from a catalytic incinerator to a more efficient thermal oxidizer, generating 2.2 tons of emission reduction credits per calendar year.

#003. The allowable emissions for offset presses #1004, #1005, #1006, and #1008, are based on the following criteria from test results and are subject to Department review:

- (a). A thermal oxidizer destruction efficiency is 98 percent.
- (b). A VOC capture efficiency of 100 percent for ink oil and 70 percent for the etch solution.
- (c). The VOC capture efficiency for the automated wash is 40 percent, with a cloth retention of 33 percent, and all other remaining VOCs classified as fugitive emissions.
- (d). The cloth retention for hand washing is 50 percent with the remainder classified as fugitive emissions.

#004. The allowable emissions for offset presses #1009 and #1010, are based on Conditions #002(b) and (d) above, except that the oxidizer destruction efficiency is 99 percent.

SECTION G. Miscellaneous.

#005. The requirements for this Title V operating permit were derived from the operating permit OP-46-0018A.

#006. 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.

#007. APS #346055: Authorization #: 376883. Title V revised for settlement of an appeal and the addition of sources that do not require plan approval. The following items have been changed in the Title V Permit:

(a). Throughputs and capacities were updated in Sections A and D of the Title V Permit. Section G, Condition #005 was added to state that the throughputs were not permitted limits.

(b). All typographical errors in the original permit were corrected. The compliance certification date was clarified, and the language for the testing of inks, solvents, and fountain solutions for Source ID Nos. 104A, 105A, 106A, 108A, 109 and 110 was clarified.

(c). No surface coatings containing volatile organic compounds are used in the lithographic presses so the Department has removed a reporting requirement for volatile organic compounds in surface coatings from Section C. In the testing requirements of 104A, 105A, 106A, 108A, 109, and 110, references to 25 Pa. Code §§ 129.51 and 129.52 were removed.

(d). The condition for recording the type and amount of fuel used was deleted from Section C, Condition #013, since there are conditions for monitoring and recording fuel type and use for each source that uses fuel in Section D.

(e). The monitoring and record keeping frequency for all fuel sources (boilers, presses, and water heater) have been changed from weekly to monthly. This change does not result in an increase of emissions from these sources.

(f). For Source ID Nos. 104A, 105A, 106A, 108A, 109 and 110, the time period for compliance was changed from "calendar year (January 1 to December 31)" basis to "a 12-month rolling period" basis.

(g). Method 24A only applies for rotogravure presses, not lithographic presses, so Method 24A was removed from the testing requirements for Source ID Nos. 104A, 105A, 106A, 108A, 109, and 110.

(h). The frequency of monitoring and recording the number of image impressions and operating hours has changed from "per job" to "per press per day."

(i). The permittee stated in writing that the MEGTEC thermal oxidizer and the Titan thermal oxidizer could not be operated in tandem. The language of the permit has been changed to reflect this.

(j). The two propane vaporizers (Source ID No. 241) have been removed from the facility and replaced with a single, larger propane vaporizer. No plan approval was necessary (RFD 46-A0-1905). Emissions from this new unit have no permitted limitations and are considered insignificant.

(k). All of the film processors have been removed from the facility. Source ID No. 303 was removed from the permit.

(l). The facility has two new boilers. An RFD determined that no plan approval was necessary (46-A01-1817). Applicable requirements are similar to existing boilers at the facility.

(m). The facility installed a new ink jet printer. An RFD determined that no plan approval was necessary (46-A01-2069). Applicable requirements are similar to the existing ink jet printers at the facility.

(n). The new cold cleaning machine requirements from 25 Pa. Code § 129.63(a) were added to the record keeping and work practice standard requirements for the parts washers (Source ID No. 301).

(o). For Source ID Nos. 302, 304, 305, 306, and 307, the permittee shall monitor and record information on a weekly basis between January 1, 2003 and December 31, 2003. After December 31, 2003, the permittee may ask the Department to decrease monitoring and record keeping to monthly for these sources if they can demonstrate that the volatile organic compound emissions are below 20% of the applicable limits.

#008. APS No. 346055; Authorization No. 588697: This permit was revised to incorporate plan approval PA-46-0018C into the permit. This plan approval proposed the removal of Source ID No. 108A (Offset Lithographic Press #1008A), the addition of Offset

SECTION G. Miscellaneous.

Lithographic Press #1101 (Source ID No. 112), and the addition of a new L & E Regenerative Thermal Oxidizer (Source ID No. C08) that controls volatile organic compound emissions from Source ID Nos. 104A, 105A, 106A, and 112.

#009. APS No. 346055; Authorization No. 607468: This permit was revised to remove a condition inadvertently added to Source ID Nos. 109 and 110, to change the combustion zone temperature requirements for the L & E and the MEGTEC Regenerative Thermal Oxidizers, and to change the requirement to have two of the three thermal oxidizers at minimum combustion zone temperature prior to operating Source ID Nos. 104A, 105A, 106A, and 112 if the gas flow into one single thermal oxidizer does not exceed the thermal oxidizer's capacity.

#010. APS No. 346055; Authorization No. 628731: Renewal of the Title V Permit. The permit was revised as follows:

- (a). CAM requirements were added to Source ID Nos. 104A, 105A, 106A, 109, 110, and 112.
- (b). The monitoring and recordkeeping frequency for Source ID Nos. 302, 304, 305, 306, 307, and 308 was changed from weekly to monthly, since the company submitted records to show that the emissions are below 20 percent of the limits of 3 pounds VOC per hour, 15 pounds VOC per day, and 2.7 tons VOC per year for each source. This fulfilled the conditions of the amendment to the initial Title V Permit that was created in response to an appeal (see Section G, Condition #007(o)).
- (c). Source ID No. 301 was renamed from "Safety Kleen Degreasers" to "Parts Washers."
- (d). The material throughput for Source ID No. 302 was changed from "heptane" to "cleaning solvent" to add operational flexibility.
- (e). The condition to stack test for HAPs content for the MEGTEC Thermal Oxidizer was removed from the permit.
- (f). The language allowing for the operation of one thermal oxidizer to control the emissions from Source ID Nos. 104A, 105A, 106A, and 112 if the capacity of the thermal oxidizer is not exceeded was clarified (Section G, Conditions #007(i), #008, #009).
- (g). All Ink Jet Printers are now under one source identification number (Source ID No. 220).

#011. APS No. 346055; Authorization No. 830896: This action is for a Minor Modification to the Title V Permit. Brown Printing Company is electing to take a restriction on the amount of each single hazardous air pollutant and the total hazardous air pollutants that are emitted from the entire facility to below major source thresholds for HAPs. A condition was added to Section C of this permit to limit single HAP emissions to less than 10 tons per year on a 12-month rolling sum basis and limit the combined HAP emissions to less than 25 tons per year on a 12-month rolling sum basis.

#012. APS No. 346055; Authorization No. 932321: This action is for the renewal of the Title V Operating Permit. This action includes the removal of Source ID Nos. 105A, 305, 306, and C04 because these sources are no longer in operation at this facility. This action includes the summary of RACT requirements in Source Group categories for the printing presses.

#013. In the renewal application (APS No. 346055; Authorization No. 932321), Brown Printing Company requested a change in the monitoring frequency for odors, visible emissions, and fugitive particulate matter from weekly to monthly. The Department responded in a letter dated December 11, 2012 allowing the monitoring frequency for observations of odors, visible emissions, and fugitive particulate matter to change from weekly to monthly. This monitoring frequency shall remain at monthly until an event occurs in which the Department finds a violation as per the requirements in Section C, Condition #011(e).

#13. APS No. 850536; AUTH No. 1038813; Date: August 2014 - The permit is amended for Ownership change.



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