



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: August 26, 2022 Effective Date: October 26, 2023
Revision Date: October 26, 2023 Expiration Date: August 25, 2027
Revision Type: Modification

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: 08-00002

Federal Tax Id - Plant Code: 82-2298836-1

Owner Information

Name: DUPONT SPECIALTY PROD USA LLC
Mailing Address: 192 PATTERSON BLVD
TOWANDA, PA 18848-8208

Plant Information

Plant: DUPONT SPECIALTY PROD USA LLC/TOWANDA PLT
Location: 08 Bradford County 08924 North Towanda Township
SIC Code: 3861 Manufacturing - Photographic Equipment And Supplies

Responsible Official

Name: TAYLOR MYER
Title: PLANT MGR
Phone: (570) 268 - 3520 Email: taylor.myer@dupont.com

Permit Contact Person

Name: CHRISTA PHILLIPS
Title: EHS MGR
Phone: (570) 268 - 3581 Email: christa.g.phillips@dupont.com

[Signature] \_\_\_\_\_
MUHAMMAD Q. ZAMAN, ENVIRONMENTAL PROGRAM MANAGER, NORTHCENTRAL REGION



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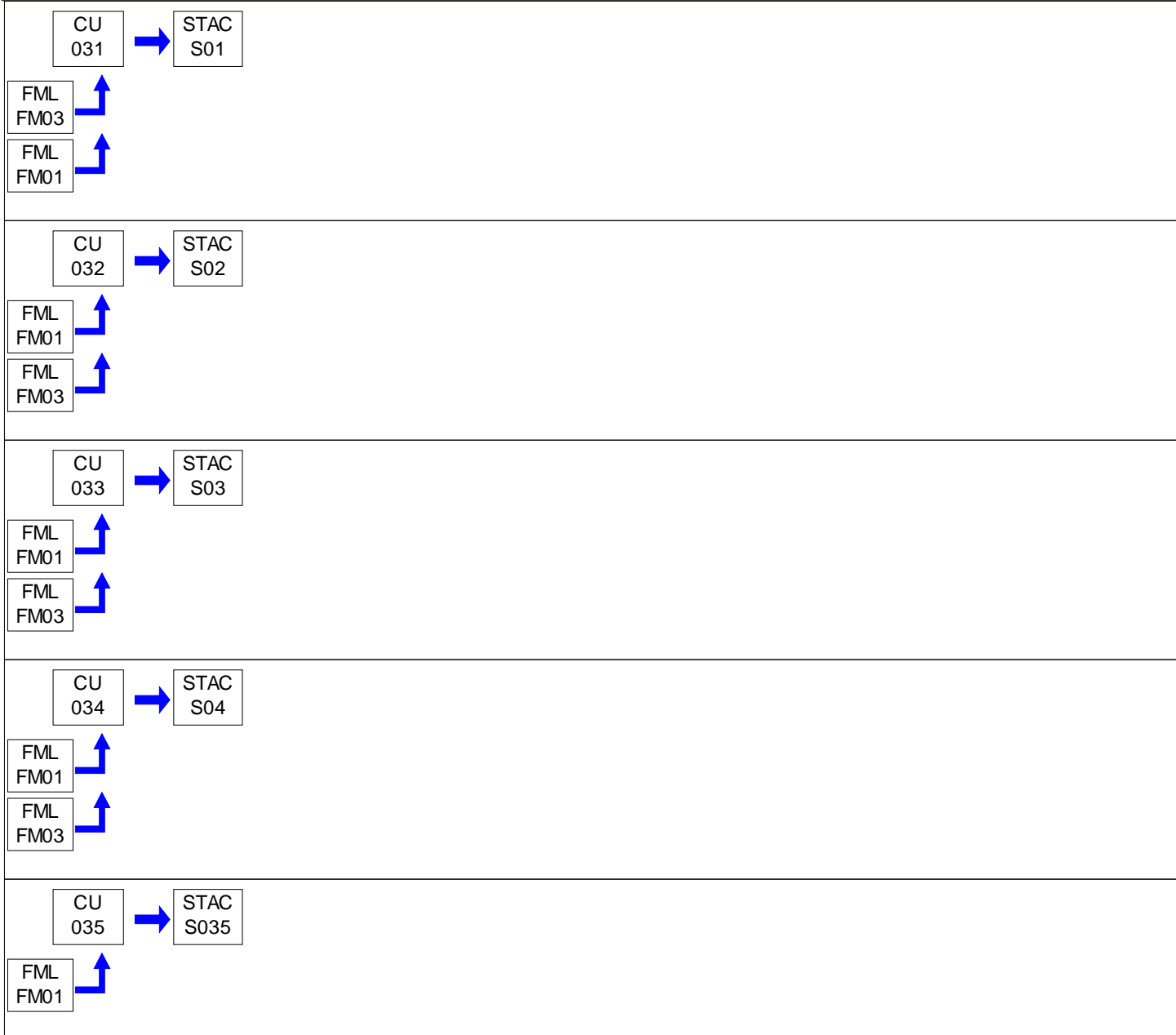
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**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
031	BOILER 1	30.500 MMBTU/HR	
032	BOILER 2	30.500 MMBTU/HR	
033	BOILER 3	30.500 MMBTU/HR	
034	BOILER 4	33.500 MMBTU/HR	
035	THERMAL FLUID HEATER (#11 COATER)		
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P160	TWO-ROLL CORONA FILM TREATER		
P163	PARTS WASHER		
P164	PROPANE FIRED EMERGENCY GENERATOR ENGINE		
C141	REECO THERMAL OXIDIZER (RTO 1)		
C143	THERMO-CAT CATALYTIC OXIDIZER		
C144	SCRUBBER (#2 COATER ONLY)		
C158	BUILDING 41 CONDENSER		
C159	DURR REGENERATIVE THERMAL OXIDIZER (RTO 4)		
C160A	CATALYTIC OZONE DECOMPOSER		
C160B	CATALYTIC OZONE DECOMPOSER		
FM01	NATURAL GAS LINE		
FM03	#2 FUEL OIL TANK		
FM05	PROPANE TANK		
S01	STACK, BOILER 1		
S02	STACK, BOILER 2		
S03	STACK, BOILER 3		
S035	STACK, THERMAL FLUID HEATER (#11 COATER)		
S04	STACK, BOILER 4		
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S155	TREATER/FURNACE STACKS		
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S159	RTO 4 STACK		
S160A	CATALYTIC OZONE DECOMPOSER EXHAUST		
S160B	CATALYTIC OZONE DECOMPOSER EXHAUST		

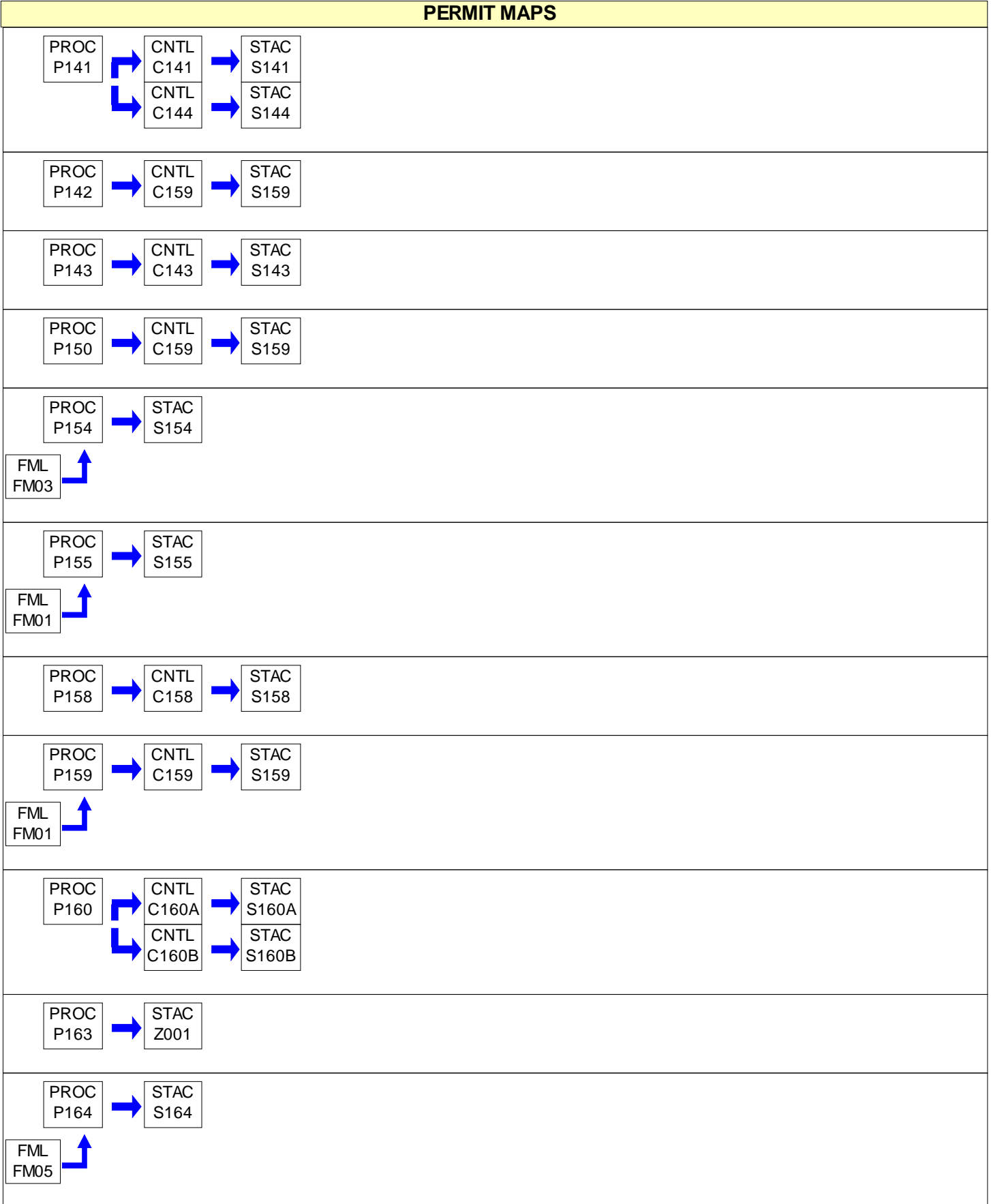
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
S164	PROPANE FIRED EMERGENCY GENERATOR ENGINE STACK		
Z001	FUGITIVE EMISSIONS		

**PERMIT MAPS**



### PERMIT MAPS



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

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

**#002 [25 Pa. Code § 121.7]****Prohibition of Air Pollution**

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

**#003 [25 Pa. Code § 127.512(c)(4)]****Property Rights**

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

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

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

**#005 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446(e), 127.503 & 127.704(b)]****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. The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.

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

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

**#006 [25 Pa. Code §§ 127.450(a)(4) & 127.464(a)]****Transfer of Ownership or Operational Control**

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

- (1) The Department determines that no other change in the permit is necessary;
- (2) A written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee; and,
- (3) A compliance review form has been submitted to the Department and the permit transfer has been approved by

**SECTION B. General Title V Requirements**

the Department.

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

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

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

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

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

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

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

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

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

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

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

**#009 [25 Pa. Code § 127.512(c)(2)]****Need to Halt or Reduce Activity Not a Defense**

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



**SECTION B. General Title V Requirements****#010 [25 Pa. Code §§ 127.411(d) & 127.512(c)(5)]****Duty to Provide Information**

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

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

**#011 [25 Pa. Code §§ 127.463, 127.512(c)(3) & 127.542]****Reopening and Revising the Title V Permit for Cause**

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

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

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

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

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

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

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

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

**#012 [25 Pa. Code § 127.543]****Reopening a Title V Permit for Cause by EPA**

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

**#013 [25 Pa. Code § 127.522(a)]****Operating Permit Application Review by the EPA**

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

R3\_Air\_Apps\_and\_Notices@epa.gov

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

**SECTION B. General Title V Requirements****#014 [25 Pa. Code § 127.541]****Significant Operating Permit Modifications**

When permit modifications during the term of this permit do not qualify as minor permit modifications or administrative amendments, the permittee shall submit an application for significant Title V permit modifications in accordance with 25 Pa. Code § 127.541. Notifications to EPA, pursuant to 25 PA Code §127.522(a), if required, shall be submitted, to the following EPA e-mail box:

R3\_Air\_Apps\_and\_Notices@epa.gov

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

**#015 [25 Pa. Code §§ 121.1 & 127.462]****Minor Operating Permit Modifications**

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

R3\_Air\_Apps\_and\_Notices@epa.gov

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

**#016 [25 Pa. Code § 127.450]****Administrative Operating Permit Amendments**

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

R3\_Air\_Apps\_and\_Notices@epa.gov

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

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

**#017 [25 Pa. Code § 127.512(b)]****Severability Clause**

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

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

(a) The permittee shall pay fees to the Department in accordance with the applicable fee schedules in 25 Pa. Code Chapter 127, Subchapter I (relating to plan approval and operating permit fees). The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

(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.

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(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 maintenance fee according to the following fee schedule established in 25 Pa. Code § 127.704(d) on or before December 31 of each year for the next calendar year.

(1) Eight thousand dollars (\$8,000) for calendar years 2021—2025.

(2) Ten thousand dollars (\$10,000) for calendar years 2026—2030.

(3) Twelve thousand five hundred dollars (\$12,500) for the calendar years beginning with 2031.

**#019 [25 Pa. Code §§ 127.14(b) & 127.449]****Authorization for De Minimis Emission Increases**

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

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

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

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

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

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

(2) One ton of NO<sub>x</sub> from a single source during the term of the permit and 5 tons of NO<sub>x</sub> 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 PM<sub>10</sub> from a single source during the term of the permit and 3.0 tons of PM<sub>10</sub> 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.

**SECTION B. General Title V Requirements**

(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 of the following:

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

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

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

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

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

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

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

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

**#020 [25 Pa. Code §§ 127.11a & 127.215]****Reactivation of Sources**

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

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

**#021 [25 Pa. Code §§ 121.9 & 127.216]****Circumvention**

(a) The owner of this Title V facility, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the

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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.

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

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

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

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

Enforcement & Compliance Assurance Division  
Air, RCRA and Toxics Branch (3ED21)  
Four Penn Center  
1600 John F. Kennedy Boulevard  
Philadelphia, PA 19103-2852

The Title V compliance certification shall be emailed to EPA at R3\_APD\_Permits@epa.gov.

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

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

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

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

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

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

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

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(5) The results of the analyses.

(6) The operating conditions as existing at the time of sampling or measurement.

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

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

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

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

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

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

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

**#026 [25 Pa. Code § 127.513]****Compliance Certification**

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

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

(b) The compliance certification shall be postmarked or hand-delivered no later than thirty days after each anniversary of the date of issuance of this Title V Operating Permit, or on the submittal date specified elsewhere in the permit, to the Department in accordance with the submission requirements specified in Section B, Condition #022 of this permit. The Title V compliance certification shall be emailed to EPA at R3\_APD\_Permits@epa.gov.

**SECTION B. General Title V Requirements****#027 [25 Pa. Code § 127.3]****Operational Flexibility**

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

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

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

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

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

- (1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:
  - (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
  - (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

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

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

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

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

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

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



**SECTION B. General Title V Requirements**

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

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

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

(2) The permittee fails to submit a compliance schedule or include a statement in the compliance certification required under Section B, Condition #026 of this permit that the Title V facility is in compliance with the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68, and 25 Pa. Code § 127.512(i).

**#029 [25 Pa. Code § 127.512(e)]****Approved Economic Incentives and Emission Trading Programs**

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

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

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

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

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

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

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

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

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

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

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

**#031 [25 Pa. Code §135.3]****Reporting**

(a) The permittee shall submit by March 1 of each year an annual emissions report for the preceding calendar year. The report shall include information for all active 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. All air emissions from the facility should be estimated and reported.

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

**#032 [25 Pa. Code §135.4]****Report Format**

Emissions reports shall contain sufficient information to enable the Department to complete its emission inventory. Emissions reports shall be made by the source owner or operator in a format specified by the Department.



**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

No person may permit the emission into the outdoor atmosphere of fugitive air contaminants from a source other than the following:

- (1) Construction or demolition of buildings or structures
- (2) Grading, paving and maintenance of roads and streets
- (3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.
- (4) Clearing of land
- (5) Stockpiling of materials.
- (6) Open burning operations.
- (7) Sources and classes of sources other than those identified above, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
  - (a) The emissions are of minor significance with respect to causing air pollution.
  - (b) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

**# 002 [25 Pa. Code §123.2]****Fugitive particulate matter**

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

**# 003 [25 Pa. Code §123.41]****Limitations**

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

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

**# 004 [25 Pa. Code §123.42]****Exceptions**

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

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

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

[Additional authority for this permit condition is derived from the permittee requesting this elective restriction]

The total combined volatile organic compound, non-volatile organic compound and volatile hazardous air pollutant fugitive emissions from Sources P141, P142, P143, P150 and P159 due to emergency evacuations shall not exceed 0.15 tons in

**SECTION C. Site Level Requirements**

any 12 consecutive month period.

**Fuel Restriction(s).****# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The #2 fuel oil used in combustion sources at the facility shall not exceed 0.0015% sulfur by weight.

**II. TESTING REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall conduct tests which demonstrate through Method 24 of 40 CFR Part 60 and 25 Pa. Code Chapter 139 that all solvents and coatings used at the facility are in conformity with the VOC content and VOC emission limitations required by this permit, or the permittee shall maintain documentation from the supplier/manufacturer which certifies through Method 24 of 40 CFR Part 60 and 25 Pa. Code Chapter 139 that all solvents and coatings used at the facility are in conformity with the VOC content and VOC emission limitations required by this permit.

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

The permittee shall submit upon request any fuel oil analyses or samples that the Department may deem necessary.

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

- (a) At least sixty (60) days prior to the performance of the stack testing required by this permit, a test plan shall be submitted to the Department for evaluation. The plan shall contain a description of the proposed test methods and dimensioned drawings or sketches showing the test port locations.
- (b) The Department shall be given at least fourteen (14) days advance notice of the scheduled dates for the performance of the stack testing required by this permit.
- (c) Within sixty (60) days of the completion of the stack tests required by this permit, two copies of the test report shall be submitted to the Department. This report shall contain the results of the tests, a description of the testing and analytical procedures actually used in performance of the tests, all process and operating data collected during the tests, a copy of all raw data, and a copy of all calculations generated during data analysis.

**# 010 [25 Pa. Code §139.1]****Sampling facilities.**

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

**# 011 [25 Pa. Code §139.11]****General requirements.**

- (a) As specified in 25 Pa. Code Section 139.11(1), performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.
- (b) As specified in 25 Pa. Code Section 139.11(2), the Department will consider test results for approval where sufficient information is provided to verify the source conditions existing at the time of the test and where adequate data is available to show the manner in which the test was conducted. Information submitted to the Department shall include, as a minimum, all of the following:
- (1) A thorough source description, including a description of any air cleaning devices and the flue.

**SECTION C. Site Level Requirements**

- (2) Process conditions, for example, the charging rate of raw material or rate of production of final product, boiler pressure, oven temperature and other conditions which may affect emissions from the process.
- (3) The location of sampling ports.
- (4) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage of CO, CO<sub>2</sub>, O<sub>2</sub> and N<sub>2</sub>), static and barometric pressures.
- (5) Sample collection techniques employed, including procedures used, equipment descriptions and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met.
- (6) Laboratory procedures and results.
- (7) Calculated results.

**III. MONITORING REQUIREMENTS.****# 012 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

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

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

(a) The permittee shall conduct a weekly inspection of the facility during daylight hours while the facility is operating to detect visible emissions, visible fugitive emissions and malodorous air emissions. Weekly inspections are necessary to determine:

- (1) the presence of visible emissions,
- (2) the presence of visible fugitive emissions,
- (3) the presence of malodors beyond the boundaries of the facility.

(b) All detected visible emissions or visible fugitive emissions shall be reported to the manager of the facility.

**IV. RECORDKEEPING REQUIREMENTS.****# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall keep records of the weekly inspections required pursuant to Condition #015 herein. The records shall include the name of the company representative performing each inspection, the date and time of each inspection, a description of any visible air contaminant emission, fugitive air contaminant emission or malodorous air contamination observed to be in excess of an emission limit, the name of the facility manager to whom notice of any observed excessive emission was given, a description of any corrective action taken to eliminate/reduce any observed excessive emission and the date and time any such corrective action taken.

(b) All records generated pursuant to this permit condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

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

(a) The permittee shall keep records of the volatile organic compound, non-volatile organic compound and volatile hazardous air pollutants fugitive emissions from Sources P141, P142, P143, P150 and P159 in the event of an emergency

**SECTION C. Site Level Requirements**

evacuation of sources listed above.

(b) All records generated pursuant to this permit condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

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

(a) The permittee shall maintain records of test reports or documentation from the supplier/manufacturer which certifies through: Method 24, 40 CFR Part 60, Appendix A, testing, and in accordance with 25 Pa. Code Chapter 139 testing, that all solvents and coatings used at the facility are in conformity with the VOC content and VOC emission limitations required by this permit.

(b) All records generated pursuant to this permit condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**# 017 [25 Pa. Code §135.5]****Recordkeeping**

The permittee shall maintain and make available upon request by the Department records including computerized records that may be necessary to comply with Sections 135.3 and 135.21 (relating to reporting; and emission statements). These may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions.

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

(a) The permittee shall submit semi-annual reports to the Department which include the volatile organic compound, non-volatile organic compound and volatile hazardous air pollutants fugitive emissions from Sources P141, P142, P143, P150 and P159 in the event of each emergency evacuation of sources listed above.

(b) The semi-annual reports shall be submitted to the Department by no later than March 1 (for January 1 through December 31 of the previous year) and September 1 (for July 1 of the previous year through June 30 of the concurrent year).

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

(a) The permittee shall submit the annual compliance certifications to the Department and EPA Region III, as specified in Condition #026 of Section B, General Title V Requirements, no later than September 1 (from July 1 of the previous year through June 30 of the concurrent year).

(b) The permittee shall submit the semi-annual reports of required monitoring specified in this operating permit to the Department, pursuant to Condition #023 of Section B, General Title V Requirements, no later than September 1 (for January 1 through June 30 of the concurrent year) and March 1 (for July 1 through December 31 of the previous year).

(c) The following email address shall be used to submit the annual compliance certifications and semi-annual reports to the EPA Region III: R3\_APD\_Permits@epa.gov.

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

The permittee shall submit all requested reports in accordance with the Department's suggested format.

**# 021 [25 Pa. Code §127.442]****Reporting requirements.**

(a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to

**SECTION C. Site Level Requirements**

unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

(b) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall submit a written or emailed report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.

(c) The report shall describe the following:

1. name, permit or authorization number, and location of the facility,
2. nature and cause of the malfunction, emergency or incident,
3. date and time when the malfunction, emergency or incident was first observed,
4. expected duration of excess emissions,
5. estimated rate of emissions,
6. corrective actions or preventative measures taken.

(d) Any malfunction, emergency or incident of excess emissions that is not subject to the notice requirements of paragraph (b) of this condition shall be reported to the Department by telephone within 24 hours (or by 4:00 PM of the next business day, whichever is later) of discovery and in writing or by e-mail within five (5) business days of discovery. The report shall contain the same information required by paragraph (c), and any permit specific malfunction reporting requirements.

(e) During an emergency an owner or operator may continue to operate the source at their discretion provided they submit justification for continued operation of a source during the emergency and follow all the notification and reporting requirements in accordance with paragraphs (b)-(d), as applicable, including any permit specific malfunction reporting requirements.

(f) Reports regarding malfunctions, emergencies or incidents of excess emissions shall be submitted to the appropriate DEP Regional Office Air Program Manager.

(g) Any emissions resulted from malfunction or emergency are to be reported in the annual emissions inventory report, if the annual emissions inventory report is required by permit or authorization.

**# 022 [25 Pa. Code §135.21]****Emission statements**

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

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

(c) The Department may require more frequent submittals if the Department determines that one or more of the following applies:

(1) A more frequent submission is required by the EPA.

(2) Analysis of the data on a more frequent basis is necessary to implement the requirements of the Air Pollution Control Act.

**# 023 [25 Pa. Code §135.3]****Reporting**

(a) A person who owns or operates a source to which 25 Pa. Code Chapter 135 applies, and who has previously been

**SECTION C. Site Level Requirements**

advised by the Department to submit a source report, shall submit by March 1 of each year an Annual Air Information Management Systems (AIMS) Emissions report for the preceding calendar year. The report shall include information for all previously reported sources, new sources which were first operated during the preceding calendar year and sources modified during the same period which were not previously reported.

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

(c) A source owner or operator may request an extension of time from the Department for the filing of an Annual Air Information Management Systems (AIMS) Emissions report, and the Department may grant the extension for reasonable cause.

**VI. WORK PRACTICE REQUIREMENTS.****# 024 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

For any source specified in 25 Pa. Code Section 123.1 subsection(s) (a)(1)-(7) or (a)(9), the permittee shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads or the clearing of land.
- (2) Application of asphalt, oil, or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (3) Paving and maintenance of roadways.
- (4) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

**VII. ADDITIONAL REQUIREMENTS.****# 025 [25 Pa. Code §123.31]****Limitations**

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

**# 026 [25 Pa. Code §129.14]****Open burning operations**

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

**# 027 [25 Pa. Code §129.52]****Surface coating processes**

The VOC standards specified in 25 Pa. Code §129.52 Table I do not apply to a coating used exclusively for determining product quality and commercial acceptance, touch-up and repair and other small quantity coatings if the coating meets the following criteria:

- (1) The quantity of coating used does not exceed 50 gallons per year for a single coating and a total of 200 gallons per year for all coatings combined for the facility.
- (2) The owner or operator of the facility requests, in writing, and the Department approves, in writing, the exemption prior to use of the coating.

**SECTION C. Site Level Requirements****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.

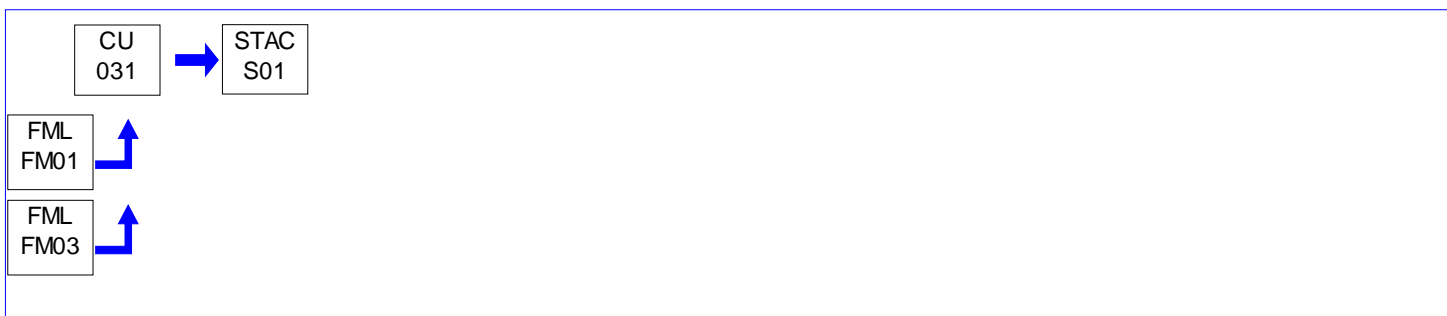
**\*\*\* Permit Shield In Effect \*\*\***

**SECTION D. Source Level Requirements**

Source ID: 031

Source Name: BOILER 1

Source Capacity/Throughput: 30.500 MMBTU/HR

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.11]****Combustion units**

Source 031 shall not emit particulate matter in excess of the rate of 0.40 pounds per million Btu of heat input.

**# 002 [25 Pa. Code §123.22]****Combustion units**

The permittee shall not permit the emission of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), into the outdoor atmosphere from Source 031 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

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

(a) Pursuant to 25 Pa. Code Sections 129.91 through 129.95, the volatile organic compound emissions from Source 031 shall not exceed 3 lbs/hour or 15 lbs/day.

(b) Pursuant to 25 Pa. Code Section 129.97(c)(2), the volatile organic compound emissions from Source 031 shall be less than 2.7 tons per year.

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

[Additional authority for this permit condition is derived from the permittee taking this elective restriction and 40 CFR Section 63.7575 for the definition of unit designed to burn gas 1 subcategory]

The permittee shall not fire Source 031 on #2 fuel oil for more than 48 hours in any 12 consecutive month period for periodic testing of liquid fuel, maintenance or operator training. The permittee may fire Source 031 on #2 fuel oil during periods of gas curtailment or gas supply interruptions of any duration.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 123.22]

The permittee shall fire only natural gas or #2 fuel oil in Source 031. The sulfur content of the #2 fuel oil fired in Source 031 shall not exceed a maximum of 0.0015% (by weight). Additionally, the permittee shall not fire in Source 031 any oil to which reclaimed or waste oil or other waste materials have been added.



**SECTION D. Source Level Requirements****II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.95]

(a) The permittee shall maintain the following records for Source 031:

- (1) VOC emissions calculations on a monthly basis to verify compliance with the annual emissions limitations
- (2) the annual tune-up, maintenance, and operating vendor guidelines to verify compliance with 25 Pa. Code Section 129.93(b)(2), (3), (4) and (5)
- (3) the number of hours Source 031 is operated per calendar year.

(b) All records generated pursuant to this permit condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall submit annual reports to the Department of the volatile organic compound emission calculations used to verify compliance with the annual emission limitation.

(b) The annual reports shall be submitted to the Department by no later than March 1 (for January 1 through December 31 of the previous year).

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

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

(a) Source 031 shall be maintained and operated in accordance with the following provisions as specified in 25 Pa. Code Sections 129.93(b)(2), (3), (4) and (5):

(1) The permittee shall comply with the annual tune-up, maintenance, and operating vendor guidelines on the subject source. The annual tune-up will include, at a minimum, the following adjustments as specified in paragraphs (i) through (iii) of 25 Pa. Code Section 129.93(b)(2):

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

(ii) Inspection of the flame pattern or characteristics and adjustments necessary to minimize total emissions of nitrogen oxides (NO<sub>x</sub>) and, to the extent practicable, minimize emissions of carbon monoxide (CO)

**SECTION D. Source Level Requirements**

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

(2) For combustion units (Source 031) subject to 25 Pa. Code Section 129.93(b)(2), the permittee shall record each adjustment conducted under the procedures in 25 Pa. Code Section 129.93(b)(2) in a permanently bound log book or other method approved by the Department. This log shall contain, at a minimum, the following information as specified in paragraphs (i) through (vi) of 25 Pa. Code Section 129.93(b)(3):

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

(3) For oil, gas and combination oil/gas units (Source 031) subject to 25 Pa. Code Section 129.93(b)(2), the fuel supplier of the type of fuel and for each shipment of distillate oils number 1 or 2, a certification that the fuel complies with ASTM D396-78 "Standard Specifications for Fuel Oils". For residual oils, minimum recordkeeping includes a certification from the fuel supplier of the nitrogen content of the fuel, and identification of the sampling method and sampling protocol.

(4) For oil and gas and combination oil/gas fired units (Source 031) subject to 25 Pa. Code Section 129.93(b)(2), the permittee shall make the annual adjustment in accordance with the EPA document "Combustion Efficiency Optimization Manual for Operators of Oil and Gas-fired Boilers", September 1983 (EPA-340/1-83-023) or equivalent procedures approved in writing by the Department.

(b) Source 031 shall also be maintained and operated in accordance with good air pollution control practices.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.97(b)(1)(i-iii)]

The permittee shall perform a biennial tune-up of Source 031 in accordance with the procedures in 40 CFR Section 63.11223 which at minimum includes:

- (a) Inspection and cleaning or replacement of fuel-burning equipment including burners and components, as necessary, for proper operation as specified by the manufacturer;
- (b) Inspection of the flame pattern and adjustment of the burner, as necessary, to optimize the flame pattern to minimize total emissions of NOx and, to the extent possible, emissions of CO;
- (c) Inspection and adjustment, as necessary, of the air-to-fuel ratio control system to ensure proper calibration and operation as specified by the manufacturer.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.97(d)]

Source ID 031 shall be operated and maintained in accordance with the manufacturer's specifications and good air pollution control practices.

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source ID 031 is a 30.5 million Btu per hour, Cleaver Brooks model #CB400-700 natural gas/No. 2 fuel oil-fired boiler.

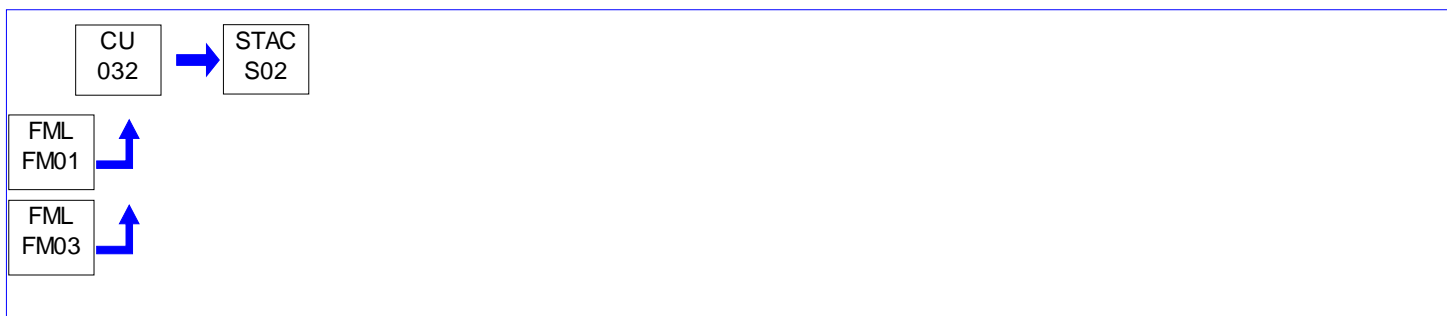
**\*\*\* Permit Shield in Effect. \*\*\***

**SECTION D. Source Level Requirements**

Source ID: 032

Source Name: BOILER 2

Source Capacity/Throughput: 30.500 MMBTU/HR

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.11]****Combustion units**

Source 032 shall not emit particulate matter in excess of the rate of 0.40 pounds per million Btu of heat input.

**# 002 [25 Pa. Code §123.22]****Combustion units**

The permittee shall not permit the emission of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), into the outdoor atmosphere from Source 032 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

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

(a) Pursuant to 25 Pa. Code Sections 129.91 through 129.95, the volatile organic compound emissions from Source 032 shall not exceed 3 lbs/hour or 15 lbs/day.

(b) Pursuant to 25 Pa. Code Section 129.97(c)(2), the volatile organic compound emissions from Source 032 shall be less than 2.7 tons per year.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 123.22]

The permittee shall fire only natural gas or #2 fuel oil in Source ID 032. The sulfur content of the #2 fuel oil fired in Source 032 shall not exceed a maximum of 0.0015% (by weight). Additionally, the permittee shall not fire in Source 032 any oil to which reclaimed or waste oil or other waste materials have been added.

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

[Additional authority for this permit condition is derived from the permittee taking this elective restriction and 40 CFR Section 63.7575 for the definition of unit designed to burn gas 1 subcategory]

The permittee shall not fire Source 032 on #2 fuel oil for more than 48 hours in any 12 consecutive month period for periodic testing of liquid fuel, maintenance or operator training. The permittee may fire Source 032 on #2 fuel oil during periods of gas curtailment or gas supply interruptions of any duration.



## SECTION D. Source Level Requirements

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

#### # 006 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.95]

(a) The permittee shall maintain the following records for Source 032:

(1) volatile organic compound (VOC) emission calculations on a monthly basis to verify compliance with the annual emissions limitations

(2) the annual tune-up, maintenance, and operating vendor guidelines to verify compliance with 25 Pa. Code Section 129.93(b)(2), (3), (4) and (5)

(3) the number of hours Source 032 is operated per calendar year

(b) All records generated pursuant to this permit condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

### V. REPORTING REQUIREMENTS.

#### # 007 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

(a) The permittee shall submit annual reports to the Department of the volatile organic compound (VOC) emission calculations used to verify compliance with the annual emission limitation.

(b) The annual reports shall be submitted to the Department by no later than March 1 (for January 1 through December 31).

### VI. WORK PRACTICE REQUIREMENTS.

#### # 008 [25 Pa. Code §127.441]

##### Operating permit terms and conditions.

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

(a) Source 032 shall be maintained and operated in accordance with the following provisions as specified in 25 Pa. Code Sections 129.93(b)(2), (3), (4) and (5):

(1) The permittee shall comply with the annual tune-up, maintenance, and operating vendor guidelines on the subject source. The annual tune-up will include, at a minimum, the following adjustments as specified in paragraphs (i) through (iii) of 25 Pa. Code Section 129.93(b)(2):

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

(ii) Inspection of the flame pattern or characteristics and adjustments necessary to minimize total emissions of nitrogen oxides (NOx) and, to the extent practicable, minimize emissions of carbon monoxide (CO)

**SECTION D. Source Level Requirements**

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

(2) For combustion units (Source 032) subject to 25 Pa. Code Section 129.93(b)(2), the permittee shall record each adjustment conducted under the procedures in 25 Pa. Code Section 129.93(b)(2) in a permanently bound log book or other method approved by the Department. This log shall contain, at a minimum, the following information as specified in paragraphs (i) through (vi) of 25 Pa. Code Section 129.93(b)(3):

- (i) The date of the tuning procedure.
- (ii) The name of the service company and technicians
- (iii) The final operating rate or load
- (iv) The final CO and NO<sub>x</sub> emission rates
- (v) The final excess oxygen rate
- (vi) Other information required by the applicable operating permit

(3) For oil, gas and combination oil/gas units (Source 032) subject to 25 Pa. Code Section 129.93(b)(2), the fuel supplier of the type of fuel and for each shipment of distillate oils number 1 or 2, a certification that the fuel complies with ASTM D396-78 "Standard Specifications for Fuel Oils". For residual oils, minimum recordkeeping includes a certification from the fuel supplier of the nitrogen content of the fuel and identification of the sampling method and sampling protocol.

(4) For oil and gas and combination oil/gas fired units (Source 032) subject to 25 Pa. Code Section 129.93(b)(2), the permittee shall make the annual adjustment in accordance with the EPA document "Combustion Efficiency Optimization Manual for Operators of Oil and Gas-fired Boilers", September 1983 (EPA-340/1-83-023) or equivalent procedures approved in writing by the Department.

(b) Source 032 shall also be maintained and operated in accordance with good air pollution control practices.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.97(b)(1)(i-iii)]

The permittee shall perform a biennial tune-up of Source 032 in accordance with the procedures in 40 CFR Section 63.11223 which at minimum includes:

- (a) Inspection and cleaning or replacement of fuel-burning equipment including burners and components, as necessary, for proper operation as specified by the manufacturer;
- (b) Inspection of the flame pattern and adjustment of the burner, as necessary, to optimize the flame pattern to minimize total emissions of NO<sub>x</sub> and, to the extent possible, emissions of CO;
- (c) Inspection and adjustment, as necessary, of the air-to-fuel ratio control system to ensure proper calibration and operation as specified by the manufacturer.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.97(d)]

Source 032 shall be operated and maintained in accordance with the manufacturer's specifications and good air pollution control practices.

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source 032 is a 30.5 million Btu per hour Cleaver Brooks model #CB400-700 natural gas/No. 2 fuel oil-fired boiler.

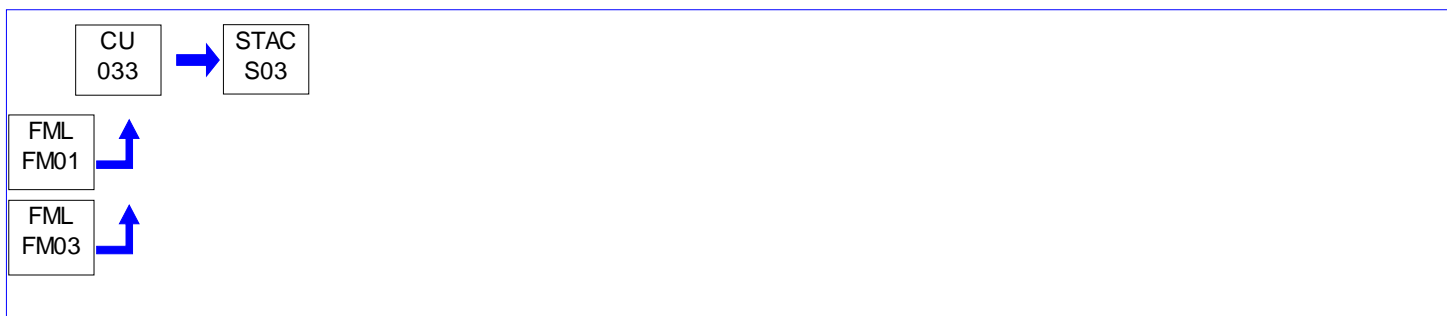
**\*\*\* Permit Shield in Effect. \*\*\***

**SECTION D. Source Level Requirements**

Source ID: 033

Source Name: BOILER 3

Source Capacity/Throughput: 30.500 MMBTU/HR

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.11]****Combustion units**

Source 033 shall not emit particulate matter in excess of the rate of 0.40 pounds per million Btu of heat input.

**# 002 [25 Pa. Code §123.22]****Combustion units**

The permittee shall not permit the emission of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), into the outdoor atmosphere from Source 033 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

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

(a) Pursuant to 25 Pa. Code Sections 129.91 through 129.95, the volatile organic compound emissions from Source 033 shall not exceed 3 lbs/hour or 15 lbs/day.

(b) Pursuant to 25 Pa. Code Section 129.97(c)(2), the volatile organic compound emissions from Source 0393 shall be less than 2.7 tons per year.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 123.22]

The permittee shall fire only natural gas or #2 fuel oil in Source ID 033. The sulfur content of the #2 fuel oil fired in Source 033 shall not exceed a maximum of 0.0015% (by weight). Additionally, the permittee shall not fire in Source 033 any oil to which reclaimed or waste oil or other waste materials have been added.

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

[Additional authority for this permit condition is derived from the permittee taking this elective restriction and 40 CFR Section 63.7575 for the definition of unit designed to burn gas 1 subcategory]

The permittee shall not fire Source 033 on #2 fuel oil for more than 48 hours in any 12 consecutive month period for periodic testing of liquid fuel, maintenance or operator training. The permittee may fire Source 033 on #2 fuel oil during periods of gas curtailment or gas supply interruptions of any duration.



**SECTION D. Source Level Requirements****II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.95]

(a) The permittee shall maintain the following records for Source 033:

- (1) VOC emissions calculations on a monthly basis to verify compliance with the annual emissions limitations
- (2) the annual tune-up, maintenance, and operating vendor guidelines to verify compliance with 25 Pa. Code Section 129.93(b)(2), (3), (4) and (5)
- (3) the number of hours Source 033 is operated per calendar year.

(b) All records generated pursuant to this permit condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall submit annual reports to the Department of the volatile organic compound (VOC) emission calculations used to verify compliance with the annual emission limitation

(f) The annual reports shall be submitted to the Department by no later than March 1 (for January 1 through December 31 of the previous year).

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

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

(a) Source 033 shall be maintained and operated in accordance with the following provisions as specified in 25 Pa. Code Sections 129.93(b)(2), (3), (4) and (5):

(1) The permittee shall comply with the annual tune-up, maintenance, and operating vendor guidelines on the subject source. The annual tune-up will include, at a minimum, the following adjustments as specified in paragraphs (i) through (iii) of 25 Pa. Code Section 129.93(b)(2):

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

(ii) Inspection of the flame pattern or characteristics and adjustments necessary to minimize total emissions of nitrogen oxides (NO<sub>x</sub>) and, to the extent practicable, minimize emissions of carbon monoxide (CO)

**SECTION D. Source Level Requirements**

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

(2) For combustion units (Source 033) subject to 25 Pa. Code Section 129.93(b)(2), the permittee shall record each adjustment conducted under the procedures in 25 Pa. Code Section 129.93(b)(2) in a permanently bound log book or other method approved by the Department. This log shall contain, at a minimum, the following information as specified in paragraphs (i) through (vi) of 25 Pa. Code Section 129.93(b)(3):

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

(3) For oil, gas and combination oil/gas units (Source 033) subject to 25 Pa. Code Section 129.93(b)(2), the fuel supplier of the type of fuel and for each shipment of distillate oils number 1 or 2, a certification that the fuel complies with ASTM D396-78 "Standard Specifications for Fuel Oils". For residual oils, minimum recordkeeping includes a certification from the fuel supplier of the nitrogen content of the fuel, and identification of the sampling method and sampling protocol.

(4) For oil and gas and combination oil/gas fired units (Source 033) subject to 25 Pa. Code Section 129.93(b)(2), the permittee shall make the annual adjustment in accordance with the EPA document "Combustion Efficiency Optimization Manual for Operators of Oil and Gas-fired Boilers", September 1983 (EPA-340/1-83-023) or equivalent procedures approved in writing by the Department.

(b) Source 033 shall also be maintained and operated in accordance with good air pollution control practices.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.97(b)(1)(i-iii)]

The permittee shall perform a biennial tune-up of Source 033 in accordance with the procedures in 40 CFR Section 63.11223 which at minimum includes:

- (a) Inspection and cleaning or replacement of fuel-burning equipment including burners and components, as necessary, for proper operation as specified by the manufacturer;
- (b) Inspection of the flame pattern and adjustment of the burner, as necessary, to optimize the flame pattern to minimize total emissions of NOx and, to the extent possible, emissions of CO;
- (c) Inspection and adjustment, as necessary, of the air-to-fuel ratio control system to ensure proper calibration and operation as specified by the manufacturer.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.97(d)]

Source 033 shall be operated and maintained in accordance with the manufacturer's specifications and good air pollution control practices.

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source 033 is a 30.5 million Btu per hour, Cleaver Brooks model #CB400-700 natural gas/No. 2 fuel oil-fired boiler.

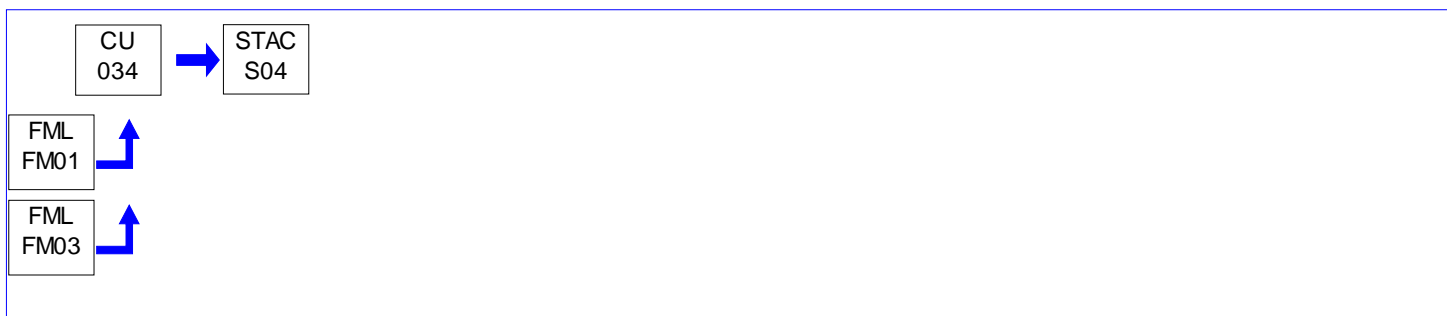
**\*\*\* Permit Shield in Effect. \*\*\***

**SECTION D. Source Level Requirements**

Source ID: 034

Source Name: BOILER 4

Source Capacity/Throughput: 33.500 MMBTU/HR

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.11]****Combustion units**

Source 034 shall not emit particulate matter in excess of the rate of 0.40 pounds per million Btu of heat input.

**# 002 [25 Pa. Code §123.22]****Combustion units**

The permittee shall not permit the emission of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), into the outdoor atmosphere from Source 034 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

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

(a) Pursuant to 25 Pa. Code Sections 129.91 through 129.95, the volatile organic compound emissions from Source 034 shall not exceed 3 lbs/hour or 15 lbs/day.

(b) Pursuant to 25 Pa. Code Section 129.97(c)(2), the volatile organic compound emissions from Source 034 shall be less than 2.7 tons per year.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 123.22]

The permittee shall fire only natural gas or #2 fuel oil in Source 034. The sulfur content of the #2 fuel oil fired in Source 034 shall not exceed a maximum of 0.0015% (by weight). Additionally, the permittee shall not fire in Source 034 any oil to which reclaimed or waste oil or other waste materials have been added.

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

[Additional authority for this permit condition is derived from the permittee taking this elective restriction and 40 CFR Section 63.7575 for the definition of unit designed to burn gas 1 subcategory]

The permittee shall not fire Source 034 on #2 fuel oil for more than 48 hours in any 12 consecutive month period for periodic testing of liquid fuel, maintenance or operator training. The permittee may fire Source 034 on #2 fuel oil during periods of gas curtailment or gas supply interruptions of any duration.

**SECTION D. Source Level Requirements****II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.95]

(a) The permittee shall maintain the following records for Source 034:

- (1) VOC emissions calculations on a monthly basis to verify compliance with the annual emissions limitations
- (2) the annual tune-up, maintenance, and vendor guidelines to verify compliance with 25 Pa. Code Section 129.93(b)(2), (3), (4) and (5)
- (3) the number of hours Source 034 is operated per calendar year

(b) All records generated pursuant to this permit condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall submit annual reports to the Department of the following of the volatile organic compound (VOC) emission calculations used to verify compliance with the annual emission limitation

(f) The annual reports shall be submitted to the Department by no later than March 1 (for January 1 through December 31 of the previous year).

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.97(d)]

Source 034 shall be operated and maintained in accordance with the manufacturer's specifications and good air pollution control practices.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.97(b)(1)(i-iii)]

The permittee shall perform a biennial tune-up of Source 034 in accordance with the procedures in 40 CFR Section 63.11223 which at minimum includes:

- (a) Inspection and cleaning or replacement of fuel-burning equipment including burners and components, as necessary, for proper operation as specified by the manufacturer;

**SECTION D. Source Level Requirements**

(b) Inspection of the flame pattern and adjustment of the burner, as necessary, to optimize the flame pattern to minimize total emissions of NO<sub>x</sub> and, to the extent possible, emissions of CO;

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

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

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

(a) Source 034 shall be maintained and operated in accordance with the following provisions as specified in 25 Pa. Code Sections 129.93(b)(2), (3), (4) and (5):

(1) The permittee shall comply with the annual tune-up, maintenance, and operating vendor guidelines on the subject source. The annual tune-up will include, at a minimum, the following adjustments as specified in paragraphs (i) through (iii) of 25 Pa. Code Section 129.93(b)(2):

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

(ii) Inspection of the flame pattern or characteristics and adjustments necessary to minimize total emissions of nitrogen oxides (NO<sub>x</sub>) and, to the extent practicable, minimize emissions of carbon monoxide (CO)

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

(2) For combustion units (Source 034) subject to 25 Pa. Code Section 129.93(b)(2), the permittee shall record each adjustment conducted under the procedures in 25 Pa. Code Section 129.93(b)(2) in a permanently bound log book or other method approved by the Department. This log shall contain, at a minimum, the following information as specified in paragraphs (i) through (vi) of 25 Pa. Code Section 129.93(b)(3):

(i) The date of the tuning procedure.

(ii) The name of the service company and technicians.

(iii) The final operating rate or load.

(iv) The final CO and NO<sub>x</sub> emission rates.

(v) The final excess oxygen rate.

(vi) Other information required by the applicable operating permit.

(3) For oil, gas and combination oil/gas units (Source 034) subject to 25 Pa. Code Section 129.93(b)(2), the fuel supplier of the type of fuel and for each shipment of distillate oils number 1 or 2, a certification that the fuel complies with ASTM D396-78 "Standard Specifications for Fuel Oils". For residual oils, minimum recordkeeping includes a certification from the fuel supplier of the nitrogen content of the fuel, and identification of the sampling method and sampling protocol.

(4) For oil and gas and combination oil/gas fired units (Source 034) subject to 25 Pa. Code Section 129.93(b)(2), the permittee shall make the annual adjustment in accordance with the EPA document "Combustion Efficiency Optimization Manual for Operators of Oil and Gas-fired Boilers", September 1983 (EPA-340/1-83-023) or equivalent procedures approved in writing by the Department.

(b) Source 034 shall also be maintained and operated in accordance with good air pollution control practices.

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source 034 is a 33.5 million Btu per hour, Cleaver Brooks model #CB400-800 natural gas/No. 2 fuel oil-fired boiler.

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

**SECTION D. Source Level Requirements**

Source ID: 035

Source Name: THERMAL FLUID HEATER (#11 COATER)

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

(a) The concentration of nitrogen oxides, expressed as nitrogen dioxide (NO<sub>2</sub>), in the effluent gases of Source 035 shall not exceed 30 parts per million, by volume, dry basis, corrected to 3% oxygen.

(b) The concentration of carbon monoxide in the effluent gases of Source 035 shall not exceed 200 parts per million, by volume, dry basis, corrected to 3% oxygen.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

{Compliance with this permit condition assures compliance with the provision of 25 Pa. Code Section 123.41}

The visible air contaminant emissions from Source 035 shall not equal or exceed 10% opacity.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source 035 shall be fired on natural gas only.

**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.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source 035 shall be equipped with instrumentation to monitor and record the amount of natural gas fired.

**IV. RECORDKEEPING REQUIREMENTS.****# 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]****Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**



**SECTION D. Source Level Requirements**

(a) The permittee shall maintain accurate and comprehensive records of the amount of natural gas fired in Source 035 on a daily basis.

(b) All records generated pursuant to this permit condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

**# 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]**

**Subpart A - General Provisions**

**Address.**

The submission of all requests, reports, applications, submittals and other communications required by Subpart Dc of the federal Standard of Performance for New Stationary Sources, 40 CFR 60.40c through 60.48c, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The Environmental Protection Agency copies may be sent to:

R3\_Air\_Apps\_and\_Notices@epa.gov

and

The Pennsylvania Department of Environmental Protection  
Air Quality Program Manager  
208 W. Third Street, Suite 101  
Williamsport, PA 17701-6448

**VI. WORK PRACTICE REQUIREMENTS.**

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.97(d)]

Source 035 shall be operated and maintained in accordance with the manufacturer's specifications and good air pollution control practices.

**VII. ADDITIONAL REQUIREMENTS.**

**# 008 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source 035 is a 15 million Btu per hour Megtec natural gas-fired thermal fluid heater which shall be equipped with a low nitrogen oxides burner. Source 035 will supply process heat to the #11 Coater incorporated in Source P159.

**# 009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.40c]**

**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units**

**Applicability and delegation of authority.**

Source 035 is subject to the requirements of 40 CFR Part 60 Subpart Dc Sections 60.40c through 60.48c. The permittee shall comply with all applicable requirements of 40 CFR Sections 60.40c through 60.48c.

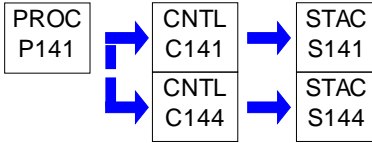
**\*\*\* Permit Shield in Effect. \*\*\***

**SECTION D. Source Level Requirements**

Source ID: P141

Source Name: COATING OPERATIONS

Source Capacity/Throughput:

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

The concentration of particulate matter in the exhaust of Control Device C141 associated with Source P141 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

**# 002 [25 Pa. Code §123.21]****General**

The concentration of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), in the exhaust from Control Device C141 associated with Source P141 shall not exceed 500 parts per million, by volume, dry basis.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.52]

The coatings containing halogenated solvents used in Source P141 shall comply with all applicable requirements as specified in 25 Pa. Code Section 129.52.

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

The volatile organic compound emissions from Coater #10 incorporated in Source P141 shall not exceed 2.0 tons in any 12 consecutive month period.

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

The combined volatile organic compound emissions from Coater TR-5 incorporated in Source P143 and the associated solutions prep/solvent area B-56 of Source P141 shall not equal or exceed 40 tons in any 12 consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.91 through 129.95]

The potential to emit volatile organic compounds from the following source category shall not exceed 3 pounds per hour, 15 pounds per day or 2.7 tons in any 12 consecutive month period. Should any of these limitations ever be exceeded for the source category listed below, a detailed RACT analysis which meets the criteria specified in 25 Pa. Code Section 129.92 must be submitted to the Department for the Thermocat catalytic oxidizer (Control Device C143) and regenerative thermal oxidizer RTO #1 (Control Device C141). The exemption provided in this condition has applicability only to the volatile organic compounds created as a result of natural gas combustion in the respective oxidizers. Any undestroyed volatile organic compounds originating from the sources controlled by the respective oxidizers are not to be considered in the context of this condition.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.97(c)(2)]

The total combined volatile organic compound emissions directed to atmosphere from the B56 Solution Prep Area while Coater #10 is not operational shall not equal or exceed 2.70 tons in any 12 consecutive month period.

**SECTION D. Source Level Requirements**

**# 008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3320]**  
**Subpart JJJJ - National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating**  
**What emission standards must I meet?**

The exhaust from Control Device C141 shall not have an organic HAP concentration of no greater than 20 parts per million by volume (ppmv) on a dry basis is achieved and the efficiency of the capture system is 100 percent.

**Fuel Restriction(s).**

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

Control Device C141 shall be fired only on natural gas.

**Control Device Efficiency Restriction(s).**

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device C141 shall achieve an overall volatile organic compound reduction (combined capture and destruction) efficiency of at least 97% at all times.

**II. TESTING REQUIREMENTS.**

**# 011 [25 Pa. Code §129.52]**  
**Surface coating processes**

The permittee shall calculate the VOC content of the as applied coatings used in Source P141, expressed in units of weight of VOC per volume of coating solids, as follows:

$$\text{VOC} = (\text{Wo})(\text{Dc})/\text{Vn}$$

where,

VOC = VOC content in lb VOC/gal of coating solids

Wo = Weight percent of VOC (Wv-Ww-Wex)

Wv = Weight percent of total volatiles (100%-weight percent of solids)

Ww = Weight percent of water

Wex = Weight percent of exempt solvent(s)

Dc = Density of coating, lb/gal, at 25°C

Vn = Volume percent of solids of the as applied coating

**III. MONITORING REQUIREMENTS.**

**# 012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3350]**  
**Subpart JJJJ - National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating**  
**If I use a control device to comply with the emission standards, what monitoring must I do?**

The permittee shall install, maintain, and operate temperature monitoring equipment according to the manufacturer's specifications.

(a) For an oxidizer other than a catalytic oxidizer, install, operate, and maintain a temperature monitoring device equipped with a continuous recorder. The device must be capable of monitoring temperature with an accuracy of  $\pm 1$  percent of the

**SECTION D. Source Level Requirements**

temperature being monitored in degrees Fahrenheit or  $\pm 1.8$  degrees Fahrenheit, whichever is greater. The temperature sensor must be installed in the combustion chamber at a location in the combustion zone.

(b) For temperature sensors, you must develop a quality control program that must contain, at a minimum, a written protocol that describes the procedures for verifying that the temperature sensor is operating properly using at least one of the methods in paragraph (e)(10)(iv)(A), (B), (C), (D), (E), or (F) of this section. The owner or operator shall keep these written procedures on record for the life of the affected source or until the affected source is no longer subject to the provisions of this part, to be made available for inspection, upon request, by the Administrator:

(A) Semiannually, compare measured readings to a National Institute of Standards and Technology (NIST) traceable temperature measurement device or simulate a typical operating temperature using a NIST traceable temperature simulation device. When the temperature measurement device method is used, the sensor of the calibrated device must be placed as close as practicable to the process sensor, and both devices must be subjected to the same environmental conditions. The accuracy of the temperature measured must be 2.5 percent of the temperature measured by the NIST traceable device or 5 degrees Fahrenheit whichever is greater.

(B) Annually validate the temperature sensor by following applicable mechanical and electrical validation procedures in the manufacturer owner's manual.

(C) Annually request the temperature sensor manufacturer to certify or re-certify electromotive force (electrical properties) of the thermocouple.

(D) Annually replace the temperature sensor with a new certified temperature sensor in lieu of validation.

(E) Permanently install a redundant temperature sensor as close as practicable to the process temperature sensor. The sensors must yield a reading within 2.5 percent of each other for thermal oxidizers and catalytic oxidizers.

(F) Permanently install a temperature sensor with dual sensors to account for the possibility of failure.

(c) Conduct the validation checks in paragraph (e)(10)(iv)(A), (B), or (C) of this section any time the temperature sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor.

(d) At least quarterly, inspect temperature sensor components for proper connection and integrity or continuously operate an electronic monitoring system designed to notify personnel if the signal from the temperature sensor is interrupted.

**IV. RECORDKEEPING REQUIREMENTS.**

**# 013 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.95]

(a) The permittee shall maintain records of the following operating parameters for Source P141:

- (1) Calculations used to verify compliance with the annual VOC emission limitation for Coater #10
- (2) Calculations used to verify compliance with the annual VOC emission limitation for the B-56 solutions preparation area and Coater TR-5 (Coater TR-5 incorporated in Source P143)
- (3) Calculations used to verify compliance with the annual VOC emission limitation created as a result of natural gas combustion for Control Devices C141 and C143 associated with Source IDs P141 and P143, respectively.
- (4) The total quantity of natural gas used in Control Devices C141 and C143 combined on a monthly basis
- (5) Supporting calculations used to verify compliance with the overall VOC control efficiency requirement for Control Device C141

**SECTION D. Source Level Requirements**

(b) All records generated pursuant to this permit condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**# 014 [25 Pa. Code §129.52]****Surface coating processes**

(a) The permittee shall maintain for Source P141 daily records of:

(1) The following parameters for each coating, thinner and other component as supplied:

- (i) The coating, thinner or component name and identification number.
- (ii) The volume used.
- (iii) The mix ratio.
- (iv) The density or specific gravity.
- (v) The weight percent of total volatiles, water, solids and exempt solvents.
- (vi) The volume percent of solids.

(2) The VOC content of each coating, thinner and other component as supplied.

(3) The VOC content of each as applied coating.

(b) All records generated pursuant to this permit condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.****# 015 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.91 through 129.95]

(a) The permittee shall submit semi-annual reports to the Department of the calculations used to verify compliance with the annual VOC limitation for Coater #10 incorporated in Source P141.

(b) The semi-annual reports shall be submitted to the Department by no later than March 1 (for January 1 through December 31 of the previous year) and September 1 (for July 1 of the previous year through June 30 of the concurrent year).

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

(a) The permittee shall submit annual reports to the Department of the supporting calculations used to verify compliance with the annual volatile organic compound (VOC) emission limitation created as a result of natural gas combustion for Control Devices C141 and C143 (incorporated in Source P143) and C150 (of Source P150).

(b) The annual report shall be submitted to the Department by March 1 (for January 1 through December 31 of the previous year).

**# 017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.13]****Subpart A--General Provisions****Addresses of State air pollution control agencies and EPA Regional Offices.**

The submission of all requests, reports, applications, submittals and other communications required by Subpart JJJJ of the federal National Emission Standards for Hazardous Air Pollutants, 40 CFR 63.3280 through 63.3420, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The Environmental Protection Agency copies may be sent to:

R3\_Air\_Apps\_and\_Notices@epa.gov

and

**SECTION D. Source Level Requirements**

The Pennsylvania Department of Environmental Protection  
Air Quality Program Manager  
208 W. Third Street, Suite 101  
Williamsport, PA 17701-6448

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

The permittee shall not duct the emissions from any coating operation incorporated in Source P141 to the fume incinerator when the coater is being used to apply coatings containing methylene chloride, 1,1,1 trichloroethane or any other halogenated solvent.

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

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

Control Device C141 shall be maintained and operated in accordance with the manufacturer's specifications and good air pollution control practices.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.91 through 129.95 and 129.97(c)(2)]

(a) Source P141 consists of the following operations:

- (1) Hirano Tecseed Co., Ltd. continuous web coater (Coater #10)
- (2) Solutions prep/solvent area B-56 (associated with polyester film coater TR-5)

(b) The volatile organic compound emissions from all operations of Source P141 shall be controlled by a natural gas-fired Regenerative Environmental Equipment Co. (REECO) model RE-THERM VFC regenerative thermal oxidizer (Control Device C141). Control Device C141 is identified as RTO #1, and is equipped with two (2) 2.6 MMBTU per hour burners.

(c) The permittee is authorized to emit the air contaminant emissions from the B56 Solution Prep Area directly to atmosphere and shut down Control Device C141 while the Coater #10 line is not operational. Once the Coater #10 line is operational, the permittee shall control the air contaminant emissions from both the Coater #10 line and the B56 Solutions Prep Area with Control Device C141

**# 021 [25 Pa. Code §129.52]****Surface coating processes**

Source P141 is subject to the requirements of 25 Pa. Code Section 129.52. The permittee shall comply with all applicable requirements of 25 Pa. Code Section 129.52.

**# 022 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3290]****Subpart JJJJ - National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating****Does this subpart apply to me?**

Source P141 is subject to the requirements of 40 CFR Part 63 Subpart JJJJ Sections 63.3280 through 63.3420 of the National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating. The permittee shall comply with all applicable requirements of 40 CFR Section 63.3280 through 63.3420.

**# 023 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3350]****Subpart JJJJ - National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating****If I use a control device to comply with the emission standards, what monitoring must I do?**

The average combustion temperature in any 3-hour period of Control Device C141 must not fall more than 50 °F below the

**SECTION D. Source Level Requirements**

combustion temperature limit established according to 40 CFR Part 63 Section 63.3360(e)(3)(i).

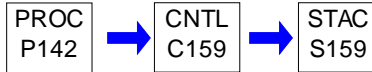
**\*\*\* Permit Shield in Effect. \*\*\***

**SECTION D. Source Level Requirements**

Source ID: P142

Source Name: COATER #9

Source Capacity/Throughput:

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

<p><b># 001 [25 Pa. Code §123.13]</b>  <b>Processes</b></p> <p>The concentration of particulate matter in the exhaust of Control Device C159 associated with Source P142 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.</p>
<p><b># 002 [25 Pa. Code §123.21]</b>  <b>General</b></p> <p>The concentration of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), in the exhaust of Control Device C159 associated with Source P142 shall not exceed 500 parts per million, by volume, dry basis.</p>
<p><b># 003 [25 Pa. Code §127.441]</b>  <b>Operating permit terms and conditions.</b></p> <p>[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]</p> <p>Source P142 shall be equipped with fail safe switches or interlocks which shall shut down the respective source if the inlet exhaust gas flow rate to Control Device C159 is in excess of 66,500 SCFM.</p>
<p><b># 004 [25 Pa. Code §127.441]</b>  <b>Operating permit terms and conditions.</b></p> <p>The total combined volatile organic compound emissions from Source P142 shall not exceed 12.71 tons in any 12 consecutive month period.</p>
<p><b># 005 [25 Pa. Code §127.441]</b>  <b>Operating permit terms and conditions.</b></p> <p>The acetone emissions from Source P142 shall not exceed 12.16 tons in any 12 consecutive month period.</p>
<p><b># 006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3320]</b>  <b>Subpart JJJJ - National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating</b>  <b>What emission standards must I meet?</b></p> <p>The exhaust from Control Device C159 shall not have an organic HAP concentration of no greater than 20 parts per million by volume (ppmv) on a dry basis is achieved and the efficiency of the capture system is 100 percent.</p>

**Control Device Efficiency Restriction(s).**

<p><b># 007 [25 Pa. Code §127.441]</b>  <b>Operating permit terms and conditions.</b></p> <p>[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]</p> <p>The capture efficiency of the volatile organic compound capture system associated with Source P142 shall be 100%. All volatile organic compounds captured shall be ducted to Control Device C159. The volatile organic compound destruction efficiency of Control Device C159 shall be equal to, or greater than, 98% at all times.</p>
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**II. TESTING REQUIREMENTS.**

<p><b># 008 [25 Pa. Code §129.52]</b>  <b>Surface coating processes</b></p> <p>The permittee shall calculate the VOC content of the as applied coatings used in Source P142, expressed in units of weight</p>
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**SECTION D. Source Level Requirements**

of VOC per volume of coating solids, as follows:

$$\text{VOC} = (\text{Wo})(\text{Dc})/\text{Vn}$$

where,

VOC = VOC content in lb VOC/gal of coating solids

Wo = Weight percent of VOC (Wv-Ww-Wex)

Wv = Weight percent of total volatiles (100%-weight percent of solids)

Ww = Weight percent of water

Wex = Weight percent of exempt solvent(s)

Dc = Density of coating, lb/gal, at 25°C

Vn = Volume percent of solids of the as applied coating

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P142 shall be equipped with instrumentation to monitor the exhaust gas on a continuous basis as well as interlocks to prevent the operation of Source P142 if the total combined exhaust gas flow rate to Control Device C159 exceeds 66,500 SCFM.

**# 010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3350]****Subpart JJJJ - National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating****If I use a control device to comply with the emission standards, what monitoring must I do?**

The permittee shall install, maintain, and operate temperature monitoring equipment according to the manufacturer's specifications.

(a) For an oxidizer other than a catalytic oxidizer, install, operate, and maintain a temperature monitoring device equipped with a continuous recorder. The device must be capable of monitoring temperature with an accuracy of  $\pm 1$  percent of the temperature being monitored in degrees Fahrenheit or  $\pm 1.8$  degrees Fahrenheit, whichever is greater. The temperature sensor must be installed in the combustion chamber at a location in the combustion zone.

(b) For temperature sensors, you must develop a quality control program that must contain, at a minimum, a written protocol that describes the procedures for verifying that the temperature sensor is operating properly using at least one of the methods in paragraph (e)(10)(iv)(A), (B), (C), (D), (E), or (F) of this section. The owner or operator shall keep these written procedures on record for the life of the affected source or until the affected source is no longer subject to the provisions of this part, to be made available for inspection, upon request, by the Administrator:

(A) Semiannually, compare measured readings to a National Institute of Standards and Technology (NIST) traceable temperature measurement device or simulate a typical operating temperature using a NIST traceable temperature simulation device. When the temperature measurement device method is used, the sensor of the calibrated device must be placed as close as practicable to the process sensor, and both devices must be subjected to the same environmental conditions. The accuracy of the temperature measured must be 2.5 percent of the temperature measured by the NIST traceable device or 5 degrees Fahrenheit whichever is greater.

(B) Annually validate the temperature sensor by following applicable mechanical and electrical validation procedures in the manufacturer owner's manual.

**SECTION D. Source Level Requirements**

(C) Annually request the temperature sensor manufacturer to certify or re-certify electromotive force (electrical properties) of the thermocouple.

(D) Annually replace the temperature sensor with a new certified temperature sensor in lieu of validation.

(E) Permanently install a redundant temperature sensor as close as practicable to the process temperature sensor. The sensors must yield a reading within 2.5 percent of each other for thermal oxidizers and catalytic oxidizers.

(F) Permanently install a temperature sensor with dual sensors to account for the possibility of failure.

(c) Conduct the validation checks in paragraph (e)(10)(iv)(A), (B), or (C) of this section any time the temperature sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor.

(d) At least quarterly, inspect temperature sensor components for proper connection and integrity or continuously operate an electronic monitoring system designed to notify personnel if the signal from the temperature sensor is interrupted.

**IV. RECORDKEEPING REQUIREMENTS.**

**# 011 [25 Pa. Code §129.52]**

**Surface coating processes**

[Compliance with the requirement specified in this streamlined permit condition assures compliance with the provision in 40 CFR Part 52 §52.2020(c)(1)]

(a) The permittee shall maintain for Source P142 daily records of:

(1) The following parameters for each coating, thinner and other component as supplied:

- (i) The coating, thinner or component name and identification number.
- (ii) The volume used.
- (iii) The mix ratio.
- (iv) The density or specific gravity.
- (v) The weight percent of total volatiles, water, solids and exempt solvents.
- (vi) The volume percent of solids.

(2) The VOC content of each coating, thinner and other component as supplied.

(3) The VOC content of each as applied coating.

(b) All records generated pursuant to this permit condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

**# 012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.13]**

**Subpart A--General Provisions****Addresses of State air pollution control agencies and EPA Regional Offices.**

The submission of all requests, reports, applications, submittals and other communications required by Subpart JJJJ of the federal National Emission Standards for Hazardous Air Pollutants, 40 CFR 63.3280 through 63.3420, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The Environmental Protection Agency copies may be sent to:

R3\_Air\_Apps\_and\_Notices@epa.gov

and

The Pennsylvania Department of Environmental Protection

**SECTION D. Source Level Requirements**

Air Quality Program Manager  
208 W. Third Street, Suite 101  
Williamsport, PA 17701-6448

**VI. WORK PRACTICE REQUIREMENTS.**

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

**VII. ADDITIONAL REQUIREMENTS.****# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

(a) Source P142 is a Bachofen & Meier film coater (Coater #9)

(b) Control Device C159 is a 9.6 million Btu per hour, Dürr model RL rotary valve, natural gas-fired regenerative thermal oxidizer (RTO).

(c) The air contaminant emissions from Source P142 shall be controlled by Control Device C159 at all times.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P142 shall not be operated, at any time, without the simultaneous operation of Control Device C159.

**# 015 [25 Pa. Code §129.52]****Surface coating processes**

Source ID P142 is subject to the requirements of 25 Pa. Code Section 129.52. The permittee shall comply with all applicable requirements of 25 Pa. Code Section 129.52.

**# 016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3290]****Subpart JJJJ - National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating****Does this subpart apply to me?**

Source P142 is subject to the requirements of 40 CFR Part 63 Subpart JJJJ Sections 63.3280 through 63.3420 of the National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating. The permittee shall comply with all applicable requirements of 40 CFR Section 63.3280 through 63.3420.

**# 017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3350]****Subpart JJJJ - National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating****If I use a control device to comply with the emission standards, what monitoring must I do?**

The average combustion temperature in any 3-hour period of Control Device C142 must not fall more than 50 °F below the combustion temperature limit established according to 40 CFR Part 63 Section 63.3360(e)(3)(i).

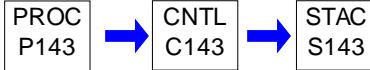
\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: P143

Source Name: TR-5 COATING LINE

Source Capacity/Throughput:

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

The concentration of particulate matter in the exhaust of Control Device C143 associated with Source P143 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

**# 002 [25 Pa. Code §123.21]****General**

The concentration of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), in the exhaust from Control Device C143 associated with Source P143 shall not exceed 500 parts per million, by volume, dry basis.

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

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

The potential to emit volatile organic compounds from the following source category shall never exceed 3 pounds per hour, 15 pounds per day or 2.7 tons in any 12 consecutive month period (as determined by the Department). Should any of these limitations ever be exceeded for the source category listed below, a detailed RACT analysis which meets the criteria specified in 25 Pa. Code Section 129.92 must be submitted to the Department for the Thermocat catalytic oxidizer (Control Device C143) and the regenerative thermal oxidizer RTO #1 (Control Device C141). The exemption provided in this condition has applicability only to the volatile organic compounds created as a result of natural gas combustion in the respective oxidizers. Any undestroyed volatile organic compounds originating from the sources controlled by the respective oxidizers are not to be considered in the context of this condition.

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

The combined volatile organic compound emissions from the Control Device C143 associated with Source P143 and the associated TR-5 solutions preparation area B-56 (included in Source P141) shall not equal or exceed 40 tons in any 12 consecutive month period.

**# 005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3290]****Subpart JJJJ - National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating****Does this subpart apply to me?**

Source P143 is subject to the requirements of 40 CFR Part 63 Subpart JJJJ Sections 63.3280 through 63.3420 of the National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating. The permittee shall comply with all applicable requirements of 40 CFR Section 63.3280 through 63.3420.

**Fuel Restriction(s).****# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Control Device C143 associated with Source P143 shall be fired only on natural gas.

**Control Device Efficiency Restriction(s).****# 007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3320]****Subpart JJJJ - National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating****What emission standards must I meet?**

The average temperature at the inlet to the catalyst bed of Control Device C143 in any 3-hour period must not fall more than

**SECTION D. Source Level Requirements**

50 degrees Fahrenheit below the combustion temperature limit established according to 40 CFR Section 63.3360(e)(3)(ii).

**II. TESTING REQUIREMENTS.****# 008 [25 Pa. Code §129.52]****Surface coating processes**

The permittee shall calculate the VOC content of the as applied coatings used in Source P143, expressed in units of weight of VOC per volume of coating solids, as follows:

$$\text{VOC} = (\text{Wo})(\text{Dc})/\text{Vn}$$

where,

VOC = VOC content in lb VOC/gal of coating solids

Wo = Weight percent of VOC (Wv-Ww-Wex)

Wv = Weight percent of total volatiles (100%-weight percent of solids)

Ww = Weight percent of water

Wex = Weight percent of exempt solvent(s)

Dc = Density of coating, lb/gal, at 25°C

Vn = Volume percent of solids of the as applied coating

**III. MONITORING REQUIREMENTS.****# 009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3350]****Subpart JJJJ - National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating**  
**If I use a control device to comply with the emission standards, what monitoring must I do?**

The permittee shall install, operate, and maintain a temperature monitoring device equipped with a continuous recorder. The device must be capable of monitoring temperature with an accuracy of  $\pm 1$  percent of the temperature being monitored in degrees Fahrenheit or  $\pm 1.8$  degrees Fahrenheit, whichever is greater. The temperature sensor must be installed in the vent stream at the nearest feasible point to the inlet and outlet of the catalyst bed. Calculate the temperature rise across the catalyst.

(a) For temperature sensors, you must develop a quality control program that must contain, at a minimum, a written protocol that describes the procedures for verifying that the temperature sensor is operating properly using at least one of the methods in paragraph (e)(10)(iv)(A), (B), (C), (D), (E), or (F) of this section. The owner or operator shall keep these written procedures on record for the life of the affected source or until the affected source is no longer subject to the provisions of this part, to be made available for inspection, upon request, by the Administrator:

(A) Semiannually, compare measured readings to a National Institute of Standards and Technology (NIST) traceable temperature measurement device or simulate a typical operating temperature using a NIST traceable temperature simulation device. When the temperature measurement device method is used, the sensor of the calibrated device must be placed as close as practicable to the process sensor, and both devices must be subjected to the same environmental conditions. The accuracy of the temperature measured must be 2.5 percent of the temperature measured by the NIST traceable device or 5 degrees Fahrenheit whichever is greater.

(B) Annually validate the temperature sensor by following applicable mechanical and electrical validation procedures in the manufacturer owner's manual.

**SECTION D. Source Level Requirements**

(C) Annually request the temperature sensor manufacturer to certify or re-certify electromotive force (electrical properties) of the thermocouple.

(D) Annually replace the temperature sensor with a new certified temperature sensor in lieu of validation.

(E) Permanently install a redundant temperature sensor as close as practicable to the process temperature sensor. The sensors must yield a reading within 2.5 percent of each other for thermal oxidizers and catalytic oxidizers.

(F) Permanently install a temperature sensor with dual sensors to account for the possibility of failure.

(b) Conduct the validation checks in paragraph (e)(10)(iv)(A), (B), or (C) of this section any time the temperature sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor.

(c) At least quarterly, inspect temperature sensor components for proper connection and integrity or continuously operate an electronic monitoring system designed to notify personnel if the signal from the temperature sensor is interrupted.

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

[Additional authority for this permit condition is derived from 25 Pa. Code sections 129.95]

(a) The permittee shall maintain accurate and comprehensive records of the following of Control Device C143:

(1) The catalyst bed temperature

(2) oxidizer inlet chamber pressure

(b) All records generated pursuant to this condition shall be retained for a minimum of five (5) years and 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 derived from 25 Pa. Code Section 129.95]

(a) The permittee shall maintain records of the following operating parameters for Source P143:

(1) volatile organic compound emission calculations on a monthly basis to verify compliance with the annual emission limitation.

(2) emissions calculations to verify compliance with the annual VOC emission limitation created as a result of natural gas combustion for Control Devices C143 and C141 associated with Source P141.

(3) The total quantity of natural gas used in Control Devices C141 and C143 combined on a monthly basis

(4) Supporting calculations used to verify compliance with the overall VOC control efficiency requirement for Control Device C143

(b) All records generated pursuant to this permit condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

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

The permittee shall keep record of the thermal oxidation temperature of any volatile organic compound used in Source P143.

**SECTION D. Source Level Requirements****# 013 [25 Pa. Code §129.52]****Surface coating processes**

(a) The permittee shall maintain for Source P143 daily records of:

(1) The following parameters for each coating, thinner and other component as supplied:

- (i) The coating, thinner or component name and identification number.
- (ii) The volume used.
- (iii) The mix ratio.
- (iv) The density or specific gravity.
- (v) The weight percent of total volatiles, water, solids and exempt solvents.
- (vi) The volume percent of solids.

(2) The VOC content of each coating, thinner and other component as supplied.

(3) The VOC content of each as applied coating.

(b) All records generated pursuant to this permit condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.****# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall submit semi-annual reports to the Department on a semiannual basis records which include the supporting calculations to verify compliance with the annual volatile organic compound emission limitation for Source P143.

(b) The semi-annual reports shall be submitted to the Department by no later than September 1 (for July 1 of the previous year through June 30 of the concurrent year) and March 1 (for January 1 through December 31 of the previous year).

(c) The permittee shall submit an annual report to the Department of the supporting calculations used to verify compliance with the annual volatile organic compound emission limitation created as a result of natural gas combustion for Control Devices C143 and C141 associated with Source P141.

(d) The annual reports shall be submitted to the Department by no later than March 1 (for January 1 through December 31 of the previous year).

**# 015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.13]****Subpart A--General Provisions****Addresses of State air pollution control agencies and EPA Regional Offices.**

The submission of all requests, reports, applications, submittals and other communications required by Subpart JJJJ of the federal National Emission Standards for Hazardous Air Pollutants, 40 CFR 63.3280 through 63.3420, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The Environmental Protection Agency copies may be sent to:

R3\_Air\_Apps\_and\_Notices@epa.gov

and

The Pennsylvania Department of Environmental Protection  
Air Quality Program Manager  
208 W. Third Street, Suite 101  
Williamsport, PA 17701-6448

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

Control Device C143 shall be maintained and operated in accordance with the manufacturer's specifications and good air pollution control practices.

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

Source P143 is subject to the requirements of 25 Pa. Code Section 129.52. The permittee shall comply with all applicable requirements of 25 Pa. Code Section 129.52.

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

No coating solution containing methylene chloride, 1,1,1 trichloroethane or any other halogenated solvent shall be applied using Source P143.

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

At any given time, the temperature controller regulating the auxiliary gas burner preheating the coater exhaust gases prior to the catalyst bed of Control Device C143 must be set to provide a catalyst bed inlet temperature equal to or greater than the thermal oxidation temperature for the volatile organic compound constituent having the highest thermal oxidation temperature of all volatile organic compounds in the coating solution being used.

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

(a) Source P143 consists of an EAGAN (no model number) polyester film coater TR-5.

(b) The air contaminant emissions from Source P143 shall be controlled by a Thermo-Electron, Inc. Thermocat 8000 natural gas-fired catalytic oxidizer (Control Device ID C143). Control Device C143 is equipped with a 2.3 MMBtu per hour burner.

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

The permittee shall maintain the pre-catalyst bed inlet temperature of Control Device C143 above the thermal oxidation temperature of the volatile organic compound utilized in Source P143.

**# 022 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3350]****Subpart JJJJ - National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating  
If I use a control device to comply with the emission standards, what monitoring must I do?**

The average combustion temperature in any 3-hour period of Control Device C143 must not fall more than 50 °F below the combustion temperature limit established according to 40 CFR Part 63 Section 63.3360(e)(3)(i).

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

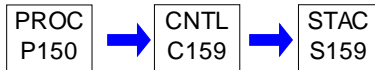


**SECTION D. Source Level Requirements**

Source ID: P150

Source Name: COATING OPERATIONS

Source Capacity/Throughput:

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

No person may permit the emission from any exhaust associated with Source P150 into the outdoor atmosphere particulate matter in excess of 0.04 grains per dry standard cubic foot.

**# 002 [25 Pa. Code §123.21]****General**

No person may permit the emission from any exhaust associated with Source P150 into the outdoor atmosphere in a manner that the concentration of sulfur oxides (SO<sub>x</sub>), expressed as SO<sub>2</sub>, in the effluent gas is in excess of 500 parts per million, by volume, dry basis.

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

The combined volatile organic compound emissions from the three 1,500 gallon coating solutions mix tanks and the parts washer which are all located in the solutions prep/solvent cleanup area B-62 of Source P150 shall not exceed 0.05 tons in any 12 consecutive month period.

**# 004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3320]****Subpart JJJJ - National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating  
What emission standards must I meet?**

The exhaust from Control Device C159 shall not have an organic HAP concentration of no greater than 20 parts per million by volume (ppmv) on a dry basis is achieved and the efficiency of the capture system is 100 percent.

**Fuel Restriction(s).****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Control Device C159 shall be fired only on natural gas.

**Control Device Efficiency Restriction(s).****# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device C159 shall achieve a volatile organic compound destruction efficiency of at least 98% at all times. All VOC emissions generated by all sources of Source P159 (with the exception of the residual film VOC content and valve, flange and pump leaks) shall be captured at an efficiency of not less than 100% and shall be vented to Control Device C159.

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

The volatile organic compound emissions to atmosphere from Coater #3 and from the associated dryer, pump room and volatile organic compound-based Building 62 solutions preparation area of Source P150 shall not exceed a combined total of 20 tons in any 12 consecutive month period (including the residual volatile organic compound content in the film).

**SECTION D. Source Level Requirements****II. TESTING REQUIREMENTS.****# 008 [25 Pa. Code §129.52]****Surface coating processes**

The permittee shall calculate the VOC content of the as applied coatings used in Source P150, expressed in units of weight of VOC per volume of coating solids, as follows:

$$\text{VOC} = (\text{Wo})(\text{Dc})/\text{Vn}$$

where,

VOC = VOC content in lb VOC/gal of coating solids

Wo = Weight percent of VOC (Wv-Ww-Wex)

Wv = Weight percent of total volatiles (100%-weight percent of solids)

Ww = Weight percent of water

Wex = Weight percent of exempt solvent(s)

Dc = Density of coating, lb/gal, at 25°C

Vn = Volume percent of solids of the as applied coating

**III. MONITORING REQUIREMENTS.****# 009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3350]****Subpart JJJJ - National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating****If I use a control device to comply with the emission standards, what monitoring must I do?**

The permittee shall install, maintain, and operate temperature monitoring equipment according to the manufacturer's specifications.

(a) For an oxidizer other than a catalytic oxidizer, install, operate, and maintain a temperature monitoring device equipped with a continuous recorder. The device must be capable of monitoring temperature with an accuracy of  $\pm 1$  percent of the temperature being monitored in degrees Fahrenheit or  $\pm 1.8$  degrees Fahrenheit, whichever is greater. The temperature sensor must be installed in the combustion chamber at a location in the combustion zone.

(b) For temperature sensors, you must develop a quality control program that must contain, at a minimum, a written protocol that describes the procedures for verifying that the temperature sensor is operating properly using at least one of the methods in paragraph (e)(10)(iv)(A), (B), (C), (D), (E), or (F) of this section. The owner or operator shall keep these written procedures on record for the life of the affected source or until the affected source is no longer subject to the provisions of this part, to be made available for inspection, upon request, by the Administrator:

(A) Semiannually, compare measured readings to a National Institute of Standards and Technology (NIST) traceable temperature measurement device or simulate a typical operating temperature using a NIST traceable temperature simulation device. When the temperature measurement device method is used, the sensor of the calibrated device must be placed as close as practicable to the process sensor, and both devices must be subjected to the same environmental conditions. The accuracy of the temperature measured must be 2.5 percent of the temperature measured by the NIST traceable device or 5 degrees Fahrenheit whichever is greater.

(B) Annually validate the temperature sensor by following applicable mechanical and electrical validation procedures in the manufacturer owner's manual.

(C) Annually request the temperature sensor manufacturer to certify or re-certify electromotive force (electrical properties) of the thermocouple.

**SECTION D. Source Level Requirements**

- (D) Annually replace the temperature sensor with a new certified temperature sensor in lieu of validation.
- (E) Permanently install a redundant temperature sensor as close as practicable to the process temperature sensor. The sensors must yield a reading within 2.5 percent of each other for thermal oxidizers and catalytic oxidizers.
- (F) Permanently install a temperature sensor with dual sensors to account for the possibility of failure.
- (c) Conduct the validation checks in paragraph (e)(10)(iv)(A), (B), or (C) of this section any time the temperature sensor exceeds the manufacturer's specified maximum operating temperature range or install a new temperature sensor.
- (d) At least quarterly, inspect temperature sensor components for proper connection and integrity or continuously operate an electronic monitoring system designed to notify personnel if the signal from the temperature sensor is interrupted.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.95]

(a) The permittee shall maintain records of the following operating parameters for Source P150:

(1) volatile organic compound emission calculations used to verify compliance with the annual emission limitation for Coater #3, associated dryer, pump room and volatile organic compound-based Building 62 solutions preparation area on a monthly basis

(2) supporting calculations used to verify compliance with the overall volatile organic compound control efficiency requirement for Coater #3

(b) All records generated pursuant to this permit condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**# 011 [25 Pa. Code §129.52]****Surface coating processes**

(a) The permittee shall maintain for Coater #3 incorporated in Source P150 daily records of:

(1) The following parameters for each coating, thinner and other component as supplied:

- (i) The coating, thinner or component name and identification number.
- (ii) The volume used.
- (iii) The mix ratio.
- (iv) The density or specific gravity.
- (v) The weight percent of total volatiles, water, solids and exempt solvents.
- (vi) The volume percent of solids.

(2) The VOC content of each coating, thinner and other component as supplied.

(3) The VOC content of each as applied coating.

(b) All records generated pursuant to this permit condition shall be retained for a minimum of five (5) years and 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 derived from 25 Pa. Code Sections 129.91 through 129.95]

**SECTION D. Source Level Requirements**

(a) The permittee shall submit to the Department on a semiannual basis records of the following operating parameters for Source P150:

(1) volatile organic compound emission calculations used to verify compliance with the annual emission limitation for Coater #3, associated dryer, pump room and volatile organic compound-based Building 62 solutions preparation area (including the residual volatile organic compound content in the film)

(b) The semi-annual reports shall be submitted to the Department by no later than September 1 (for July of the previous year through December 31 of the concurrent year) and March 1 (for January 1 through December 31 of the previous year).

(c) The permittee shall submit annual reports to the Department of the following operating parameters for Source P150:

(1) volatile organic compound emission calculations used to verify compliance with the annual emission limitation created as a result of natural gas combustion for Control Devices C159, C141 (of Source P141) and C143 (of Source P143)

(d) The annual reports shall be submitted to the Department by no later than March 1 (for January 1 through December 31 of the previous year).

**# 013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.13]**

**Subpart A--General Provisions****Addresses of State air pollution control agencies and EPA Regional Offices.**

The submission of all requests, reports, applications, submittals and other communications required by Subpart JJJJ of the federal National Emission Standards for Hazardous Air Pollutants, 40 CFR 63.3280 through 63.3420, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The Environmental Protection Agency copies may be sent to:

R3\_Air\_Apps\_and\_Notices@epa.gov

and

The Pennsylvania Department of Environmental Protection  
Air Quality Program Manager  
208 W. Third Street, Suite 101  
Williamsport, PA 17701-6448

**VI. WORK PRACTICE REQUIREMENTS.**

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

**VII. ADDITIONAL REQUIREMENTS.**

**# 014 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 129.91 through 129.95]

(a) Source P150 consists of:

- (1) Black & Clawson continuous film web coater (Coater #3),
- (2) coating solutions prep/solvent cleanup area B-62 (utilized in conjunction with Coater #3), associated dryer and pump room,
- (3) Three (3) 1,800-gallon coating solutions mix tanks
- (4) Two (2) 1,500-gallon coating solutions mix tanks
- (5) One (1) 1,200-gallon coating solutions mix tank
- (6) One (1) 1,000-gallon coating solutions mix tank
- (7) One (1) 900-gallon coating solutions mix tank

**SECTION D. Source Level Requirements**

- (8) One (1) 500-gallon coating solutions mix tank
- (9) One (1) 10,000-gallon acetone tank
- (10) One (1) 6,000-gallon methanol tank
- (11) One (1) 6,000-gallon toluene tank
- (12) One (1) n-propanol 2,500-gallon tank

(b) The air contaminant emissions from all sources of Source ID P150 shall be controlled by a 66,500 SCFM Durr model RT rotary valve regenerative thermal oxidizer equipped with a 9.6 million Btu per hour North American manufacturing Company model 4575-10-B HiRam natural gas-fired burner. (Control Device C159).

**# 015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3290]****Subpart JJJJ - National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating**  
**Does this subpart apply to me?**

Source P150 is subject to the requirements of 40 CFR Part 63 Subpart JJJJ Sections 63.3280 through 63.3420 of the National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating. The permittee shall comply with all applicable requirements of 40 CFR Section 63.3280 through 63.3420.

**# 016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3350]****Subpart JJJJ - National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating**  
**If I use a control device to comply with the emission standards, what monitoring must I do?**

The average combustion temperature in any 3-hour period of Control Device C159 must not fall more than 50 °F below the combustion temperature limit established according to 40 CFR Part 63 Section 63.3360(e)(3)(i).

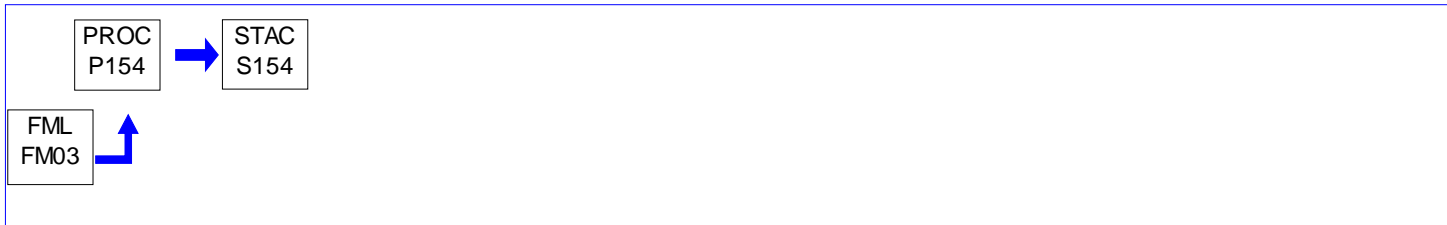
\*\*\* **Permit Shield in Effect.** \*\*\*

**SECTION D. Source Level Requirements**

Source ID: P154

Source Name: EMERGENCY UNITS

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §123.13]

**Processes**

The concentration of particulate matter in the exhaust of each diesel-fired fire pump engine incorporated in Source P154 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

# 002 [25 Pa. Code §123.21]

**General**

The concentration of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), in the exhaust from each diesel-fired fire pump engine incorporated in Source P154 shall not exceed 500 parts per million, by volume, dry basis.

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a) Pursuant to 25 Pa. Code Sections 129.91 through 129.95, the volatile organic compound emissions from Source P154 shall not exceed 3 lbs/hour or 15 lbs/day.

(b) Pursuant to 25 Pa. Code Section 129.97(c)(2), the volatile organic compound emissions from Source P154 shall be less than 2.7 tons per year.

**Fuel Restriction(s).**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Only diesel fuel shall be fired in each source of Source P154. The diesel fuel fired in each source of Source P154 shall not exceed 0.0015% sulfur (by weight).

**Operation Hours Restriction(s).**

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from the permittee taking this elective restriction]

{Compliance with this permit condition will assure compliance with the requirements of 25 Pa. Code Section 129.97(c)(8)}

The permittee shall operate each engine incorporated in Source P154 less than 400 hours in any 12 consecutive month period.

**II. TESTING REQUIREMENTS.**

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

**SECTION D. Source Level Requirements****III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.100]

(a) The permittee shall keep records of the following operating parameters for Source P154:

- (1) volatile organic compound emission calculations used to verify compliance with the annual emission limitation
- (2) The hours of operation for each fire pump engine incorporated in Source P154

(b) All records generated pursuant to this permit condition shall be kept for five (5) years and shall be made to the Department upon request.

**V. REPORTING REQUIREMENTS.**

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

(a) The permittee shall submit annual reports to the Department of the following operating parameters for Source P154:

- (1) volatile organic compound emission calculations used to verify compliance with the annual emission limitation
- (2) The hours of operation for each fire pump engine incorporated in Source P154

(b) The annual reports shall be submitted to the Department by no later than March 1 (for January 1 through December 31 of the previous year).

**# 008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6650]**

**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What reports must I submit and when?**

The submission of all requests, reports, applications, submittals and other communications required by Subpart ZZZZ of the federal National Emission Standards for Hazardous Air Pollutants, 40 CFR 63.6580 through 63.6675, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The Environmental Protection Agency copies may be sent to:

R3\_Air\_Apps\_and\_Notices@epa.gov

and

The Pennsylvania Department of Environmental Protection  
Air Quality Program Manager  
208 W. Third Street, Suite 101  
Williamsport, PA 17701-6448

**VI. WORK PRACTICE REQUIREMENTS.**

**# 009 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 40 CFR Part 63 Subpart ZZZZ Section 63.6603]

**SECTION D. Source Level Requirements**

The permittee shall perform the following for each engine incorporated in Source P154:

- (a) change the oil and inspect the filter every 1,000 hours of operation or annually, whichever comes first,
- (b) inspect all belts and hoses every 500 hours of operation or annually, whichever comes first

**# 010 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.97(d)]

Each engine incorporated in Source P154 shall be operated and maintained in accordance with the manufacturer's specifications and good air pollution control practices.

**VII. ADDITIONAL REQUIREMENTS.**

**# 011 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Source P154 consists of two (2) diesel-fired emergency engines as described below:

- (a) One (1) 1,135 brake horsepower, Cummins, model QST30-G1, diesel-fired emergency generator engine (Building B8)
- (b) One (1) 340 brake horsepower, Cummins, model NT-855-F5, diesel-fired fire pump engine (Building B-30)

**# 012 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Each engine incorporated in Source P154 is subject to the requirements of 40 CFR Part 63 Subpart ZZZZ Sections 63.6580 through 63.6675. The permittee shall comply with all applicable requirements of 40 CFR Part 63 Subpart ZZZZ.

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

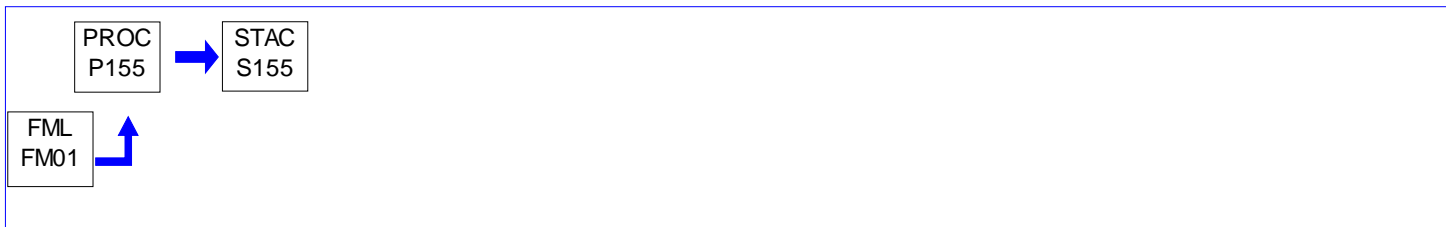


**SECTION D. Source Level Requirements**

Source ID: P155

Source Name: HEAT TREATER

Source Capacity/Throughput:

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

The concentration of particulate matter in the exhaust of Source P155 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

**# 002 [25 Pa. Code §123.21]****General**

The concentration of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), in the exhaust from Source P155 shall not exceed 500 parts per million, by volume, dry basis.

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

(a) Pursuant to 25 Pa. Code Sections 129.91 through 129.95, the volatile organic compound emissions from Source P155 shall not exceed 3 lbs/hour or 15 lbs/day.

(b) Pursuant to 25 Pa. Code Section 129.97(c)(2), the volatile organic compound emissions from Source P155 shall be less than 2.7 tons per year.

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

Only natural gas shall be fired in Source P155.

**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.**

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

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.95]

(a) The permittee shall keep records of the following operating parameters for Source P155:

(1) Calculations used to verify compliance with the annual VOC emission limitation for the Pyralux Mylar Film heat treater

**SECTION D. Source Level Requirements**

(2) the quantity of natural gas used in Source P155

(b) All records generated pursuant to this permit condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

(a) The permittee shall submit annual reports to the Department of the volatile organic compound emission calculations used to verify compliance with the annual emission limitation for Source P155.

(b) The annual reports shall be submitted to the Department by no later than March 1 (for January 1 through December 31).

**VI. WORK PRACTICE REQUIREMENTS.**

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.97(d)]

Source P155 shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices.

**VII. ADDITIONAL REQUIREMENTS.**

**# 008 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Source P155 consists of a 3.78 million Btu per hour, natural gas-fired, Michigan Oven Pyralux Mylar Film heat treater.

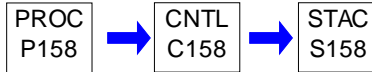
**\*\*\* Permit Shield in Effect. \*\*\***

**SECTION D. Source Level Requirements**

Source ID: P158

Source Name: BUILDING 41 OVEN

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this plan approval condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The emission of volatile organic compounds from Source P158, prior to the installation of Control Device C158, shall not exceed a total combined 0.44 tons in any 12 consecutive month period.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.****# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this plan approval condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device C158 shall be equipped with instrumentation to continuously monitor the exhaust temperature of the respective control device and the differential pressure across the respective control device.

**IV. RECORDKEEPING REQUIREMENTS.****# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall maintain accurate and comprehensive records of the following:

- (1) the number of rolls treated in Source P158 each month;
- (2) the identity of all volatile organic compounds contained in each roll;
- (3) the amount, in pounds, of condensate collected from Control Device C158 each month.

(b) All such records generated pursuant to this condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

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

**VI. WORK PRACTICE REQUIREMENTS.****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this plan approval condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P158 shall be equipped with an interlock that will prevent the heaters incorporated in Source P158 from energizing

**SECTION D. Source Level Requirements**

in the event that the temperature of the exhaust of Control Device C158 exceeds 30°F.

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this plan approval condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Condensate from Control Device C158 shall be collected via an enclosed system and stored in closed containers.

**VII. ADDITIONAL REQUIREMENTS.**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this plan approval condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

(a) Source P158 is an electrically heated C. Sun Manufacturing Limited Model QHMO-7S oven located in Building 41 that is used to treat rolls of polymer-coated metal foil in a nitrogen atmosphere.

(b) Control Device C158 is a single-pass, countercurrent Nucon International, cold-condensing condenser.

(c) The air contaminant emissions from Source P158 shall be controlled by Control Device C158 any time that Source P158 is operated. If Control Device C158 is incapable of operation for any reason, Source P158 shall not be operated.

**# 007 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this plan approval condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The rolls of polymer-coated metal foil treated in Source P158 shall not contain any volatile hazardous air pollutants.

**# 008 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

[Additional authority for this plan approval condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The exhaust temperature of Control Device C158 shall not exceed 30°F at any time Source P158 is in operation.

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

**SECTION D. Source Level Requirements**

Source ID: P159

Source Name: NO. 11 COATER (THERMAL COLOR FILTERS COATER)

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1, 127.12 and 129.96]

(a) The emission of volatile organic compounds and/or non-volatile organic compound organic solvents from Source P159 shall not exceed 24.46 tons in any 12 consecutive month period.

(b) The emission of volatile hazardous air pollutants from Source P159 shall not exceed 24.4 tons in any 12 consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1, 127.12 and 129.96]

The concentration of nitrogen oxides, expressed as nitrogen dioxide (NO<sub>x</sub>, expressed as NO<sub>2</sub>), in the exhaust of Control Device C159 shall not at any time exceed 55 parts per million, by volume, dry basis, corrected to 3% oxygen. In addition, the total emission of nitrogen oxides from Control Device C159 shall not exceed 0.8 tons in any 12 consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The concentration of carbon monoxide in the exhaust of Control Device C159 shall not at any time exceed 50 parts per million, by volume, dry basis, corrected to 3% oxygen. In addition, the total emission of carbon monoxide from Control Device C159 shall not exceed 0.4 tons in any 12 consecutive month period.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1, 127.12 and 129.96]

The air contaminant emissions from Source P159 shall be controlled by Control Device C159 at all times more than 7.0 pounds of volatile organic compounds and/or non-volatile organic solvent or more than 6.0 pounds of volatile hazardous air pollutants are being processed through Source ID P159 per hour.

**Throughput Restriction(s).****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The only volatile hazardous air pollutants that may be used in the coatings applied in Source P159 are the following:

- (1) butyl carbitol acetate (a glycol ether)
- (2) dibutyl carbitol (a glycol ether)
- (3) Dowanol DE (a glycol ether)

**SECTION D. Source Level Requirements**

- (4) ethyl benzene
- (5) ethylene glycol
- (6) hexane
- (7) methanol
- (8) methyl isobutyl ketone
- (9) toluene
- (10) xylene

**Control Device Efficiency Restriction(s).****# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1, 127.12 and 129.96]

(a) The capture efficiency of the volatile organic compound capture system associated with Source P159 shall be 100%. All volatile organic compounds captured shall be ducted to Control Device C159.

(b) The volatile organic compound destruction efficiency of Control Device C159 shall be equal to, or greater than, 98% at all times.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1, 127.12 and 129.96]

{Compliance with this permit condition assures compliance with the requirements of 40 CFR Section 63.3320}

Control Device C159 shall achieve a volatile organic compound/non-volatile organic compound organic solvent/volatile hazardous air pollutant destruction efficiency of at least 98% when the concentration of volatile organic compounds/non-volatile organic compound organic solvents/volatile hazardous air pollutants in the inlet to Control Device C159 is in excess of 500 parts per million, by volume, expressed as propane. If the inlet concentration of volatile organic compounds/non-volatile organic compound organic solvents/volatile hazardous air pollutants is 500 parts per million or less, the concentration of volatile organic compounds/non-volatile organic compound organic solvents/volatile hazardous air pollutants in the exhaust of Control Device C159 shall not exceed 5 parts per million, by volume, expressed as propane.

**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.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P159 shall be equipped with instrumentation to monitor the mass flow rate of coatings as they are applied (or the permittee shall implement an alternate method, approved by the Department, of accurately determining this information). At a minimum, the mass flow rate shall be determined and recorded at least once every 15 minutes.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device C159 shall be equipped with instrumentation to continuously monitor the pressure differential across the rotary valve seal.

**SECTION D. Source Level Requirements****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device C159 shall be equipped with instrumentation to continuously monitor the combustion chamber temperature and shall be recorded once every minute and averaged every 15 minutes..

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source ID P159 shall be equipped with instrumentation to monitor the exhaust gas from Source ID P159 on a continuous basis as well as interlocks to prevent the operation of Source ID P159 if the total combined exhaust gas flow rate to Control Device C159 is in excess of 66,500 SCFM.

**IV. RECORDKEEPING REQUIREMENTS.****# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.100(d)]

(a) The permittee shall maintain accurate and comprehensive records of the mass flow rate of coatings as they are applied. The identity of the coating being applied shall also be recorded on each occasion the mass flow rate is recorded.

(b) All records generated pursuant to this permit condition shall be retained for a minimum of five (5) years and 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 derived from 25 Pa. Code Section 129.100(d)]

(a) The permittee shall maintain accurate and comprehensive records of the combustion chamber temperature of Control Device C159. At a minimum, the combustion chamber temperature shall be recorded at least once every 60 seconds.

(b) All records generated pursuant to this permit condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

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

(a) The permittee shall maintain accurate and comprehensive records of all volatile organic compound-containing, non-volatile organic compound organic solvent-containing, and volatile hazardous air pollutant-containing coatings used in Source P159. These records shall include the following:

- (1) the identity of each coating used;
- (2) the amount of each coating used each month;
- (3) the volatile organic compound content of each coating used;
- (4) the non-volatile organic compound organic solvent content of each coating used; and
- (5) the volatile hazardous air pollutant content of each coating used.

(b) The permittee shall additionally maintain comprehensive accurate records of the amount of volatile organic compounds, the amount of non-volatile organic compound organic solvents and the amount of volatile hazardous air pollutants emitted from Source P159 and Control Device C159 each month.

(c) All records generated pursuant to this permit condition shall be retained for a minimum of five (5) years and shall be made available to the Department upon request. These records shall include all background information and calculations used in the derivation of the reported values.

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

(a) The permittee shall submit semi-annual reports to the Department that include the records required by Condition #012 above.

(b) The semi-annual reports shall be submitted to the Department by no later than March 1 (for January 1 through December 31 of the previous year) and September 1 (for July 1 of the previous year through June 30 of the concurrent year). The reports shall include all background information and calculations used in the derivation of the reported values.

**# 016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.13]****Subpart A--General Provisions****Addresses of State air pollution control agencies and EPA Regional Offices.**

The submission of all requests, reports, applications, submittals, and other communications required by Subpart JJJJ of the National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating, 40 CFR 63.3280-63.3420, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The Environmental Protection Agency copies may be sent to:

R3\_Air\_Apps\_and\_Notices@epa.gov

and

The Pennsylvania Department of Environmental Protection  
Air Quality Program Manager  
208 W. Third Street, Suite 101  
Williamsport, PA 17701-6448

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.97(c)(6)]

The permittee shall maintain and operate Control Device C159 and Source P159 in accordance with the manufacturer's specifications and with good operating practices.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1, 127.12 and 129.96]

The combustion chamber temperature of Control Device C159 shall be maintained at a minimum of 1,550°F at all times that Control Device C159 is in operation except that the permittee may operate Control Device C159 at a lower combustion chamber temperature during the performance of stack testing (but, at no time, lower than 1,400°F). Additionally, the Department reserves the right to require the maintenance of a combustion chamber temperature in excess of 1,550°F if stack testing demonstrates that a higher temperature is needed to achieve the required volatile organic compound/non-volatile organic compound organic solvent/volatile hazardous air pollutant destruction efficiency and/or emission limits specified herein. At any time the use of Control Device C159 is required by the conditions contained herein, Source P159 shall not operate if the combustion chamber temperature of Control Device C159 is less than 1,550°F, except during the performance of stack testing.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1, 127.12 and 129.96]

Source P159 shall not be operated, at any time, without the simultaneous operation of Control Device C159.



**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 020 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

(a) Source P159 is a New Era film coater consisting of a pump room, two coating application stations, a dryer and associated web handling equipment. Coating solutions are prepared in the Building 62 solutions preparation area (Source P150). The pump room and coating stations are designed as permanent total enclosures.

(b) Control Device C159 is a 66,500 SCFM Dürr model RL rotary valve regenerative thermal oxidizer equipped with a 9.6 million Btu per hour North American Manufacturing Company model 4575-10-B HiRam natural gas-fired burner.

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

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P159 shall be equipped with fail safe switches or interlocks which shall shut down Source P159 if the inlet exhaust gas flow rate to Control Device C159 is in excess of 66,500 SCFM.

**# 022 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.3290]****Subpart JJJJ - National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating****Does this subpart apply to me?**

Source P159 is subject to the requirements of 40 CFR Part 63 Subpart JJJJ Sections 63.3280 through 63.3420 of the National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating. The permittee shall comply with all applicable requirements of 40 CFR Sections 63.3280 through 63.3420.

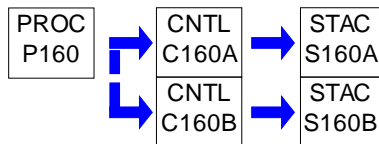
**\*\*\* Permit Shield in Effect. \*\*\***

**SECTION D. Source Level Requirements**

Source ID: P160

Source Name: TWO-ROLL CORONA FILM TREATER

Source Capacity/Throughput:

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

The concentration of particulate matter in the exhaust of either Control Device C160A or C160B associated with Source P160 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

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

[Additional authority for this plan approval condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The concentration of ozone in the exhausts of Control Devices C160A and C160B associated with Source P160 shall not at any time exceed 0.2 parts per million.

**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.**

[Additional authority for this plan approval condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source P160 shall be equipped with the following:

- (1) instrumentation to continuously monitor the ozone concentration in the exhausts of Control Devices C160A and C160B;
- (2) an alarm which will sound if the ozone concentration in the exhaust of Control Device C160A or C160B exceeds 0.1 parts per million; and
- (3) an interlock system which will prevent the respective corona treatment unit incorporated in Source P160 from energizing if the ozone concentration in the exhaust of Control Device C160A or C160B, respectively, exceeds 0.2 parts per million or if airflow to Control Device C160A or C160B, respectively, has not been established.

**IV. RECORDKEEPING REQUIREMENTS.**

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

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

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

**VI. WORK PRACTICE REQUIREMENTS.**

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

**VII. ADDITIONAL REQUIREMENTS.****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) Source P160 is a custom Enercon Industries Corporation two-roll corona film treater that incorporates two corona treatment units with a combined rated capacity of 9.4 Watts per square feet per minute.

(b) Control Devices C160A and C160B are Enercon Ozon-Ex II Ozone Eliminator 03X-40 catalytic ozone decomposers.

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

[Additional authority for this plan approval condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The ozone emissions from the two corona treatment units incorporated in Source P160 shall be controlled at all times by Control Devices C160A and C160B.

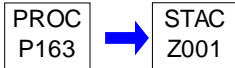
**\*\*\* Permit Shield in Effect. \*\*\***

**SECTION D. Source Level Requirements**

Source ID: P163

Source Name: PARTS WASHER

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

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

(a) The permittee shall keep records of the following information for each solvent degreasing station of Source P163:

- (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 millimeters of mercury at 68 degrees F.

(b) All records generated pursuant to this permit condition shall be kept for a minimum of five (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.****# 002 [25 Pa. Code §129.63]****Degreasing operations**

Each solvent cleaning sink of Source P163 shall have the following:

- (1) A permanent conspicuous label summarizing these operating requirements:
  - (a) Waste solvent shall be collected and stored in a closed container. The closed container may contain a device that allows pressure relief, but does not allow liquid solvent to drip from the container.
  - (b) 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.

**SECTION D. Source Level Requirements**

(c) Sponges, fabric, wood, leather, paper products, and other absorbent materials may not be cleaned in Source P163.

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

(e) Spills during solvent transfer and the use of Source P shall be cleaned up immediately.

(2) 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.

(b) During the draining, tipping or rotating, the parts should be positioned so that solvent drains directly back to Source P163.

(c) Work area fans should be located and positioned so that they do not blow across the opening of Source P163.

**# 003 [25 Pa. Code §129.63]****Degreasing operations**

Source P163 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.

**VII. ADDITIONAL REQUIREMENTS.****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source P163 is a 30-gallon Safety Kleen Model 23 remote-reservoir, solvent-based part washer

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

[Additional authority for this permit condition is derived from 25 Pa. Code Section 129.63]

The vapor pressure of the solvent used in Source P163 shall be less than 1.0 millimeter of mercury (mm Hg) measured at 20 degrees Celsius (68 degrees Fahrenheit). Additionally, no halogenated solvent or solvent to which a volatile hazardous air pollutant has intentionally been added shall be used in Source P163.

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

Source P163 shall be equipped with a cover that shall be closed at all times except during the cleaning of parts or the addition or removal of solvent. A perforated drain with a diameter of not more than 6 inches shall constitute an acceptable cover.

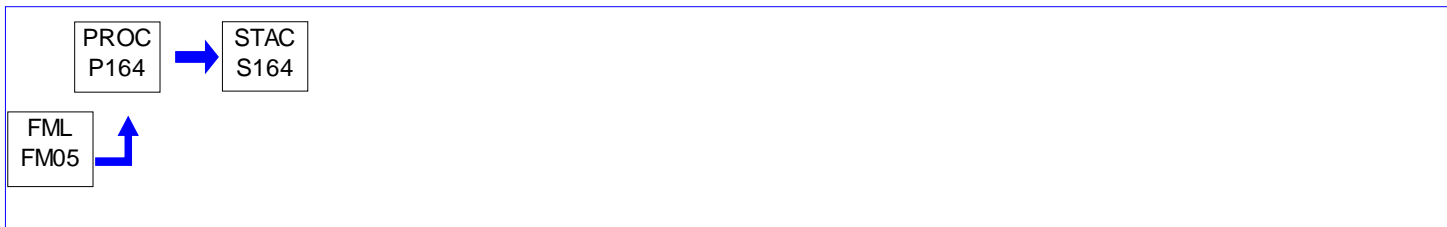
\*\*\* Permit Shield in Effect. \*\*\*

**SECTION D. Source Level Requirements**

Source ID: P164

Source Name: PROPANE FIRED EMERGENCY GENERATOR ENGINE

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §123.13]

**Processes**

The concentration of particulate matter in the exhaust of Source P164 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

# 002 [25 Pa. Code §123.21]

**General**

The concentration of sulfur oxides, expressed as sulfur dioxide (SO<sub>2</sub>), in the exhaust from Source P164 shall not exceed 500 parts per million, by volume, dry basis.

**Fuel Restriction(s).**

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

Source P164 shall be fired on propane only.

**Operation Hours Restriction(s).**

# 004 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from the permittee taking this elective restriction]

Source P164 shall not be operated more than 500 hours in any 12 consecutive month period.

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

# 005 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

(a) The permittee shall keep records of the number of hours that Source P164 is operated on a monthly basis and the supporting calculations used to verify compliance with the operational hour limitation.

(b) All records generated pursuant to this permit condition shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

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

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

**VI. WORK PRACTICE REQUIREMENTS.**

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

**VII. ADDITIONAL REQUIREMENTS.**

**# 006 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Source P164 is a 127.6 brake horsepower, Cummins model QSJ5.9G-G3 propane-fired emergency generator engine.

**# 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4230]**

**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines**

**Am I subject to this subpart?**

Source P164 is subject to the requirements of 40 CFR Part 60 Subpart JJJJ Section 60.4230 through 60.4248. The permittee shall comply with all applicable requirements of 40 CFR Part 60 Subpart JJJJ Sections 60.4230 through 60.4248.

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



**SECTION E. Source Group Restrictions.**





**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Title V facility.



**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.

**SECTION H. Miscellaneous.**

The following air contaminant sources are considered to be of minor significance to the Department and have been determined to be exempt from permit requirements. However, this determination does not exempt the sources from compliance with all applicable air quality regulations specified in 25 Pa. Code Chapters 121-145:

- (1) One (1) 400-gallon On-road diesel storage tank
- (2) Building 10 Laboratory Hoods associated with #3 Coater (RFD submitted 7/92)
- (3) One (1) 400-gallon Off-road diesel storage tank
- (4) One (1) 900-gallon Off-road diesel storage tank
- (5) One (1) 1,000-gallon Off-road Diesel storage tank
- (6) One (1) 400-gallon gasoline storage tank
- (7) One (1) 5,000-gallon #2 fuel oil storage tank
- (8) Forty-seven (47) Lab hoods
- (9) Three (3) central vacuum units (B9, B32, B41)
- (10) One (1) spraybooth Lab hood
- (11) One (1) sand blaster, the exhaust shall vent internally

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This operating permit was revised via administrative amendment on June 2, 2008 to incorporate the terms and conditions of Plan Approval 08-00002A for the operation of a polymer-coated metal foil treating oven (Source P158) whose air contaminant emissions are controlled by a single pass, countercurrent spiral condenser (Control Device C158).

This operating permit was renewed on



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

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