



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: September 18, 2025

Effective Date: September 18, 2025

Expiration Date: September 17, 2030

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: 23-00014

Federal Tax Id - Plant Code: 11-3665040-1

Owner Information

Name: KIMBERLY CLARK CORPORATION

Mailing Address: 1 AVENUE OF THE STATES
CHESTER, PA 19013-4435

Plant Information

Plant: KIMBERLY CLARK CORP/CHESTER OPR

Location: 23 Delaware County

23001 Chester City

SIC Code: 2676 Manufacturing - Sanitary Paper Products

Responsible Official

Name: ERIC BRYANT

Title: PLANT MANAGER

Phone: (610) 499 - 6673

Email: eric.bryant@kcc.com

Permit Contact Person

Name: AMANDA KATZOFF

Title: LEAD ENV ENGINEER

Phone: (610) 499 - 6152

Email: amanda.katzoff@kcc.com

[Signature] _____

JILLIAN A. GALLAGHER, SOUTHEAST REGION AIR PROGRAM MANAGER



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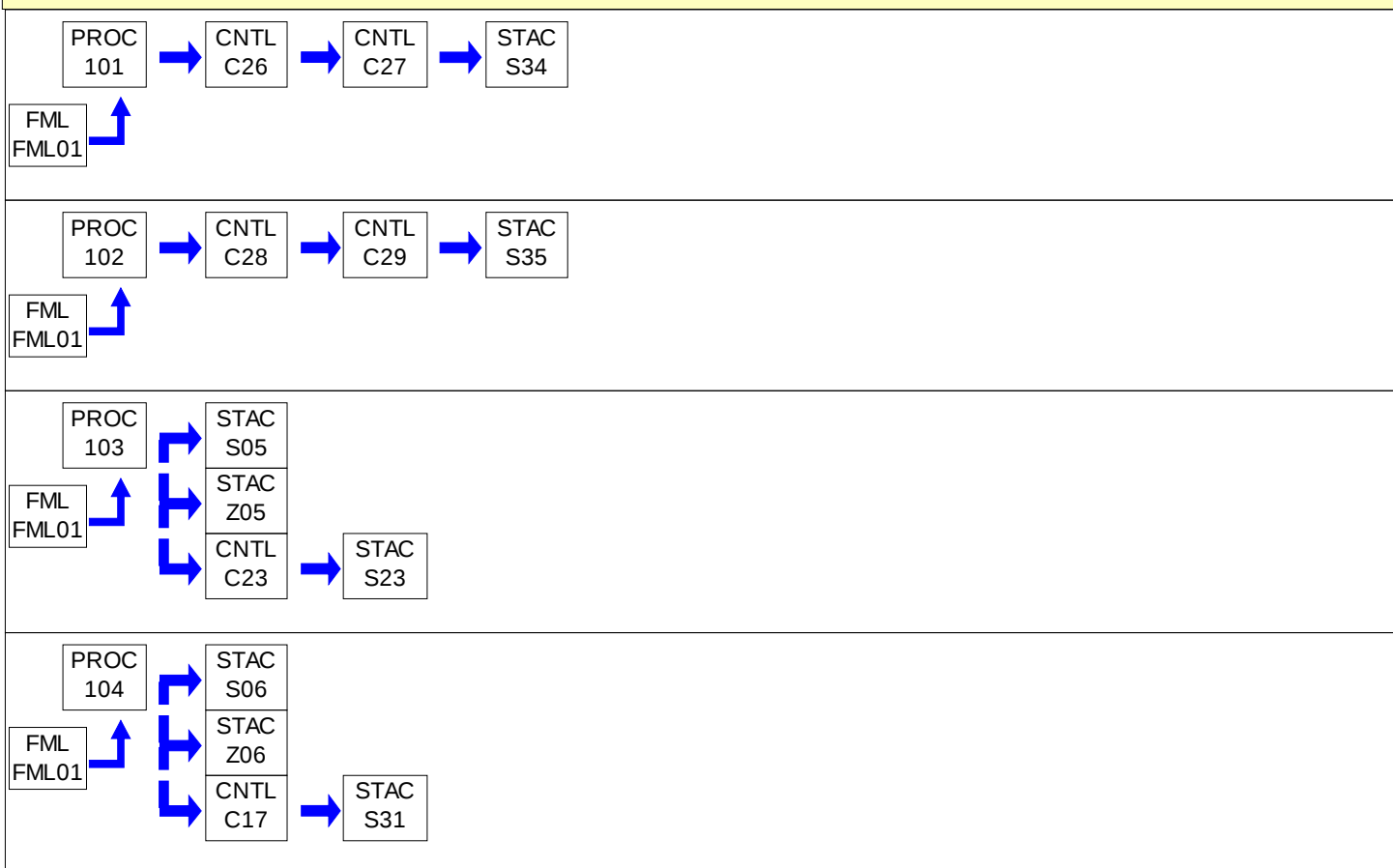
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**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput		Fuel/Material
101	COGENERATION SYSTEM #2 (TURBINE 2 + HRSG 2), SN KG19194	263.000	MCF/HR	Natural Gas
102	COGENERATION SYSTEM #1 (TURBINE 1 + HRSG 1), SN KG19193	263.000	MCF/HR	Natural Gas
103	PAPER MACHINE 17	34.000	MMBTU/HR	
		33.000	MCF/HR	Natural Gas
		6.000	Tons/HR	PAPER SHEETS
104	PAPER MACHINE 18	60.000	MMBTU/HR	
		58.250	MCF/HR	Natural Gas
		9.600	Tons/HR	PAPER SHEETS
110	TURBINE #2 (ONLY)	181.000	MCF/HR	Natural Gas
124	PAPER MACHINE 12	34.000	MMBTU/HR	
		5.875	Tons/HR	PAPERSHEETING
		33.010	MCF/HR	Natural Gas
125B	PCMC CONVERTING AREA	10.400	Tons/HR	TISSUE PAPER
125C	PERINI CONVERTING AREA	5.700	Tons/HR	TISSUE PAPER
125G	ST-1 CONVERTING AREA W/ TWO AIR HANDLING UNITS	12.900	Tons/HR	TISSUE PAPER
126A	FILTERED WATER TREAT PLT	1.042	M Gal/HR	RIVER WATER
131	350 KW GENERATOR	24.400	Gal/HR	Diesel Fuel
149	THREE (3) EMERGENCY GENERATORS (500 KW EACH)	31.200	Gal/HR	Diesel Fuel
204A	EXEMPT FIRE PUMP			
C12	PCMC BAGHOUSE 1			
C125G	ST-1 CONVERTING AREA AHU VENTURI SCRUBBER (2 TOTAL)	5.200	Lbs/HR	TISSUE PAPER
C14	PERINI FILTER 1			
C15	PERINI FILTER 2			
C16	PERINI SCRUBBER			
C17	PAPER MACHINE 18 SCRUBBER			
C22	PCMC BAGHOUSE 3			
C23	PAPER MACHINE 17 SCRUBBER			
C25	PAPER MACHINE NO. 12 SCRUBBER			
C26	OXIDATION CATALYST			
C27	SELECTIVE CATALYTIC REDUCTION			
C28	OXIDATION CATALYST			
C29	SELECTIVE CATALYTIC REDUCTION			
FML01	NATURAL GAS PIPELINE			
FML16	THREE (3) DIESEL FUEL STORAGE TANKS			
S05	STACK, 17 PAPER MACH (MULTIPLE)			
S06	STACK, PAPER MACH 18 (MULTIPLE)			
S125G	ST-1 CONVERTING AREA AHU VENTURI SCRUBBER STACKS (2 TOTAL)			
S13	STACK, 12 PAPER MACH			

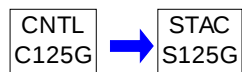
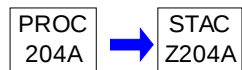
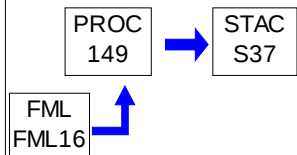
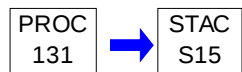
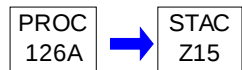
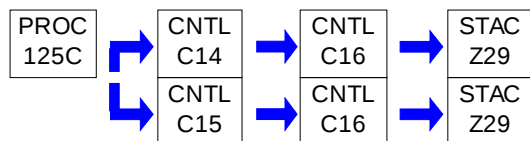
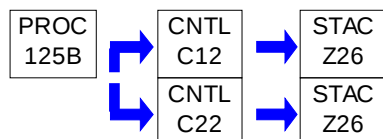
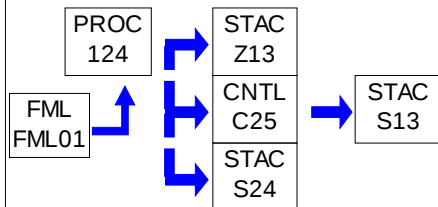
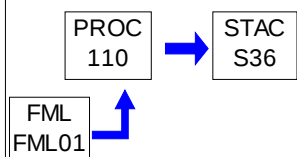
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
S15	STACK, 350 KW GEN		
S23	PM 17 SCRUBBER STACK		
S24	PAPER MACHINE 12 STACK (MULTIPLE)		
S31	PAPER MACH 18 SCRUBBER STACK		
S34	COGENERATION SYSTEM 101 STACK		
S35	COGENERATION SYSTEM 102 STACK		
S36	TURBINE #2 DIVERTER STACK		
S37	EMERGENCY GENERATOR STACK		
Z05	FUGITIVES, 17 PAPER		
Z06	FUGITIVES, PAPER MACH 18		
Z13	FUGITIVES, PAPER MACH 12		
Z15	FUGITIVES, FILTERED WATER TREAT PLT		
Z204A	FUGITIVES, EXEMPT FIRE PUMP		
Z26	FUGITIVES, PCMC AREA		
Z29	FUGITIVES, PERINI		

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 Air Pollution Control Act (35 P.S. §§ 4001-4015).

#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.

**SECTION B. General Title V Requirements**

(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_x from a single source during the term of the permit and 5 tons of NO_x at the facility during the term of the permit.

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

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

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

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

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

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

**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

**SECTION B. General Title V Requirements**

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.

**SECTION B. General Title V Requirements**

(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 §121.7]****Prohibition of air pollution.**

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

002 [25 Pa. Code §123.1]**Prohibition of certain fugitive emissions**

(a) No person may permit the emission into the outdoor atmosphere of fugitive air contaminant 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, as specified in 25 Pa. Code § 129.14.
- (7) N/A
- (8) N/A
- (9) Sources and classes of sources other than those identified in (1)-(8) of this condition, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (i) The emissions are of minor significance with respect to causing air pollution; and
 - (ii) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

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

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 25 Pa. Code § 123.1(a) (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

004 [25 Pa. Code §123.31]**Limitations**

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

005 [25 Pa. Code §123.41]**Limitations**

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

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

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

The opacity limitations as per 25 Pa. Code § 123.41 shall not apply to a visible emission in any of the following instances:

**SECTION C. Site Level Requirements**

- (a) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (b) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (c) When the emission results from the sources specified in 25 Pa. Code § 123.1(a) (relating to prohibition of certain fugitive emissions).

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

- (a) Individual HAP emissions from the entire facility shall not exceed 9.99 tons in any 12 consecutive month period.
- (b) Total HAP emissions from the entire facility shall not exceed 24.99 tons in any 12 consecutive month period.

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

The total annual VOC emissions from the facility shall not exceed 49 tons per year on a 12-month rolling basis.

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

Annual VOC emissions from the different sources at the facility shall be limited to:

- (a). The maximum production rates for each paper machine are listed in Kimberly-Clark's application Technical Addendum dated October 17, 1997.

- (b). Tanks and Miscellaneous Sources:

The total emissions of VOC from the 350 kW generator tank, and building/grounds shall not exceed 4.42 tpy as 12 month rolling sum.

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

The following facilitywide HAP emission limits shall not be exceeded:

- 1) The total emissions from any single HAP shall not exceed 9.99 tons per year on a 12-month rolling basis.
- 2) The total emissions from any combination of HAP shall not exceed 24.99 tons per year on a 12-month rolling basis.

011 [25 Pa. Code §129.14]**Open burning operations**

No person may permit the open burning of material in the Southeast Air Basin except where the open burning operations result from:

- (a) a fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer;
- (b) any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department;
- (c) a fire set for the prevention and control of disease or pests, when approved by the Department;
- (d) a fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation;
- (e) a fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as

**SECTION C. Site Level Requirements**

a dwelling by two families or less and when the refuse results from the normal occupancy of the structure;
(f) a fire set solely for recreational or ceremonial purposes; or
(g) a fire set solely for cooking food.

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

The Department reserves the right to require exhaust stack testing of the sources referenced in this permit as necessary during the permit term to verify emissions for purposes including emission fees, malfunction or permit condition violations.

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

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

(b) Such testing shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139, the most current version of the DEP Source Testing Manual, and the EPA Clean Air Act National Stack Testing Guidance, when applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.

III. MONITORING REQUIREMENTS.**# 014 [25 Pa. Code §123.43]****Measuring techniques**

Visible air contaminants may be measured using either of the following:

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

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

The permittee shall compile monthly individual and total HAP emission calculations.

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

The permittee shall monitor the necessary data and information needed to demonstrate compliance with the facility-wide VOC limit. Stack test results and hours of operation or monthly fuel usage data will be monitored to calculate emissions from combustion sources (Source IDs 103, 104, 124). VOC content and monthly chemical usage will be monitored to calculate emissions from process VOC sources (103, 104, 124, 125B, 125C, 125G, 126A).

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



SECTION C. Site Level Requirements

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

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

- (1) odors which may be objectionable (as per 25 Pa. Code §123.31);
- (2) visible emissions (as per 25 Pa. Code §§123.41 and 123.42); and
- (3) fugitive particulate matter (as per 25 Pa. Code §§ 123.1 and 123.2).

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

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

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

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

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

Note: In Section H, DEP has approved monthly monitoring frequency as per letter dated January 23, 2004.

IV. RECORDKEEPING REQUIREMENTS.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

- (a) emissions increase of minor significance without notification to the Department.
- (b) de minimis increases with notification to the Department, via letter.
- (c) increases resulting from a Request for Determination (RFD) to the Department.
- (d) increases resulting from the issuance of a plan approval and subsequent operating permit.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- 1) Each month, the permittee shall record the monthly individual and total sitewide HAP emissions.
- 2) The permittee shall calculate and record the 12-month rolling individual and total emissions by aggregating the current month with the previous 11 months to demonstrate compliance with the sitewide HAP limitations.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the following information on a monthly basis for the facility and shall make the records available to the Department upon request:

- (a) Monthly facility-wide emissions of VOC in tons per month.
- (b) Annual facility-wide emissions of VOC in tons per year calculated on a 12-month rolling basis.

**SECTION C. Site Level Requirements****# 021 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain detailed records of all maintenance performed on the air emissions control systems for the most recent five-year period.

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

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

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

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

023 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

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

024 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

The permittee shall record greenhouse gas emissions (CO₂, CH₄, N₂O), including any relevant emissions data, from all stationary fuel combustion sources at the facility as part of compliance as applicable with the GHG Mandatory Reporting Rule.

025 [25 Pa. Code §135.5]**Recordkeeping**

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

V. REPORTING REQUIREMENTS.**# 026 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to DEP's 24-hour Emergency Hotline at 800.541.2050. 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 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

**SECTION C. Site Level Requirements**

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; and
- (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.

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

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

The permittee shall submit the following:

(a) An annual certificate of compliance, due by April 1st of each year, for the period covering January 1 through December 31 of the previous year. This certificate of compliance shall document compliance with all permit terms and conditions set forth in this Title V permit as required under condition #26 of section B of this permit. The annual certificate of compliance shall be submitted to DEP electronically, and to EPA Region III in electronic form at the following email address: R3_APD_Permits@epa.gov. The subject line shall read: "TVOP No. xxx, Facility Namexxx."

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

028 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

In general, reports that are required to be submitted under parts 60 and 63, except as required by the applicable regulation, are submitted through the CEDRI portal of the Central Data Exchange (CDX): <https://cdx.epa.gov/>

NSPS reports may be submitted electronically to EPA's Central Data Exchange: <https://cdx.epa.gov/>

Reports submitted through Compliance and Emissions Data Reporting Interface (CEDRI) can be viewed by the public

**SECTION C. Site Level Requirements**

through WebFIRE: <https://cfpub.epa.gov/webfire/reports/esearch.cfm>

Copies of Title V Permit Applications emailed to EPA: R3_Air_Apps_and_Notices@epa.gov.

Subject line: TV [permit number], [Facility Name]

Title V Compliance Certifications: The annual certificate of compliance shall be submitted to the Department in paper form, and EPA Region III in electronic form at the following email address: R3_APD_Permits@epa.gov. The subject line shall read: "TVOP No. xxx, Facility Name xxx."

029 [25 Pa. Code §135.21]**Emission statements**

The permittee shall submit by March 1, of each year, an annual emission statement for NO_x and VOC emissions for the preceding calendar year. Additionally, a description of the method used to calculate the emissions shall be included. The statement shall contain a certification by a company official or plant manager that the information contained in the statement is true and accurate.

030 [25 Pa. Code §135.4]**Report format**

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

031 [40 CFR Part 98 Mandatory Greenhouse Gas Reporting §40 CFR 98.36]**SUBPART C - General Stationary Fuel Combustion Sources
Data reporting requirements.**

The permittee shall report Greenhouse Gas (GHG) emissions in accordance with 40 CFR Part 98 Subpart C as applicable.

VI. WORK PRACTICE REQUIREMENTS.**# 032 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

A person responsible for any source specified 25 Pa. Code § 123.1 shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following

- (a) use, where possible, of water or suitable chemicals, for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land;
- (b) application of asphalt, water, or other suitable chemicals, on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts;
- (c) paving and maintenance of roadways; and
- (d) prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or by other means.

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

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

The permittee may not modify any air contaminant system identified in this permit, prior to obtaining Department approval,

**SECTION C. Site Level Requirements**

except those modifications authorized by Condition #019(g), of Section B, of this permit.

034 [25 Pa. Code §127.441]
Operating permit terms and conditions.

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

The permittee shall ensure that the source(s) and air pollution control device(s), listed in this permit, are operated and maintained in a manner consistent with good operating and maintenance practices, and in accordance with manufacturer's specifications.

035 [25 Pa. Code §127.441]
Operating permit terms and conditions.

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

VII. ADDITIONAL REQUIREMENTS.

036 [25 Pa. Code §127.441]
Operating permit terms and conditions.

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

037 [25 Pa. Code §127.441]
Operating permit terms and conditions.

All air pollution sources and air pollution control devices referenced in this permit shall be operated and maintained in accordance with the manufacturer's general recommendations and good air pollution control practices.

038 [25 Pa. Code §127.441]
Operating permit terms and conditions.

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

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: 101

Source Name: COGENERATION SYSTEM #2 (TURBINE 2 + HRSG 2), SN KG19194

Source Capacity/Throughput: 263.000 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 100
200**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

A. Except during startup and shutdown, the emissions from the combination of the turbine and the heat recovery unit shall not exceed the limitations specified below. The pounds per hour (lb/hr) emissions are a 3-hour rolling average.

Pollutant	Emission Limits	
NOx*	2.5 lb/hr	2.5 ppmv @15% O2**
CO	3.0 lb/hr	5.0 ppmv @15% O2
Ammonia Slip	-	5.0 ppmv @15% O2
VOC	1.69 lb/hr	
SO2	0.68 lb/hr	
PM10***	2.26 lb/hr	
PM2.5***	2.26 lb/hr	
PMtotal***	2.26 lb/hr	

* Compliance with this NOx emission concentration assures compliance with 40 CFR 60.4320(a).

** Pursuant to 40 CFR 60.4320(a) and Table 1 to Subpart KKKK of Part 60 when the turbine is operated at less than 0°F or at loads less than 75% of peak load the NOx limitation shall be 150 ppmvd at 15% O2 or 8.7 lb/MWh. Peak load is defined as the maximum energy input of 185 MMBtu/hr.

*** for PM10, PM2.5 and PMtotal, emissions limits are for filterable PM only.

DEP reserves the right to change these emission limits based upon the performance test results.

B. The following emission apply only during startup and shutdown periods:

Pollutant	Startup	Shutdown
NOx	3 lb/event	3 lb/event
CO	172 lb/event	169 lb/event
VOC	28 lb/event	22 lb/event

Startup operations begin once the startup process is initiated and ends once turbine operation stabilizes and the turbine reaches 50% load.

Shutdown operations begin once the shutdown process is initiated and the turbine output falls below 50% load.

**SECTION D. Source Level Requirements**

The number of start-ups events shall not exceed fifty-five (55) events per year. A start-up events shall include a SoLoNOx events. A SoLoNOx events is defined as any time when the unit drops out of SoLoNOx (dry low NOx) mode due to load or other operational changes as identified by the unit's control system.

The number of shutdowns shall not exceed fifty-five (55) events per year. Each startup is expected to last one hour and each shutdown half an hour. The permittee may perform extended startups of up to 8 hours to complete required tuning and commissioning once per year. Each hour of the extended startup will count as one (1) event towards the 55 events per year limit.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of a combined cycle gas turbine manufactured by Solar, Model: Titan 130, Serial Number KG19194, with a rated Heat Input of 185 mMBtu/hr. This source also consists of Heat Recovery Steam Generator (HRSG2) manufactured by Rentech, Serial Number 2019-29-BLR, with a Rated Heat Input of 83 MMBtu/hr. Both the turbine and HRSG operate with Low NOx burners.

This source controls NOx with a Selective Catalytic Reduction (SCR) manufactured by Cormetech Model: CM14ST, and controls CO and VOC with a Oxidation Catalyst manufactured by Synergy.

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

**SECTION D. Source Level Requirements**

Source ID: 102

Source Name: COGENERATION SYSTEM #1 (TURBINE 1 + HRSG 1), SN KG19193

Source Capacity/Throughput: 263.000 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 100
200**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

A. Except during startup and shutdown, the emissions from the combination of the turbine and the heat recovery unit shall not exceed the limitations specified below. The pounds per hour (lb/hr) emissions are a 3-hour rolling average.

Pollutant	Emissions
NOx*	2.5 lb/hr 2.5 ppmv @15% O2**
CO	3.0 lb/hr 5.0 ppmv @15% O2
Ammonia Slip	- 5.0 ppmv @15% O2
VOC	1.69 lb/hr
SO2	0.68 lb/hr
PM10***	2.26 lb/hr
PM2.5***	2.26 lb/hr
PMtotal***	2.26 lb/hr

* Compliance with this NOx emission concentration assures compliance with 40 CFR 60.4320(a).

** Pursuant to 40 CFR 60.4320(a) and Table 1 to Subpart KKKK of Part 60 when the turbine is operated at less than 0°F or at loads less than 75% of peak load the NOx limitation shall be 150 ppmvd at 15% O2 or 8.7 lb/MWh. Peak load is defined as the maximum energy input of 185 MMBtu/hr.

*** for PM10, PM2.5 and PMtotal, emissions limits are for filterable PM only.

DEP reserves the right to change these emission rates based upon the initial performance test results.

B. The following emission apply only during startup and shutdown periods:

Pollutant	Startup	Shutdown
NOx	3 lb/event	3 lb/event
CO	172 lb/event	169 lb/event
VOC	28 lb/event	22 lb/event

Startup operations begin once the startup process is initiated and ends once turbine operation stabilizes and the turbine reaches 50% load.

Shutdown operations begin once the shutdown process is initiated and the turbine output falls below 50% load.

**SECTION D. Source Level Requirements**

For sources 102 and 110, the combined start-ups shall not exceed fifty-five (55) events per year. A start-up events shall include a SoLoNOx events. A SoLoNOx events is defined as any time when the unit drops out of SoLoNOx (dry low NOx) mode due to load or other operational changes as identified by the unit's control system.

For sources 102 and 110, the combined shutdowns shall not exceed fifty-five (55) events per year. Each startup is expected to last one hour and each shutdown half an hour. The permittee may perform extended startups of up to 8 hours to complete required tuning and commissioning once per year. Each hour of the extended startup will count as one (1) event towards the 55 events per year limit.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of a combined cycle gas turbine manufactured by Solar, Model: Titan 130, Serial Number KG19193, with a rated Heat Input of 185 mmBtu/hr. This source also consists of Heat Recovery Steam Generator (HRSG1) manufactured by Rentech, Serial Number 2019-30-BLR, with a Rated Heat Input of 83 MMBtu/hr. Both the turbine and HRSG operate with Low NOx burners.

This source controls NOx with a Selective Catalytic Reduction (SCR) manufactured by Cormetech Model: CM14ST, and controls CO and VOC with a Oxidation Catalyst manufactured by Synergy.

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

**SECTION D. Source Level Requirements**

Source ID: 103

Source Name: PAPER MACHINE 17

Source Capacity/Throughput: 34.000 MMBTU/HR
33.000 MCF/HR Natural Gas
6.000 Tons/HR PAPER SHEETS

Conditions for this source occur in the following groups: SG004

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

- a) Unless otherwise stated in this permit, no person may permit the uncontrolled emissions into the outdoor atmosphere of particulate matter in the effluent gas in excess of 0.04 grains per dry standard cubic foot.
- b) The emission of particulate matter from the venturi scrubber associated with this source shall not exceed 0.02 gr/dscf. The scrubber shall have an hourly emission limit of 0.66 pounds per hour and an annual emission limit of 2.89 tons per year on a 12-month rolling basis.

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

No person may permit the emission into the outdoor atmosphere of sulfur oxides from the Paper Machine #17, Source 103 in such a manner that the concentration of sulfur oxides, expressed as sulfur dioxide, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

The permittee shall limit the emissions of NO_x from the burners of Paper Machine No. 17 to 0.1 lb/MMBtu (i.e., 3.40 lb/hr; 11.84 tons/yr on any consecutive 12-month rolling sum period), and the permittee shall limit the emission of VOCs to 0.09 lb/hr; 0.32 ton/yr on any consecutive 12-month rolling sum period.

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

The permittee shall limit the emissions of the pollutants from the drying hood burners of Paper Machine No. 17 to the following:

Particulate Matter (PM ₁₀)	0.20 lb/hr	0.71 tons/yr
Sulfur Dioxide (SO ₂)	0.02 lb/hr	0.07 tons/yr
Carbon Monoxide	3.40 lb/hr	11.84 tons/yr
Non Methane Total	0.09 lb/hr	0.32 tons/yr
Organic Compound (NMTOC)		

Both the hourly limit (lb/hr) and the annual limit (tons/yr) shall be calculated on a 12-month rolling basis.

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

The emission of fugitive particulate matter from this paper machine shall be minimized.

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

The permittee shall operate the two Maxon Corp. EB-7, Yankee Dryer Burners only on commercial natural gas.

Throughput Restriction(s).**# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The peak rated heat capacity of the burners shall be 17.0 MMBtu/hr each. The maximum firing rate of the two burners shall not exceed 33,010 SCFH of natural gas. The total maximum fuel use shall be limited to 230 MMSCF per year on any consecutive 12-month rolling sum period.

Control Device Efficiency Restriction(s).**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain the recirculation flow rate of fluid across the scrubber between 230 gallons per minute and 320 gallons per minute.

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

The pressure differential across the venturi scrubber associated with this source shall be maintained between 9.25 inches water gage and 20 inches water gage.

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

The venturi scrubber associated with this source shall have a control efficiency of at least 98 percent.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

A meter shall be placed on the natural gas line to the burners to measure the amount (in SCF) of natural gas combusted in the Yankee Dryer Burners. The amount of natural gas used shall be compiled monthly for determination of compliance with throughput and emission limits in this permit.

**SECTION D. Source Level Requirements****# 012 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the pressure differential across the venturi scrubber and the recirculation flow rate of the fluid through the venturi scrubber associated with this source on a daily basis.

013 [25 Pa. Code §127.511]**Monitoring and related recordkeeping and reporting requirements.**

The permittee shall monitor the necessary data and information needed to demonstrate compliance with the emission limitations for this source.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code §§129.115(i)&(k)]

The owner or operator of a combustion unit or process heater subject to § 129.112(b) shall record each adjustment conducted under the procedures in § 129.112(b). This record must contain, at a minimum:

- (1) The date of the tuning procedure.
- (2) The name of the service company and the technician performing the procedure.
- (3) The final operating rate or load.
- (4) The final NO_x and CO emission rates.
- (5) The final excess oxygen rate.
- (6) Other information required by this operating permit.

The records shall be retained by the owner or operator for 5 years and made available to the Department or appropriate approved local air pollution control agency upon receipt of a written request from the Department or appropriate approved local air pollution control agency.

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

The amount of natural gas, in SCF, combusted in the Yankee Dryer burners shall be recorded and maintained in a logbook for every calendar month.

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

The permittee shall record the pressure differential across the venturi scrubber and the recirculation flow rate of the fluid through the venturi scrubber associated with this source on a daily basis.

**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) and/or Section E (Source Group Restrictions).

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

[Additional authority for this permit condition is also derived from 25 Pa. Code §129.112(b)(1)(i)]

The permittee shall comply with the following:

The presumptive RACT requirement for a combustion unit with a rated heat input equal to or greater than 20 million Btu/hour and less than 50 million Btu/hour, which is the performance of a biennial tune-up conducted in accordance with the procedures in 40 CFR 63.11223 (relating to how do I demonstrate continuous compliance with the work practice and management practices standards).

(A) Each biennial tune-up shall occur not less than 3 months and not more than 24 months after the date of the previous tune-up.

(B) The biennial tune-up must include, at a minimum, the following:

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

(ii) Inspection of the flame pattern and adjustment of the burner, as necessary, to optimize the flame pattern to minimize total emissions of NO_x and, to the extent possible, emissions of CO.

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

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

The permittee shall not bypass the venturi scrubber associated with Paper Machine No. 17 when this paper machine is in operation.

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

The permittee shall utilize this source in a manner consistent with good operating and maintenance practice.

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

For the venturi scrubber associated with this source, the permittee shall install and maintain an electronic flow meter for measuring the recirculation flow rate of the scrubber fluid.

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

For the venturi scrubber associated with this source, the permittee shall install and maintain an electronic pressure gauge for measuring the pressure differential across the scrubber from the inlet to separator tank.

**SECTION D. Source Level Requirements****# 022 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall operate the scrubber associated with this source in accordance with manufacturer's specifications and good engineering practice.

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

The collected particulate matter (paper dust) shall either be re-used on the paper machine or sent to the facility's process wastewater system.

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

Source ID No. 103 includes, but is not limited to, the following equipment:

(a). Equipment venting to Source ID No. C23:

- (1). Yankee Dryer (paper side).
- (2). Reel.

(b). Equipment venting through a stack (Source ID No. S23; 4 separate stacks total):

- (1). Fan Pump Screens, Head Box, and Forming Section into one stack.
- (2). Press Section.
- (3). Yankee Dryer (combustion side).
- (4). Yankee Pulper.

(c). Other equipment:

- (1). Machine Chest.
- (2). Parent Roll.

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

**SECTION D. Source Level Requirements**

Source ID: 104

Source Name: PAPER MACHINE 18

Source Capacity/Throughput:

60.000 MMBTU/HR

58.250 MCF/HR

Natural Gas

9.600 Tons/HR

PAPER SHEETS

Conditions for this source occur in the following groups: SG004

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

No person may permit the emission into the outdoor atmosphere of particulate matter in the effluent gas in excess of 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from the Paper Machine #18, Source 104 in such a manner that the concentration of sulfur oxides, expressed as sulfur dioxide, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

The permittee shall limit the emissions of pollutants from the drying hood burners to the following:

Pollutants	Emissions	
	lbs/hr	Tons/yr
Particulate Matter	0.36	1.15
Sulfur Dioxide (SO ₂)	0.04	0.11
Carbon Monoxide (CO)	6.00	19.06
Non-Methane	0.16	0.51
Total Organic Compound (NMTOC)		
Oxides of Nitrogen (NO _x)	4.80	15.24

Both the hourly limit (lb/hr) and annual limit (tons/yr) shall be calculated on a 12-month rolling basis.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code §129.112(g)(1)(i)]

The permittee may not cause, allow or permit NO_x to be emitted from this natural gas-fired combustion unit in excess of 0.10 lb NO_x/million Btu heat input.

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

The following emission limitations conditions apply to the operation of the Ducon Venturi scrubber, C17 used to control particulate from the dry end of Paper Machine 18, Source 104:

- (a). The emission of particulate matter for the stack of the scrubber shall be less than 0.01 grains/DSCF and 0.71 lb/hr.
- (b). The permittee shall, upon the Department's request, demonstrate the overall efficiency of the wet scrubber to be not less than 98%.

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

The permittee shall operate the drying hood burners only on commercial natural gas.

Throughput Restriction(s).**# 007 [25 Pa. Code §127.441]
Operating permit terms and conditions.**

The rebuilt paper machine shall produce single layered 'dry' crepe tissue. The maximum rated capacity shall be 209 metric tons/day and 76,300 metric tons/yr for any consecutive 12-month rolling sum period.

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

The maximum firing rate of the two burners together shall not exceed 58,250 SCFH of natural gas (60 MMBtu/hr). The total maximum fuel use shall be limited to 370 MMSCF per year for any consecutive 12-month rolling sum 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) and/or Section E (Source Group Restrictions).

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

A meter shall be placed on the natural gas line to the drying hood burners to measure the amount of natural gas, in SCF, combusted in the drying hood burners. The amount of natural gas used shall be compiled monthly for determination of compliance with throughput and emission limits in this permit.

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

The permittee shall monitor the water flow rate and the pressure drop across the scrubber on a daily basis.

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

The following monitoring conditions apply to the operation of the Ducon Venturi scrubber,C17, used to control particulate from the dry end of Paper Machine 18:

- (a). Equipment (a differential manometer or equivalent, as approved by the Department) shall be provided so that at the request of the Department the pressure drop, in inches w.g., across the scrubber can be measured.
- (b). Equipment (a rotameter or equivalent, as approved by the Department) shall be provided so that at the request of the Department the water flow rate, in gpm, to this scrubber can be measured.

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

The permittee shall keep records of the water flow rate and the pressure drop across the scrubber on a daily basis.

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

The permittee shall record on a daily basis the amount, in metric tons, of single layered 'dry/crepe tissue produced on Source 104. In addition,on an annual running total basis,the permittee shall maintain a running total, in metric tons, of the above tissue produced. The running total shall be maintained on an annual basis. The records shall be made available to the Department upon request.

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

The amount of natural gas, in SCF, combusted in the drying hood burners shall be recorded and maintained in a logbook for every calendar month.

V. REPORTING REQUIREMENTS.

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

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

The permittee shall perform an internal inspection of the venturi scrubber and dust collection systems for this source on a quarterly basis as per the manufacturer's specifications.

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

The permittee shall clean all dust extraction heads used in the dust collection system on a daily basis.

**SECTION D. Source Level Requirements****# 017 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The following work practice standards apply to the operation of the Ducon Venturi scrubber, C17, which is used to control particulate emissions on the dry end of Paper Machine 18, Source 104:

- (a). The scrubber shall be able to handle 51,800 cfm of gases and 35.6 lbs/hr of particulate loading.
- (b). The permittee shall maintain an operating pressure drop of 10 to 24 inches w.g. for this scrubber on any occasion that the sources are operated.
- (c). The permittee shall maintain a total water flow rate to this scrubber of at least 620 gpm on any occasion that the sources are operated.
- (d). The permittee shall not allow the scrubber to be bypassed when the paper machine is operated.

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

The sources covered are: Rebuilt Paper Machine No. 18, two (2) drying hood burners manufactured by Maxon Corporation, Ovenpak EB7 Series, and a wet scrubber manufactured by ABB Drying.

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

The different chemical agents used in the process of paper making, which include but are not limited to charge control, biocide, wet end additive, defoamer, felt wash, release agent, felt cleaner, and adhesive agent, shall be from the list submitted to the Department. The list may be modified, with chemical agents being added or deleted as long as any emission increase is de minimus in conformance with 25 Pa. Code §127.449.

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

The following paper machine components are covered by this Operating Permit in addition to drying hood burners and a wet scrubber.

- (a). Equipment venting to Source ID No. S06 (4 separate stacks total):
 - (1). Fan Pump and Screens, Headbox, and Forming Section share Mist Removal Exhaust.
 - (2). Press Section (Vacuum Pump Exhaust).
 - (3). Yankee Dryer (combustion exhaust).
 - (4). Yankee Pulper.
- (b). Sources Associated with the Wet Scrubber (Source ID No. C17)
 - (1). Yankee Dryer (paper throughput).
 - (2). Reel Section.
- (c). Other Equipment Associated with Source ID No. 104
 - (1). Machine Drive System.
 - (2). Furnish Chest.
 - (3). Steam Shower System.

**SECTION D. Source Level Requirements**

- (4). Save All Collection System and White Water Collection System.
- (5). Parent Rolls.

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

**SECTION D. Source Level Requirements**

Source ID: 110

Source Name: TURBINE #2 (ONLY)

Source Capacity/Throughput:

181.000 MCF/HR

Natural Gas

Conditions for this source occur in the following groups: 200

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

A. Except during startup and shutdown, the emissions from the gas turbine shall not exceed the limitations specified below. Tons per year (tpy) emissions are a twelve (12) month rolling sum and the pounds per hour (lb/hr) emissions are a 3-hour rolling average.

Pollutant	Emission Limits		
NOx*	5.18 tpy	10.22 lb/hr	15 ppmv @15% O2**
CO	5.26 tpy	10.37 lb/hr	25 ppmv @15% O2
VOC	0.59 tpy	1.16 lb/hr	
SO2	0.32 tpy	0.63 lb/hr	
PM10***	0.83 tpy	1.64 lb/hr	
PM2.5***	0.83 tpy	1.64 lb/hr	
PMtotal***	0.83 tpy	1.64 lb/hr	

* Compliance with this NOx emission concentration assures compliance with 40 CFR 60.4320(a).

** Pursuant to 40 CFR 60.4320(a) and Table 1 to Subpart KKKK of Part 60 when the turbine is operated at less than 0°F or at loads less than 75% of peak load the NOx limitation shall be 150 ppmvd at 15% O2 or 8.7 lb/MWh. Peak load is defined as the maximum energy input of 185 MMBtu/hr.

*** for PM10, PM2.5 and PMtotal, emissions limits are for filterable PM only.

**** Source ID 110 is an alternative operating scenario to Source ID 102. Source ID 110 is operation of the turbine in Source ID 102 in simple cycle mode without control by the SCR or oxidation catalyst.

DEP reserves the right to change these emission limits based upon the performance test results.

B. The following emission apply only during startup and shutdown periods:

Pollutant	Startup	Shutdown
NOx	3 lb/event	3 lb/event
CO	172 lb/event	169 lb/event
VOC	28 lb/event	22 lb/event

Startup operations begin once the startup process is initiated and ends once turbine operation stabilizes and the turbine

**SECTION D. Source Level Requirements**

reaches 50% load. Shutdown operations begin once the shutdown process is initiated and the turbine output falls below 50% load.

For sources 102 and 110, the combined start-ups shall not exceed fifty-five (55) events per year. A start-up event shall include a SoLoNOx event. A SoLoNOx event is defined as any time when the unit drops out of SoLoNOx (dry low NOx) mode due to load or other operational changes as identified by the unit's control system.

For sources 102 and 110, the combined shutdowns shall not exceed fifty-five (55) events per year.

Each startup is expected to last one hour and each shutdown half an hour.

002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4330]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What emission limits must I meet for sulfur dioxide (SO₂)?**

Pursuant to 40 CFR 60.4330(a)(1) this source must not cause to be discharged into the atmosphere from the subject stationary combustion turbine any gases which contain SO₂ in excess of 0.90 pounds per megawatt-hour (lb/MWh) gross output or comply with fuel sulfur content limit (0.060 lb SO₂/mmBtu) in 40 CFR 60.4330(a)(2).

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

(a) The permittee shall use only natural gas as a fuel for this source.

(b) The permittee shall limit the natural gas usage in the turbine so that the heat input to the diverted exhaust stack does not exceed 187,589 mmBtu/yr.

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

(a) The permittee shall perform a stack test using the Department-approved procedures once every five (5) calendar years, where five (5) calendar years is defined as beginning with the calendar year the latest stack test was performed and ending on December 31, five (5) years later. 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) The stack test shall, at a minimum, test for NO_x and CO. Tests shall be conducted in accordance with the provisions of EPA Method/s or other Department approved methodology and 25 Pa. Code Chapter 139.

(c) At least ninety (90) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

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

(e) Within sixty (60) days after the source test(s) (unless a more stringent regulatory requirement applies), an electronic copy of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

**SECTION D. Source Level Requirements**

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

(g) Subsequent stack testing, per pollutant, will be determined upon the review of the initial stack testing report.

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

(a) The permittee shall email all source test submissions (notifications, protocols, reports, supplemental information, etc.) to both the AQ Program Manager for the Southeast Regional Office and the PSIMS Administrator in Central Office (email addresses are provided below). Any questions or concerns about source testing submissions can be sent to RA-EPstacktesting@pa.gov and the PSIMS Administrator will address them.

Southeast Region
RA-EPSEstacktesting@pa.gov

Central Office
RA-EPstacktesting@pa.gov

(b) The following pertinent information shall be listed on the title page.

1. Test Date(s)

- a. For protocols, provide the proposed date on which testing will commence or "TBD"
- b. For reports, provide the first and last day of testing

2. Facility Identification Number (Facility - ID): For test programs that were conducted under a multi-site protocol, also include the PF ID under which the protocol was stored in PSIMS, as indicated in the protocol response letter.

3. Source ID(s) for the applicable source(s) and air pollution control device(s): The term Source ID is used in the permit but "Other Id" is used in DEP electronic systems. They are the same number and must also be listed for control equipment

4. Testing Requirements (all that apply)

- a. Plan approval number(s)
- b. Operating permit number
- c. Applicable federal subpart(s) (i.e. 40 CFR 60, Subpart JJJJ)
- d. Special purpose(s) (Consent Order, RFD, RACT III, Tier II, etc.)

(c) If confidential information must be submitted, submit both a public copy, which has been redacted, and a confidential copy. The cover page of each submittal should state whether it is a "Public Copy" or "Confidential Copy" and each page of the latter must be marked "CONFIDENTIAL".

006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4340]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****How do I demonstrate continuous compliance for NOX if I do not use water or steam injection?**

Pursuant to 40 CFR 60.4340(a), since the turbine will not use water or steam injection to control NOx emissions, the permittee will perform initial and subsequent annual performance tests on the turbine in accordance with 40 CFR 60.4400(a) and 40 CFR 60.4400(b)(4)&(6) to demonstrate continuous compliance. Subsequent annual NOx performance tests shall be conducted no more than 14 calendar months following the previous performance test. If the NOx emission result from the performance test is less than or equal to 75 percent of the NOx emission limit for the turbine (=18.75 ppm at 15% O2 or =0.9 lb/MW-hr), the permittee may reduce the frequency of subsequent performance tests to once every 2 years

**SECTION D. Source Level Requirements**

(no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75% of the NO_x emission limit, the permittee will be required to resume annual performance testing. Alternatively, the permittee may install, calibrate, maintain and operate a CEMS or CPMS per 60.4340(b).

The NO_x emission limit referred to above is from NSPS (25.0 ppm) not the BAT value specified in condition #001 (15 ppm).

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4400]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****How do I conduct the initial and subsequent performance tests, regarding NO_x ?**

The permittee shall conduct NO_x performance tests on an annual basis (no more than 14 calendar months following the previous performance test) except as noted in Condition #004 above.

008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.8]**Subpart A - General Provisions****Performance tests.**

Per 40 CFR 60.8(a), the initial NO_x performance tests for the new turbines are required to be conducted within 60 days after achieving the maximum production rate (i.e., the turbine's maximum rated heat output), but no later than 180 days after initial startup.

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

The permittee shall calculate the following emission from the gas turbine:

1) monthly NO_x, and CO emissions in tons per year on a 12-month rolling sum.

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

The permittee shall monitor the following operating parameters of the cogeneration unit:

- (a) natural gas consumption to the turbine through the use of a fuel meter.
- (b) hours of operation through the use of a non-resettable hour meter.
- (c) cumulative exhaust flow to the diverter stack through the use of a stack flow monitor.

IV. RECORDKEEPING REQUIREMENTS.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain records of the following operating parameters of the combustion turbine:

- (a) natural gas consumption to the turbine on a monthly basis, including 12-month rolling sums.
- (b) hours of operation on a Startup and Shutdown event basis.

**SECTION D. Source Level Requirements**

(c) cumulative exhaust flow on a monthly basis, including 12-month rolling sum.

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

(a) The permittee shall maintain records of NO_x and CO emissions from this unit in tons per year, on a 12-month rolling sums basis.

(b) The permittee shall maintain records of NO_x and CO emissions as determined during the most recent stack test, demonstrating compliance with each emission limit established for the gas combustion turbine listed in this permit.

013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4365]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****How can I be exempted from monitoring the total sulfur content of the fuel?**

Pursuant to 40 CFR 60.4365(a), in order to demonstrate continuous compliance with the applicable 0.060 lb/mmBtu potential SO₂ emissions limit, the permittee will utilize a current, valid purchase contract, tariff sheet or transportation contract for natural gas that will specify the maximum total sulfur content of the natural gas used at the facility is less than 20 grains per 100 standard cubic feet.

V. REPORTING REQUIREMENTS.**# 014 [25 Pa. Code §135.3]****Reporting**

Within thirty (30) days of issuance of the operating permit the permittee shall submit to the Department for approval the revised reporting formats.

015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4375]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What reports must I submit?**

Pursuant to 40 CFR 60.4375(b), since the permittee will be conducting annual performance testing in accordance with 40 CFR 60.4340(a). A written report of the results of each performance test will be submitted to DEP and the USEPA before the close of business on the 60th day following the completion of the performance test.

VI. WORK PRACTICE REQUIREMENTS.**# 016 [25 Pa. Code §123.31]****Limitations**

The permittee shall not emit any malodorous air contaminants in such a manner that malodors are detectable outside the facility boundary.

017 [25 Pa. Code §123.41]**Limitations**

The permittee shall not allow emissions to equal or exceed 20% opacity for more than 3 min/hr and may not equal or exceed 60% opacity at any time.

**SECTION D. Source Level Requirements****# 018 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

All online analyzer and flow meter shall be calibrated and maintained in good working order as per manufacturer's recommendation.

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

The permittee will conform to good combustion practices on this turbine to meet the CO emission rate of 25 ppm at 15% O₂.

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

The permittee shall operate and maintain this source according to the manufacturer's specifications and good air pollution control practices.

021 [25 Pa. Code §129.202]**Stationary combustion turbines.**

(a) By October 31 of each year, the permittee shall calculate the difference between the actual emissions from the unit for the period from May 1 through September 30, and the allowable emissions for the same period.

(b) The permittee shall calculate allowable emissions by multiplying the unit's cumulative heat input for the period by NO_x/MMBtu or 1.3 lbs NO_x/MWH.

022 [25 Pa. Code §129.204]**Emission accountability.**

(a) If the affected source(s) has NO_x CEMS, the permittee shall determine actual emissions in accordance with the CEMS data reported to the Department. Any data invalidated under Chapter 139 (relating to sampling and testing) shall be substituted with data calculated using the potential emission rate for the unit or, if approved by the Department in writing, an alternative amount of emissions that is more representative of actual emissions that occurred during the period of invalid data.

(b) If the permittee is not required to monitor NO_x emissions with a CEMS, one of the following shall be used to determine actual emissions of NO_x:

(1) The 1-year average emission rate calculated from the most recent permit emission limit compliance demonstration test data for NO_x.

(2) The maximum hourly allowable NO_x emission rate contained in the permit or the higher of the following:

(i) The highest rate determined by use of the emission factor for the unit class contained in the most up-to-date version of the EPA publication, "AP-42 Compilation of Air Pollution Emission Factors."

(ii) The highest rate determined by use of the emission factor for the unit class contained in the most up-to-date version of EPA's "Factor Information Retrieval (FIRE)" data system.

(3) CEMS data, if the permittee elects to monitor NO_x emissions with a CEMS. The permittee shall monitor emissions and report the data from the CEMS in accordance with Chapter 139 or Chapter 145 (relating to interstate pollution transport reduction). Any data invalidated under Chapter 139 shall be substituted with data calculated using the potential emission

**SECTION D. Source Level Requirements**

rate for the unit or, if approved by the Department in writing, an alternative amount of emissions that is more representative of actual emissions that occurred during the period of invalid data.

(4) An alternate calculation and recordkeeping procedure based upon emissions testing and correlations with operating parameters. The permittee shall demonstrate that the alternate procedure does not underestimate actual emissions throughout the allowable range of operating conditions. In regard to obtaining the Department's approval for an alternate calculation method and recordkeeping procedure for actual emissions, the permittee may request an adjustment to the allowable emissions calculations set forth in §§ 129.201—129.203. An allowable emission adjustment may not overestimate a unit's allowable emissions and must be based upon the parameters and procedures proposed in the alternate calculation method for actual emissions. The alternate calculation and recordkeeping procedures must be approved by the Department, in writing, prior to implementation.

023 [25 Pa. Code §129.204]**Emission accountability.**

(a) The permittee shall surrender to the Department one CAIR NOx allowance and one CAIR NOx Ozone Season allowance, as defined in 40 CFR 96.102 and 96.302 (relating to definitions), for each ton of NOx by which the combined actual emissions exceed the allowable emissions of the units subject to this section at a facility from May 1 through September 30. The surrendered allowances shall be of current year vintage. For the purpose of determining the amount of allowances to surrender, any remaining fraction of a ton equal to or greater than 0.50 ton is deemed to equal 1 ton and any fraction of a ton less than 0.50 ton is deemed to equal zero tons.

(b) If the combined allowable emissions from units subject to this section at a facility from May 1 through September 30 exceed the combined actual emissions from units subject to this section at the facility during the same period, the permittee may deduct the difference or any portion of the difference from the amount of actual emissions from units subject to this section at the permittee's other facilities.

(c) By November of each year, the permittee shall surrender the required NOx allowances to the Department's designated NOx allowance tracking system account and provide to the Department, in writing, the following:

- (1) The serial number of each NOx allowance surrendered.
- (2) The calculations used to determine the quantity of NOx allowances required to be surrendered.

(d) If the permittee fails to comply with subsection (c), the permittee shall by December 31 surrender three NOx allowances of the current or later year vintage for each NOx allowance that was required to be surrendered by November 1 of that year.

(e) The surrender of NOx allowances under subsection (d) does not affect the liability of the permittee for any fine, penalty or assessment, or an obligation to comply with any other remedy for the same violation, under the CAA or the act.

- (1) For purposes of determining the number of days of violation, if a facility has excess emissions for the period May 1 through September 30, each day in that period (153 days) constitutes a day in violation unless the permittee demonstrates that a lesser number of days should be considered.
- (2) Each ton of excess emissions is a separate violation.

[Note: On July 6, 2011, EPA promulgated the Cross-State Air Pollution Rule (CSAPR) to replace CAIR. The CSAPR provisions of 40 CFR Part 97, Subpart AAAAA (relating to CSAPR NOx Annual Trading Program), replaced the provisions of 40 CFR Part 96, Subpart AA (relating to CAIR NOx Annual Trading Program General Provisions), and remain in effect. On October 26, 2016, EPA promulgated the CSAPR Update to establish the provisions of 40 CFR Part 97, Subpart EEEEE (relating to CSAPR NOx Ozone Season Group 2 Trading Program), to replace the previously-established CAIR NOx Ozone Season Trading Program and CSAPR NOx Ozone Season Group 1 Trading Program for certain states, including Pennsylvania, beginning with the 2017 ozone season. On April 30, 2021, EPA promulgated the Revised CSAPR Update to establish the provisions of 40 CFR Part 97, Subpart GGGGG (relating to CSAPR NOx Ozone Season Group 3 Trading Program), to replace the provisions of 40 CFR Part 97, Subpart EEEEE, for certain states, including Pennsylvania, beginning with the 2021 ozone season (though DEP will accept CSAPR NOx Ozone Season Group 2 allowances of current year vintage from other states, if available). As described in 40 CFR 52.38(b)(2)(ii)(D), the requirements of 40 CFR 97 Subpart

**SECTION D. Source Level Requirements**

GGGGG are currently stayed. Accordingly, the permittee shall surrender CSAPR NO_x Annual allowances and either CSAPR NO_x Ozone Season Group 2 allowances or CSAPR NO_x Ozone Season Group 3 allowances, as defined in 40 CFR §§ 97.402, 97.802, and 97.1002, respectively, instead of the CAIR NO_x allowances and CAIR NO_x Ozone Season allowances indicated in 25 Pa. Code § 129.204(c), as the latter are no longer available.]

024 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4333]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What are my general requirements for complying with this subpart?**

Pursuant to 40 CFR 60.4333(a), the turbines and their monitoring equipment will be maintained in a manner that is consistent with good air pollution control practices for minimizing emissions. This requirement applies at all times including during startup, shutdown, and malfunction.

VII. ADDITIONAL REQUIREMENTS.**# 025 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

This source consists of a gas turbine manufactured by Solar, Model Titan 130. The rated heat input for the gas turbine is 185 mmBtu/hr and the Serial Number is KG1913. The unit operates with a dry low NO_x burner.

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

Operation of the diverter stack shall be limited to a cumulative exhaust flow of 6,300 MMscf/yr.

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

Source ID 110 is an alternative operating scenario to Source ID 102. Source ID 110 is operation of the turbine in Source ID 102 in simple cycle mode without control by the SCR or oxidation catalyst.

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

**SECTION D. Source Level Requirements**

Source ID: 124

Source Name: PAPER MACHINE 12

Source Capacity/Throughput:

34.000 MMBTU/HR

5.875 Tons/HR

PAPERSHEETING

33.010 MCF/HR

Natural Gas

Conditions for this source occur in the following groups: SG004

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

No person shall permit the emission into the outdoor atmosphere of particulate matter from burners of the Paper Machine No. 12 dryer hoods in such a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains./dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

No person shall permit the emission into the outdoor atmosphere of sulfur oxides from the burners of the Paper Machine No. 12 dryer hoods in such a manner that the concentration of sulfur oxides, expressed as sulfur dioxide, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

The permittee shall limit the emissions of NO_x and VOC from the burners of the Paper Machine No. 12 dryer hoods to the following level: NO_x shall be limited to 0.1 lb/MMBtu (i.e., 3.40 lb/hr; 11.84 tons/yr for any consecutive 12-month rolling sum period) and VOC shall limited to to 0.09 lb/hr; 0.32 ton/yr for any consecutive 12-month rolling sum period.

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

The permittee shall limit the emissions of the following criteria pollutants from the burners of the Paper Machine No. 12 dryer hood to the following maximums:

Particulate Matter (PM ₁₀)	0.20 lb/hr	0.71 tons/yr
Sulfur Dioxide (SO ₂)	0.02 lb/hr	0.07 tons/yr
Carbon Monoxide (CO)	1.16 lb/hr	4.02 tons/yr

Both the hourly (lb/hr) and annual limit (tons/yr) shall be calculated on a 12-month rolling basis.

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

The emission of particulate matter from the scrubber shall be limited to less than 0.02 grains/dscf. The scrubber system associated with this source shall have an hourly particulate matter emission limit of 0.58 pounds per hour and an annual particulate matter emission limit of 2.56 tons per year for any consecutive 12-month rolling period.

Compliance with the 30-day block average tissue production rate will assure compliance with the 0.58 pounds per hour emission limit.

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

The permittee shall limit pre-control total particulate matter (PM) emissions to 99.0 tpy.

Fuel Restriction(s).**# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall use only natural gas as fuel in the burners.

Throughput Restriction(s).**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The peak rated heat capacity of the burners shall be 17.0 MMBtu/hr each. The maximum firing rate of the two burners shall cumulatively not exceed 33,010 SCFH of natural gas. The total maximum fuel use shall be limited to 230 MMSCF per year for any consecutive 12-month rolling sum period.

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

The permittee shall limit the 30-operating day block average hourly tissue production rate to 5.875 tons per hour.

Control Device Efficiency Restriction(s).**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a). The venturi scrubber associated with this source shall have a control efficiency for particulate matter of 98 percent.

(b). The recirculation flow rate of scrubbing fluid through the venturi scrubber shall be maintained within the range of 180 gallons per minute and 240 gallons per minute.

(c). The pressure differential across the system between the inlet of the venturi scrubber associated with this source and the separator tank shall not be less than 9.25 inches water gauge.

(d). The permittee shall adhere to the approved range for the selected operational parameters in paragraphs (b) and (c) above so that operation within the range shall provide reasonable assurance of compliance. A departure from the specified indicator range shall be defined as an excursion.

**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) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The owner or operator shall monitor the following approved operational standards for performance of the venturi scrubber associated with this source when this source is in operation:

- (a). The pressure differential from the inlet to the venturi scrubber to the separator tank on a daily basis.
- (b). The flow rate of the recirculation water on a daily basis.

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

The permittee shall install, operate and maintain a meter on the natural gas line to the burners in order to measure the amount, in SCF, of natural gas consumed in the Paper Machine No. 12 drying hoods. The amount of natural gas used shall be compiled monthly for determination of compliance with throughput and emission limits in this permit.

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

The permittee shall monitor the operating time and tissue production daily.

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

The owner or operator shall keep records of the following approved operational standards for performance of the venturi scrubber associated with this source when this source is in operation:

- (a). The pressure differential from the inlet to the venturi scrubber to the separator tank on a daily basis.
- (b). The flow rate of the recirculation water on a daily basis.

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

The permittee shall record all inspections, quality assurance and control tests, repair, and maintenance performed on the recirculation flow meter and pressure gauges used to monitor the performance of the wet scrubber associated with this source.

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

The permittee shall record all inspections and/or maintenance that was performed on equipment listed under this source and the scrubber associated with this source.

**SECTION D. Source Level Requirements****# 017 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain a record of the natural gas consumed in the Paper Machine No. 12 dryer hood in a logbook for every calendar month.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code §§129.115(i)&(k)]

The owner or operator of a combustion unit or process heater subject to § 129.112(b) shall record each adjustment conducted under the procedures in § 129.112(b). This record must contain, at a minimum:

- (1) The date of the tuning procedure.
- (2) The name of the service company and the technician performing the procedure.
- (3) The final operating rate or load.
- (4) The final NO_x and CO emission rates.
- (5) The final excess oxygen rate.
- (6) Other information required by this operating permit.

The records shall be retained by the owner or operator for 5 years and made available to the Department or appropriate approved local air pollution control agency upon receipt of a written request from the Department or appropriate approved local air pollution control agency.

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

After each 30-operating days the permittee shall calculate and record the 30-operating day block average hourly tissue production rate.

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

The permittee shall calculate and record the monthly and 12-month rolling post-control total PM emissions based upon: 1) monthly tissue production records, 2) a (16.915 lbs total PM)/(4.7 tons tissue Production) pre-control PM emission factor and 3) a 98% PM removal efficiency.

V. REPORTING REQUIREMENTS.

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

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 021 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a). The owner or operator shall operate and maintain an electronic flow meter for measuring the recirculation flow rate of fluid through the venturi scrubber associated with this source.

(b). The owner or operator shall operate and maintain an electronic pressure gauge to measure the pressure differential across the system from the inlet to the venturi scrubber associated with this source to the separator tank.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code §129.112(b)(1)(i)]

The permittee shall comply with the following:

The presumptive RACT requirement for a combustion unit with a rated heat input equal to or greater than 20 million Btu/hour and less than 50 million Btu/hour, which is the performance of a biennial tune-up conducted in accordance with the procedures in 40 CFR 63.11223 (relating to how do I demonstrate continuous compliance with the work practice and management practices standards).

(A) Each biennial tune-up shall occur not less than 3 months and not more than 24 months after the date of the previous tune-up.

(B) The biennial tune-up must include, at a minimum, the following:

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

(ii) Inspection of the flame pattern and adjustment of the burner, as necessary, to optimize the flame pattern to minimize total emissions of NO_x and, to the extent possible, emissions of CO.

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

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

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

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

The venturi scrubber system (Source ID No. C11) associated with the operation of the Yankee Dryer and the reel in Source ID No.124 shall not be bypassed when this source is in operation.

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

The collected particulate matter (paper dust) shall either be re-used on the paper machine or sent to the facility's process wastewater system.

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

The two identical burners - Maxon Corporation, Model No. EB-7 burners each rated at 17.0 MM Btu/hr, shall supply hot drying air to the drying hoods of paper machine No. 12.

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

The permittee shall utilize this source in a manner consistent with good operating and maintenance practice.

028 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The owner or operator shall maintain and operate this source and associated venturi scrubber in accordance with manufacturer's specifications and good engineering practice.

VII. ADDITIONAL REQUIREMENTS.**# 029 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source ID No. 124 includes, but is not limited to, the following equipment:

(a). Equipment venting through Source ID No. S24 (4 separate stacks total):

- (1). The Fan Pump Screens, the Head Box, and the Forming Section vent through the same Mist Removal System to the atmosphere.
- (2). The Press Section.
- (3). The Yankee Dryer (combustion exhaust).
- (4). The Yankee Pulper.

(b). Equipment venting to Source ID No. C11:

- (1). The Yankee Dryer (paper throughput).
- (2). The Reel.

(c). Other Equipment:

- (1). The Machine Chest.
- (2). The Parent Roll.

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

This Paper Machine includes two (2) identical burners - Maxon Corporation, Model No. EB-7 burners each rated at 17.0 MM Btu/hr.

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

**SECTION D. Source Level Requirements**

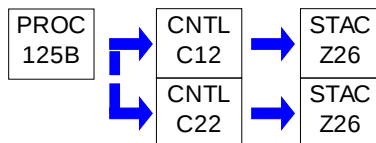
Source ID: 125B

Source Name: PCMC CONVERTING AREA

Source Capacity/Throughput:

10.400 Tons/HR

TISSUE PAPER

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

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from this source at any time, in excess of 0.04 grains per dry standard cubic foot, pursuant to 25 Pa. Code § 123.13 (c)(1)(i).

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.

- (a). The permittee shall monitor the pressure drop across each baghouse for this source on a daily basis.
- (b). After six months, the permittee, with the Department's approval, may monitor the pressure drop across each baghouse on a weekly basis if the Preventative Maintenance Schedule for each baghouse shows compliance with the emission limitations set for this source.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the inspections of each baghouse of this source on a monthly basis.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a). The permittee shall keep records of the pressure drop across the baghouse for each source on a daily basis.
- (b). After six months, the permittee, with the Department's approval, may monitor the pressure drop across each baghouse on a weekly basis if the Preventative Maintenance Schedule for each baghouse shows compliance with the emission limitations set for this source.

V. REPORTING REQUIREMENTS.

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

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

The permittee shall inspect each baghouse for this source on a monthly basis.

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

The permittee shall maintain the pressure drop across each baghouse for Source ID 125B between 1 and 7 inches water gauge.

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION D. Source Level Requirements**

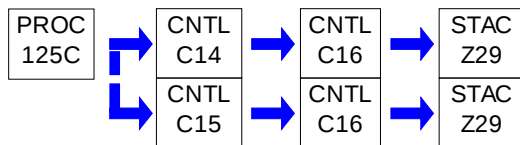
Source ID: 125C

Source Name: PERINI CONVERTING AREA

Source Capacity/Throughput:

5.700 Tons/HR

TISSUE PAPER

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The two (2) converting lines, two (2) fabric collectors and venturi scrubber shall emit particulate matter of less than 0.01 grains/DSCF, and 0.63 tons/yr for any consecutive 12-month rolling sum basis.

Throughput Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The annual capacity of each converting line shall be limited to 25,000 machine dry tons per year (MDT/yr) for a total of 50,000 MDT/yr for the two new converting lines. The annual limits (tons/yr) shall be calculated on a 12-month rolling basis.

II. TESTING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall, upon the the Department's request, demonstrate the overall efficiency of the venturi scrubber to be not less than 98%.

III. MONITORING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The following monitoring requirements apply to the operation of the venturi scrubber manufactured by Ducon Environmental Systems, Inc.:

(a). Equipment (a differential manometer or equivalent, as approved by the Department), shall be installed, operated and maintained so that at the request of the Department the pressure drop across the throat of the scrubber can be measured.

(b). Equipment (a rotameter or equivalent, as approved by the Department) shall be installed operated and maintained so that at the request of the Department the water flow rate to venturi scrubber can be measured.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following parameters for the control devices used in this source:

**SECTION D. Source Level Requirements**

- (a). The pressure drop across the fabric filter on a daily basis for 6 months. If at that time the permittee has demonstrated that the preventative maintenance schedule for the filters shows compliance with the emissions limitations, then the permittee, upon approval of the Department, may change the frequency of monitoring of the pressure drop across the fabric filter to weekly.
- (b). The pressure drop across the scrubber on a daily basis.
- (c). Water flow rate across the scrubber on a daily basis.
- (d). The temperature of the water flowing into the scrubber on a daily basis.
- (e). The capacity of each converting line on a monthly basis.

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

The permittee shall install, maintain and operate individual photohelic gauges/switches Model No. 3005, or equivalent, for monitoring the pressure differential across each fabric collector filter unit (primary, secondary and tertiary).

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

The permittee shall keep records of the following parameters for the control devices used in this source:

- (a). The pressure drop across the fabric filter on a daily basis for 6 months. If at that time the permittee has demonstrated that the preventative maintenance schedule for the filters shows compliance with the emissions limitations, then the permittee, upon approval of the Department, may change the frequency of recordkeeping for the pressure drop across the fabric filter to weekly.
- (b). The pressure drop across the scrubber on a daily basis.
- (c). Water flow rate across the scrubber on a daily basis.
- (d). The temperature of the water flowing into the scrubber on a daily basis.
- (e). The capacity of each converting line on a monthly basis.

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

The permittee shall keep records on file that demonstrate the flow rate of gases through the scrubber associated with this source does not exceed 3,000 acfm.

V. REPORTING REQUIREMENTS.

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

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall change the filters for the drum filter when the pressure drop across the drum filter exceeds 5" w.c. The permittee shall change filters for the secondary unit when the pressure drop across this unit exceeds 3" w.c. The permittee shall change the filters for the tertiary unit shall be changed when the pressure drop across this unit exceeds 2" w.c.

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

The following work practice standards apply to the operation of the venturi scrubber manufactured by Ducon Environmental Systems, Inc.:

- (a). The venturi scrubber shall be able to handle 3,000 ACFM of gases.
- (b). An operating pressure drop range of 2 inches water gauge to 10 inches water gauge across the venturi scrubber shall be maintained on any occasion that the sources are operated.
- (c). A water flow rate to venturi scrubber of at least 33.7 gpm at a temperature not exceeding 100°F shall be maintained for the venturi scrubber on any occasion that the sources are operated.

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

The permittee shall maintain on site a sufficient quantity of filters for the two fabric collectors manufactured by HVAC Filters, Inc., Model No. D9-8 associated with Source 125C (the two Perini Converting Lines) in order to be able to immediately replace any filters requiring replacement.

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

The permittee shall equip each fabric collector system with one stack and the venturi scrubber shall have its own stack (total of three stacks for the two converting lines).

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

The conditions that follow apply to the operation of two (2) converting lines manufactured by Perini, two fabric collectors manufactured by HVAC Filters, Inc., Model No. D9-8 and one venturi scrubber manufactured by Ducon Environmental Systems, Inc.

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION D. Source Level Requirements**

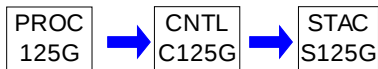
Source ID: 125G

Source Name: ST-1 CONVERTING AREA W/ TWO AIR HANDLING UNITS

Source Capacity/Throughput:

12.900 Tons/HR

TISSUE PAPER

**I. RESTRICTIONS.****Operation Hours Restriction(s).**

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The two Air Handling Units listed under this source shall be operated only when the venturi scrubbers listed under Source ID No. C125G are in operation.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the throughput of tissue paper for each PCMC Winder that is in operation on a monthly basis.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the pressure drop across each air handling unit listed under this source on a daily basis when the source is in operation.

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the throughput of tissue paper for each PCMC Winder that is in operation on a monthly basis.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the pressure drop across each air handling unit listed under this source on a daily basis when the source is in operation.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of all inspections and/or maintenance that is performed on the equipment listed under this source. The records shall include date and time of the inspection and/or maintenance and a description of the action taken.

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

(a). The permittee shall maintain the pressure drop across the combined drum filter and the cartridge filter in each air handling unit between 0.8 and 8.0 inches water gauge.

(b). In the event the permittee exceeds the drop of 8.0 inches water gauge, the air handling unit will be shut down for evaluation and cleaning. It will be re-started once it has been restored to proper operating standards.

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

The permittee shall install, operate, and maintain the equipment listed under this source in accordance with manufacturers' specifications.

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

The permittee shall equip each air handling unit listed under this source with differential manometers or equivalent to measure the pressure drop across both the drum filter and the cartridge filters associated with each air handling unit. The differential manometers, or equivalent, shall be located in an area accessible to Department personnel to record measurements during inspections of this source.

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

The permittee shall inspect and/or maintain the equipment listed under this source on at least a monthly basis.

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

The permittee shall keep on hand a sufficient quantity of spare drum filters and cartridge filters in order to immediately replace any filters requiring replacement due to deterioration resulting from routine operation of this filter and the source associated with this filter.

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

Source ID No. 125G shall include the following equipment, or equivalent:

- (a). Eight (8) PCMC Winders with hoods.
- (b). Two (2) Air Handling Units (each air handling unit pulls 40,000 standard cubic foot of particulate laden air from four (4) PCMC Winders and returns 39,400 to 39,550 standard cubic feet per minute to the ST-1 Converting Area).
- (c). Each Air Handling Unit contains a drum filter and a compartment of 64 cartridge filters.

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

**SECTION D. Source Level Requirements**

Source ID: 126A

Source Name: FILTERED WATER TREAT PLT

Source Capacity/Throughput:

1.042 M Gal/HR

RIVER WATER

PROC
126ASTAC
Z15**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.**# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall analyze the chemical flocculents used in the filtered water treatment plant for volatile organic compounds (VOCs) using EPA Method 24.

(b) The VOC content of the chemical flocculents may also be determined from the Safety Data Sheets (SDS) of the chemical flocculents provided the SDS states that EPA Method 24 was used to determine the VOC content.

Note: 1) These SDS are undated annually and 2) all VOC in this chemical shall be assumed to be emitted into the atmosphere during VOC emission calculations.

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

The permittee shall monitor the amount of each flocculent used in the filtered water treatment plant on a monthly basis.

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

The permittee shall keep records of the following:

(a). The amount of each flocculent used in the filtered water treatment plant on a monthly basis.

(b). The calculations for the emissions of VOCs for each flocculent on a monthly basis.

(c). The calculations for the total VOC emissions on a 12-month rolling basis.

(d). The permittee shall assume that all VOC in this chemical is emitted into the atmosphere in the calculation of VOC emissions.

V. REPORTING REQUIREMENTS.

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

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

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

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION D. Source Level Requirements**

Source ID: 131

Source Name: 350 KW GENERATOR

Source Capacity/Throughput:

24.400 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: SG001

PROC
131STAC
S15**I. RESTRICTIONS.****Fuel Restriction(s).**

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use diesel fuel in this source.

002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6604]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**What fuel requirements must I meet if I own or operate an existing stationary CI RICE?**

In accordance with 40 CFR §63.6604(b) if this source is contractually obligated to operate for the purpose specified in 40 CFR §63.6640(f)(4)(ii), you must use diesel fuel that meets the requirements in 40 CFR 1090.305 for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted.

Operation Hours Restriction(s).

003 [25 Pa. Code §129.112]

Presumptive RACT requirements, RACT emission limitations and petition for alternative compliance schedule

The permittee shall not operate this emergency engine more than 500 hours in any 12 consecutive month period.

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?**

(a) The permittee shall operate the emergency stationary R.I.C.E. according to the requirements in the most recent version of 40 C.F.R. Section 63.6640(f).

(b) If the permittee does not operate the engine according to the requirements of 40 C.F.R. Section 63.6640(f), the engine will not be considered an emergency engine under 40 C.F.R. Part 63 Subpart ZZZZ and must meet all requirements for nonemergency engines

Throughput Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The maximum firing rate for this 350 KW emergency generator shall be limited to 24.4 gph.

**SECTION D. Source Level Requirements****II. TESTING REQUIREMENTS.****# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

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

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

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

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.**# 007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What records must I keep?**

In accordance with 40 CFR 63.6655(e)(2)&(3) the permittee shall keep records of the maintenance conducted on this stationary RICE in order to demonstrate that you operated and maintained the stationary RICE according to your own maintenance plan.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What records must I keep?**

In accordance with 40 CFR §63.6655(f) the permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in §63.6640(f)(4)(ii) the owner or operator must keep records of the notification of the emergency situation and the date, start time and end time of engine operation for these purposes.

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6660]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****In what form and how long must I keep my records?**

The permittee's records shall comply with the following requirements:

(a) Your records must be in a form suitable and readily available for expeditious review according to 40 CFR §63.10(b)(1).

**SECTION D. Source Level Requirements**

(b) As specified in 40 CFR §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR §63.10(b)(1).

V. REPORTING REQUIREMENTS.**# 010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?**

In accordance with 40 CFR 63.6640(b) the permittee shall report each instance in which you did not meet each operating limitation in 40 CFR Part 63 Subpart ZZZZ Table 2d, item 4. These instances are deviations from the operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?**

In accordance with 40 CFR 63.6640(e) the permittee shall report each instance in which you did not meet the requirements in 40 CFR Part 63 Subpart ZZZZ Table 8 that apply to you.

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

In accordance with 25 Pa. Code 129.112(c), the permittee shall maintain and operate the source in accordance with the manufacturer's specifications and with good operating practices.

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6603]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?**

a). In accordance with 40 CFR 63.6603(a) the permittee shall perform the following for this source as specified in Table 2d for emergency RICE in 40 C.F.R. Part 63, Subpart ZZZZ:

(1). Change oil and filter every 500 hours of operation or annually within 1 year + 30 days of the previous change, whichever comes first. The owner or operator of the source has the option to utilize an oil analysis program as described in paragraph (b) below in order to extend the specified

oil change requirement in Table 2d of 40 C.F.R. Part 63, Subpart ZZZZ.

(2). Inspect air cleaner every 1,000 hours of operation or annually within 1 year + 30 days of the previous change, whichever comes first, and replace as necessary;

(3). Inspect all hoses and belts every 500 hours of operation or annually within 1 year + 30 days of the previous change, whichever comes first, and replace as necessary.

**SECTION D. Source Level Requirements**

(b). In accordance with 40 C.F.R. § 63.6625(i) for a stationary CI engine that is subject to the work, operation or management practices in item 4 of Table 2d to 40 C.F.R. Part 63, Subpart ZZZZ, the permittee may have the option of utilizing an oil analysis program in order to extend the specified oil change requirement paragraph (a)(1) above. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2d to 40 C.F.R. Part 63, Subpart ZZZZ. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program shall be part of the maintenance plan for the engine.

(c). The permittee can petition the Administrator pursuant to the requirements of 40 C.F.R. § 63.6(g) for alternative work practices.

014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

In accordance with 40 CFR §63.6625(e) the permittee shall operate and maintain this source according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

In accordance with 40 CFR 63.6625(h) the permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

In accordance with 40 CFR 63.6625(f) the permittee shall install a non-resettable hour meter if one is not already installed.

017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?**

In accordance with 40 CFR 63.6640(a) the permittee shall demonstrate continuous compliance with the requirement in Table 2d item 4 to 40 CFR Part 63 Subpart ZZZZ according to method specified in Table 6, item to this subpart as stated

**SECTION D. Source Level Requirements**

below:

- i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or
- ii. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION D. Source Level Requirements**

Source ID: 149

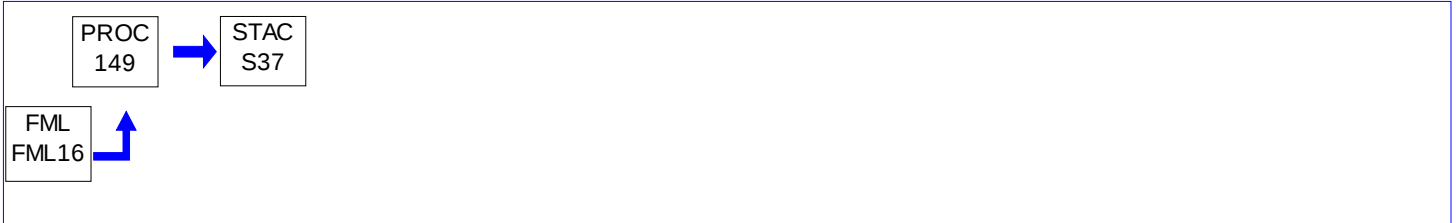
Source Name: THREE (3) EMERGENCY GENERATORS (500 KW EACH)

Source Capacity/Throughput:

31.200 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: SG001

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

001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4202]
Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
What emission standards must I meet for emergency engines if I am a stationary CI internal combustion engine manufa

Air contaminant emissions rates (on a per engine basis) shall not exceed any of the following:

- (a) NO_x + NMHC 6.4 g/kW-hr (4.8 g/hp-hr)
- (b) CO 3.5 g/kW-hr (2.6 g/hp-hr)
- (c) PM 0.2 g/kW-hr (0.15 g/hp-hr)

Fuel Restriction(s).

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

This source shall only combust ultra-low sulfur diesel fuel.

003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4207]
Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to

This source shall use diesel fuel which meets the following requirements:

Sulfur content:
15 ppm maximumCetane index or aromatic context:
A minimum cetane index of 40 or
A maximum aromatic context of 35 volume percent**Operation Hours Restriction(s).**

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

The permittee shall not operate this emergency engine more than 500 hours in any 12 consecutive month period.

**SECTION D. Source Level Requirements**

005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]
Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?

(a) The permittee shall operate the emergency stationary R.I.C.E. according to the requirements in the most recent version of 40 C.F.R. Section 60.4211(f).

(b) If the permittee does not operate the engine according to the requirements of 40 C.F.R. Section 60.4211(f), the engine will not be considered an emergency engine under 40 C.F.R. Part 60 Subpart III and must meet all requirements for nonemergency engines.

II. TESTING REQUIREMENTS.

006 [25 Pa. Code §139.16]
Sulfur in fuel oil.

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

- (1) The fuel oil sample for chemical analysis shall be collected in a manner that provides a representative sample. Upon the request of a Department official, the person responsible for the operation of the source shall collect the sample employing the procedures and equipment specified in 25 Pa. Code § 139.4(10) (relating to references).
- (2) Tests methods and procedures for the determination of sulfur shall be those specified in 25 Pa. Code § 139.4(12)--(15).
- (3) Results shall be reported in accordance with the units specified in 25 Pa. Code § 123.22 (relating to combustion units).

(b) The testing requirements in subpart (a), above, shall be waived in the event that a delivery receipt from the supplier, showing the percent sulfur in the fuel is less than 15 ppm by weight, is obtained each time a fuel oil delivery is made.

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

The permittee shall maintain records of the fuel supplier receipts, indicating the sulfur content and the cetane index or aromatic content limit meets the requirements of 40 C.F.R. 1090.305.

[40 CFR 60.4207(b)]

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

The permittee shall keep a record of the engine certification, indicating compliance with the emissions limits in Condition No. 001.

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

For each engine the permittee shall record the hours of emergency and non-emergency operation and the total hours on a

**SECTION D. Source Level Requirements**

monthly and 12-month rolling basis.

010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4214]**Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?

(a) The permittee shall keep records of time of operation of these engines in emergency and non-emergency service.

(b) The permittee shall record the time of operation of the engines and the reason the engines were in operation during that time.

V. REPORTING REQUIREMENTS.**# 011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4214]****Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?

The permittee shall submit reports in accordance with 40 CFR 60.4214(d) if the engine operates for the purpose specified in § 60.4211(f)(3)(i).

[40 CFR 60.4214(d)]

VI. WORK PRACTICE REQUIREMENTS.**# 012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4209]****Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

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

The permittee shall install a non-resettable hour meter on each engine.

013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]**Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

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

The permittee shall purchase an engine certified to the emission standards in 40 CFR §60.4205(b) for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications.

014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]**Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

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

The permittee shall:

- (1) Operate and maintain the stationary CI internal combustion engine according to the manufacturer's emission-related written instructions;
- (2) Change only those emission-related settings that are permitted by the manufacturer; and
- (3) Meet the requirements of 40 CFR Part 1068, as they apply to the permittee.

**SECTION D. Source Level Requirements**

[40 CFR 60.4211(a)]

015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]

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

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

If the permittee does not install, configure, operate, and maintain these engines according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:

The permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. You must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

Any required performance test shall be conducted in accordance with 40 CFR 60.4212.

VII. ADDITIONAL REQUIREMENTS.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of three (3) Generac Model MD500 diesel-fired IC emergency generator sets. Each generator is rated at 500 kW and utilizes a 762 bhp diesel fired engine.

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

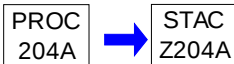
**SECTION D. Source Level Requirements**

Source ID: 204A

Source Name: EXEMPT FIRE PUMP

Source Capacity/Throughput:

Conditions for this source occur in the following groups: SG001

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

The permittee shall limit the NO_x emissions from this exempt engine to less than 100 lbs/hr, 1000 lbs/day, 2.75 tons per ozone season and 6.6 tons per year on a 12-month rolling basis.

002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4205]**Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal co**

Air contaminant emissions rates shall not exceed any of the following:

- (a) NO_x + NMHC 4.0 g/kW-hr (3.0 g/hp-hr)
- (b) CO 3.5 g/kW-hr (2.6 g/hp-hr)
- (c) PM 0.2 g/kW-hr (0.15 g/hp-hr)

[40 CFR 60.4205(c)]

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

This source shall only combust ultra-low sulfur diesel fuel.

004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4207]**Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to**

This source shall use diesel fuel which meets the following requirements:

Sulfur content:

15 ppm maximum

Cetane index or aromatic context:

A minimum cetane index of 40 or

A maximum aromatic context of 35 volume percent

[40 CFR 60.4207(b)]

**SECTION D. Source Level Requirements****Operation Hours Restriction(s).**

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

The permittee shall not operate this emergency fire pump more than 500 hours in any 12 consecutive month period.

006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]
Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?

(a) The permittee shall operate the emergency stationary R.I.C.E. according to the requirements in the most recent version of 40 C.F.R. Section 60.4211(f).

(b) If the permittee does not operate the engine according to the requirements of 40 C.F.R. Section 60.4211(f), the engine will not be considered an emergency engine under 40 C.F.R. Part 60 Subpart III and must meet all requirements for nonemergency engines.

II. TESTING REQUIREMENTS.

007 [25 Pa. Code §139.16]
Sulfur in fuel oil.

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

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

(2) Test methods and procedures for the determination of viscosity shall be that specified in 25 Pa. Code § 139.4(11) (relating to references). The viscosity shall be determined at 100°F.

(3) Tests methods and procedures for the determination of sulfur shall be those specified in 25 Pa. Code § 139.4(12)--(15) and (20).

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

III. MONITORING REQUIREMENTS.

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

The permittee shall monitor the NO_x emissions from this engine including pounds per hour, pounds per day, ozone season (i.e., the period from May 1 through September 30 of each year) sum, and 12-month rolling sum to demonstrate compliance with the NO_x emission limits applicable to this source.

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

The permittee shall monitor the hours of operation and calculate the total operating hours on a monthly and 12-month rolling basis.

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain records of the fuel supplier receipts, indicating the sulfur content and the cetane index or aromatic content limit meets the requirements of 40 C.F.R. 1090.305.

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

The permittee shall keep a record of the engine certification, indicating compliance with the emissions limits in Condition No. 001.

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

The permittee shall record the total hours of operation on a monthly and 12-month rolling basis.

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

The permittee shall maintain records of the NO_x emissions from this exempt engine on site including pounds per hour, pounds per day, ozone season (i.e., the period from May 1 through September 30 of each year) sums, and 12-month rolling sums to demonstrate compliance with the NO_x emission limits applicable to this source.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.**# 014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4206]****Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****How long must I meet the emission standards if I am an owner or operator of a stationary CI internal combustion engine?**

The permittee must operate and maintain this stationary CI ICE to achieve the emission standards as required in § 60.4205(c) over the entire life of the engine.

015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]**Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

The permittee shall purchase an engine certified to the emission standards in 40 CFR §60.4205(c) for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications.

[40 CFR 60.4211(c)]

016 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]**Subpart III - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

**SECTION D. Source Level Requirements**

The permittee shall:

- (1) Operate and maintain the stationary CI internal combustion engine according to the manufacturer's emission-related written instructions;
- (2) Change only those emission-related settings that are permitted by the manufacturer; and
- (3) Meet the requirements of 40 CFR Part 1068, as they apply to the permittee.

[40 CFR 60.4211(a)]

017 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]

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

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

If the permittee does not install, configure, operate, and maintain this engine according to the manufacturer's emission-related written instructions, or the permittee changes emission-related settings in a way that is not permitted by the manufacturer, the permittee must demonstrate compliance as follows:

The permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. You must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

[40 CFR 60.4211(g)]

VII. ADDITIONAL REQUIREMENTS.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source was installed in August of 2024 and consists of one (1) Peerless Pump, Model 8AEF15, diesel-fired IC Fire Pump. This pump utilizes a 175 hp diesel fired engine, model JU4H-UFAD98, manufactured by Clarke Fire.

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

**SECTION D. Source Level Requirements**

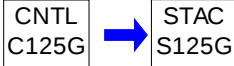
Source ID: C125G

Source Name: ST-1 CONVERTING AREA AHU VENTURI SCRUBBER (2 TOTAL)

Source Capacity/Throughput:

5.200 Lbs/HR

TISSUE PAPER

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

- (a). The permittee shall limit the concentration of particulate matter in the effluent from each venturi scrubber listed under this source to less than 0.02 grains per dry standard cubic foot, and/or;
- (b). The permittee shall limit the total emissions of particulate matter from each venturi scrubber listed under this source to 0.105 pounds per hour and 0.46 tons per year on a 12-month rolling sum basis.

Control Device Efficiency Restriction(s).**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (a). The permittee shall maintain the following operation parameters for each venturi scrubber listed under this source:
- (1). The water flow rate into each venturi scrubber shall be greater than or equal to 6.1 gallons per minute.
 - (2). The pressure differential across each venturi scrubber listed under this source shall be between 8 inches water gauge and 18 inches water gauge.
- (b). The particulate matter control efficiency for each venturi scrubber listed under this source shall be greater than or equal to 98 percent.

II. TESTING REQUIREMENTS.

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

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

The permittee shall monitor the following parameters on a daily basis when the venturi scrubbers listed under this source are in operation:

- (a). The inlet water flow rate to each venturi scrubber.
- (b). The pressure drop across each venturi scrubber and across each separator.

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

The permittee shall keep records of the following parameters on a daily basis when the venturi scrubbers listed under this source are in operation:

**SECTION D. Source Level Requirements**

- (a). The inlet water flow rate to each venturi scrubber.
(b). The pressure drop across each venturi scrubber and across each separator.

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

The permittee shall keep records of all inspections and/or maintenance performed on the venturi scrubbers listed under this source. The records shall include the date and time of the inspection and/or maintenance and description of what was performed.

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

The permittee shall keep records of each event in which an alarm is activated and/or event in which the intake of air to each scrubber listed under this source is shut down. The records shall include the date and time of the event, the cause of the event, and a description of the corrective action taken.

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

The permittee shall keep a copy of the manufacturer's specifications for each venturi scrubber on file.

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

The permittee shall calculate and record the particulate matter emissions from each venturi scrubber on a monthly and a 12-month rolling basis.

V. REPORTING REQUIREMENTS.

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

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

The permittee shall perform inspections and/or maintenance on each venturi scrubber listed under this source on at least a monthly basis.

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

The permittee shall install, operate, and maintain the venturi scrubbers listed under this source in accordance with manufacturer's specifications.

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

The two Air Handling Units listed under Source ID No. 125G shall be operated only when the venturi scrubbers listed under this source are in operation.

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

- (a). The permittee shall equip each venturi scrubber with a rotameter, or equivalent device, to measure the flow rate of the

**SECTION D. Source Level Requirements**

inlet water flow to the venturi scrubber.

(b). The permittee shall install, operate, and maintain alarm systems to notify operations personnel if operating parameters for each venturi scrubber are out of compliance with the limits set through this plan approval for each device listed in paragraph (a) above.

(c). The permittee shall install, operate, and maintain devices to automatically shut down air intake to the air handling units in Source ID No. 125G and the venturi scrubbers listed under this source if operating parameters for each venturi scrubber are out of compliance with the limits set through this plan approval for each device listed in paragraph (a) above.

(d). Each device listed in paragraph (a) above shall be located in an area accessible to Department personnel for recording measurements during facility inspections.

VII. ADDITIONAL REQUIREMENTS.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID No. C125G shall include two (2) Ducon Oriclone Venturi Scrubbers (Size 6/18 Type VVO), or equivalent.

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

**SECTION E. Source Group Restrictions.**

Group Name: 100

Group Description: Two Cogeneration Systems

Sources included in this group

ID	Name
101	COGENERATION SYSTEM #2 (TURBINE 2 + HRSG 2), SN KG19194
102	COGENERATION SYSTEM #1 (TURBINE 1 + HRSG 1), SN KG19193

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

001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4330]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

What emission limits must I meet for sulfur dioxide (SO₂)?

Pursuant to 40 CFR 60.4330(a)(1) this source must not cause to be discharged into the atmosphere from the subject stationary combustion turbine any gases which contain SO₂ in excess of 0.90 pounds per megawatt-hour (lb/MWh) gross output or comply with fuel sulfur content limit (0.060 lb SO₂/mmBtu) in 40 CFR 60.4330(a)(2).

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall use only natural gas as a fuel for this source.

The permittee shall limit the natural gas usage in the supplemental burner to 595 MMscf/yr on a twelve (12) month rolling sum.

II. TESTING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall perform a stack test using the Department-approved procedures once every five (5) calendar years, where five (5) calendar years is defined as beginning with the calendar year the latest stack test was performed and ending on December 31, five (5) years later. 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) The stack test shall, at a minimum, test for all pollutants listed in Conditon #001 for Souce IDs 101 and 102, including ammonia slip but excluding SO₂. Tests shall be conducted in accordance with the provisions of EPA Method/s or other Department approved methodology and 25 Pa. Code Chapter 139.

(c) At least ninety (90) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

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

(e) Within sixty (60) days after the source test(s) (unless a more stringent regulatory requirement applies), an electronic copy of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

(f) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in

**SECTION E. Source Group Restrictions.**

writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.

(g) Subsequent stack testing, per pollutant, will be determined upon the review of the initial stack testing report.

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

(a) The permittee shall email all source test submissions (notifications, protocols, reports, supplemental information, etc.) to both the AQ Program Manager for the Southeast Regional Office and the PSIMS Administrator in Central Office (email addresses are provided below). Any questions or concerns about source testing submissions can be sent to RAEPstacktesting@pa.gov and the PSIMS Administrator will address them.

Southeast Region
RA-EPSEstacktesting@pa.gov

Central Office
RA-EPstacktesting@pa.gov

(b) The following pertinent information shall be listed on the title page.

1. Test Date(s)

- a. For protocols, provide the proposed date on which testing will commence or "TBD"
- b. For reports, provide the first and last day of testing

2. Facility Identification Number (Facility - ID): For test programs that were conducted under a multi-site protocol, also include the PF ID under which the protocol was stored in PSIMS, as indicated in the protocol response letter.

3. Source ID(s) for the applicable source(s) and air pollution control device(s): The term Source ID is used in the permit but "Other Id" is used in DEP electronic systems. They are the same number and must also be listed for control equipment

4. Testing Requirements (all that apply)

- a. Plan approval number(s)
- b. Operating permit number
- c. Applicable federal subpart(s) (i.e. 40 CFR 60, Subpart JJJJ)
- d. Special purpose(s) (Consent Order, RFD, RACT III, Tier II, etc.)

(c) If confidential information must be submitted, submit both a public copy, which has been redacted, and a confidential copy. The cover page of each submittal should state whether it is a "Public Copy" or "Confidential Copy" and each page of the latter must be marked "CONFIDENTIAL".

005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4340]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****How do I demonstrate continuous compliance for NOX if I do not use water or steam injection?**

Pursuant to 40 CFR 60.4340(a), since the turbines will not use water or steam injection to control NOx emissions, the permittee will perform initial and subsequent annual performance tests on the turbines in accordance with 40 CFR 60.4400(a) and 40 CFR 60.4400(b)(2)(4)(5)&(6) to demonstrate continuous compliance. Subsequent annual NOx performance tests shall be conducted no more than 14 calendar months following the previous performance test. If the NOx emission result from the performance test is less than or equal to 75 percent of the NOx emission limit for the turbine ($=18.75$ ppm at 15% O₂ or $=0.9$ lb/MW-hr), the permittee may reduce the frequency of subsequent performance tests to once every 2 years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75% of the NOx emission limit, the permittee will be required to resume annual performance testing. Alternatively, the permittee may install, calibrate, maintain and operate a CEMS or CPMS per

**SECTION E. Source Group Restrictions.**

60.4340(b).

The NO_x emission limit referred to above is from NSPS (25.0 ppm) not the BAT value specified in condition #001 (2.5 ppm).

006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4400]

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

How do I conduct the initial and subsequent performance tests, regarding NO_x ?

The permittee shall conduct NO_x performance tests on an annual basis (no more than 14 calendar months following the previous performance test) except as noted in Condition #005 above.

Note: the permittee can only conduct stack tests on the combustion turbine (by itself) or on the combustion turbine + the supplemental burner. The supplemental burner cannot be tested by itself because the turbine's flue gas is the combustion air for the supplemental burner.

III. MONITORING REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall periodically monitor the oxidation catalyst and the SCR catalyst on an appropriate frequency to ensure they are functioning as designed along with projecting the remaining useful life.

-- DEP reserves the right to establish these catalyst inspection intervals based on the review of the manufacturer's specifications and any additional documentation

The permittee shall monitor the following control device operating parameters of the cogeneration unit through the use of an automated monitoring system:

(a) Catalyst zone temperature of the oxidation catalyst and the SCR unit on a three (3) - hour rolling average.

-- the oxidation catalyst temperature shall be measured at the inlet of the catalyst

-- the SCR temperature shall be measured at the outlet of the catalyst

(b) Ammonia injection rate of the SCR unit.

(c) Outlet NO_x (using an outlet NO_x mini-CEMS) to less than or equal to 2.5 ppmv NO_x on a three (3) hour rolling average to ensure the ammonia flow to control NO_x emissions.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall calculate the following emission from the cogeneration unit:

1) monthly VOC, PM₁₀, PM_{2.5}, PM_{total}, and post-control NO_x and CO emissions in tons per year on a 12-month rolling sums.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following operating parameters of the cogeneration unit:

(a) natural gas consumption to the turbine and supplemental burner separately through the use of separate fuel meters.

(b) hours of operation through the use of a non-resettable hour meter.

**SECTION E. Source Group Restrictions.****IV. RECORDKEEPING REQUIREMENTS.****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain records of the following control device operating parameters through the use of the automated monitoring system:

- (a) the three (3) - hour rolling average catalyst zone temperatures of each control device (the oxidation catalyst and the SCR unit).
- (b) the three (3) - hour rolling average urea injection rates of the SCR unit.
- (c) the outlet-SCR NOx level.

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

The permittee shall maintain records of the following operating parameters of the cogeneration unit:

- (a) natural gas consumption to the turbine and supplemental burner separately on a monthly basis, including 12-month rolling sums.
- (b) hours of operation on a Startup and Shutdown event basis.

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

The permittee shall keep records of the following for the SCR unit and oxidation catalyst associated with this source:

- (a) inspections performed (including projected remaining useful life),
- (b) maintenance performed,
- (c) any deficiencies, and
- (d) any corrective actions taken.

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

(a) The permittee shall maintain records of VOC, PM10, PM2.5, PMtotal, NOx, and CO emissions from this unit in tons per year on a 12-month rolling sums basis.

(b) The permittee shall maintain records of VOC, PM10, PM2.5, PMtotal, NOx, CO, & ammonia slip emissions as determined during the most recent stack test, demonstrating compliance with each emission limit established for the cogeneration unit listed in this permit.

014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4365]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****How can I be exempted from monitoring the total sulfur content of the fuel?**

Pursuant to 40 CFR 60.4365(a), in order to demonstrate continuous compliance with the applicable 0.060 lb/mmBtu potential SO2 emissions limit, the permittee will utilize a current, valid purchase contract, tariff sheet or transportation contract for natural gas that will specify the maximum total sulfur content of the natural gas used at the facility is less than 20 grains per 100 standard cubic feet.

V. REPORTING REQUIREMENTS.**# 015 [25 Pa. Code §135.3]****Reporting**

**SECTION E. Source Group Restrictions.**

Within thirty (30) days of issuance of the operating permit the permittee shall submit to the Department for approval the revised reporting formats.

016 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4375]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What reports must I submit?**

Pursuant to 40 CFR 60.4375(b), since the permittee will be conducting annual performance testing in accordance with 40 CFR 60.4340(a). A written report of the results of each performance test will be submitted to DEP and the USEPA before the close of business on the 60th day following the completion of the performance test.

VI. WORK PRACTICE REQUIREMENTS.**# 017 [25 Pa. Code §123.31]****Limitations**

The permittee shall not emit any malodorous air contaminants in such a manner that malodors are detectable outside the facility boundary.

018 [25 Pa. Code §123.41]**Limitations**

The permittee shall not allow emissions to equal or exceed 20% opacity for more than 3 min/hr and may not equal or exceed 60% opacity at any time.

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

All online analyzers, thermocouples, and flow meters shall be calibrated and maintained in good working order as per manufacturer's recommendation.

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

(a) The permittee shall operate and maintain this source and the associated control systems according to the manufacturer's specifications and good air pollution control practices.

(b) The permittee shall keep a copy of the manufacturers' maintenance manuals on site and available to the department upon request.

(c) The permittee shall operate this source only when the associated control devices are operating properly.

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

(a) The permittee shall replace the catalyst of the SCR unit when the ammonia slip exceeds 5.0 ppmv at 15% oxygen as measured during any source test.

(b) The permittee shall replace the catalyst of the SCR unit when the NOx emissions exceed 2.5 ppmv at 15% oxygen, as determined during any source test.

(c) The permittee shall replace the catalyst of the oxidation catalyst when the CO emissions exceed 5.0 ppmv at 15% oxygen as determined during any source test.

**SECTION E. Source Group Restrictions.****# 022 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall operate the SCR unit to control NO_x emissions from the cogeneration unit when the catalyst bed temperature is in the range of 420°F and 485°F. These temperatures shall be established on a 3-hour rolling basis. An alarm shall indicate if the temperature falls outside of this range.

(b) The permittee shall operate the Oxidation Catalyst unit to control CO emissions from the cogeneration unit when the catalyst bed temperature is in the range of 430°F and 1,150°F. These temperatures shall be established on a 3-hour rolling basis. An alarm shall indicate if the temperature falls outside of this range.

Note: Ammonia injection shall be terminated, if the SCR reactor temperature drops below the minimum operating temperature. The minimum temperature shall be measured by a downstream thermocouple to assure that all catalyst is above the minimum temperature.

023 [25 Pa. Code §129.202]**Stationary combustion turbines.**

(a) By October 31 of each year, the permittee shall calculate the difference between the actual emissions from the unit for the period from May 1 through September 30, and the allowable emissions for the same period.

(b) The permittee shall calculate allowable emissions by multiplying the unit's cumulative heat input for the period by NO_x/MMBtu or 1.3 lbs NO_x/MWH.

024 [25 Pa. Code §129.204]**Emission accountability.**

(a) If the affected source(s) has NO_x CEMS, the permittee shall determine actual emissions in accordance with the CEMS data reported to the Department. Any data invalidated under Chapter 139 (relating to sampling and testing) shall be substituted with data calculated using the potential emission rate for the unit or, if approved by the Department in writing, an alternative amount of emissions that is more representative of actual emissions that occurred during the period of invalid data.

(b) If the permittee is not required to monitor NO_x emissions with a CEMS, one of the following shall be used to determine actual emissions of NO_x:

(1) The 1-year average emission rate calculated from the most recent permit emission limit compliance demonstration test data for NO_x.

(2) The maximum hourly allowable NO_x emission rate contained in the permit or the higher of the following:

(i) The highest rate determined by use of the emission factor for the unit class contained in the most up-to-date version of the EPA publication, "AP-42 Compilation of Air Pollution Emission Factors."

(ii) The highest rate determined by use of the emission factor for the unit class contained in the most up-to-date version of EPA's "Factor Information Retrieval (FIRE)" data system.

(3) CEMS data, if the permittee elects to monitor NO_x emissions with a CEMS. The permittee shall monitor emissions and report the data from the CEMS in accordance with Chapter 139 or Chapter 145 (relating to interstate pollution transport reduction). Any data invalidated under Chapter 139 shall be substituted with data calculated using the potential emission rate for the unit or, if approved by the Department in writing, an alternative amount of emissions that is more representative of actual emissions that occurred during the period of invalid data.

(4) An alternate calculation and recordkeeping procedure based upon emissions testing and correlations with operating parameters. The permittee shall demonstrate that the alternate procedure does not underestimate actual emissions throughout the allowable range of operating conditions. In regard to obtaining the Department's approval for an alternate calculation method and recordkeeping procedure for actual emissions, the permittee may request an adjustment to the

**SECTION E. Source Group Restrictions.**

allowable emissions calculations set forth in §§ 129.201—129.203. An allowable emission adjustment may not overestimate a unit's allowable emissions and must be based upon the parameters and procedures proposed in the alternate calculation method for actual emissions. The alternate calculation and recordkeeping procedures must be approved by the Department, in writing, prior to implementation.

025 [25 Pa. Code §129.204]**Emission accountability.**

(a) The permittee shall surrender to the Department one CAIR NO_x allowance and one CAIR NO_x Ozone Season allowance, as defined in 40 CFR 96.102 and 96.302 (relating to definitions), for each ton of NO_x by which the combined actual emissions exceed the allowable emissions of the units subject to this section at a facility from May 1 through September 30. The surrendered allowances shall be of current year vintage. For the purpose of determining the amount of allowances to surrender, any remaining fraction of a ton equal to or greater than 0.50 ton is deemed to equal 1 ton and any fraction of a ton less than 0.50 ton is deemed to equal zero tons.

(b) If the combined allowable emissions from units subject to this section at a facility from May 1 through September 30 exceed the combined actual emissions from units subject to this section at the facility during the same period, the permittee may deduct the difference or any portion of the difference from the amount of actual emissions from units subject to this section at the permittee's other facilities.

(c) By November of each year, the permittee shall surrender the required NO_x allowances to the Department's designated NO_x allowance tracking system account and provide to the Department, in writing, the following:

- (1) The serial number of each NO_x allowance surrendered.
- (2) The calculations used to determine the quantity of NO_x allowances required to be surrendered.

(d) If the permittee fails to comply with subsection (c), the permittee shall by December 31 surrender three NO_x allowances of the current or later year vintage for each NO_x allowance that was required to be surrendered by November 1 of that year.

(e) The surrender of NO_x allowances under subsection (d) does not affect the liability of the permittee for any fine, penalty or assessment, or an obligation to comply with any other remedy for the same violation, under the CAA or the act.

- (1) For purposes of determining the number of days of violation, if a facility has excess emissions for the period May 1 through September 30, each day in that period (153 days) constitutes a day in violation unless the permittee demonstrates that a lesser number of days should be considered.
- (2) Each ton of excess emissions is a separate violation.

[Note: On July 6, 2011, EPA promulgated the Cross-State Air Pollution Rule (CSAPR) to replace CAIR. The CSAPR provisions of 40 CFR Part 97, Subpart AAAAA (relating to CSAPR NO_x Annual Trading Program), replaced the provisions of 40 CFR Part 96, Subpart AA (relating to CAIR NO_x Annual Trading Program General Provisions), and remain in effect. On October 26, 2016, EPA promulgated the CSAPR Update to establish the provisions of 40 CFR Part 97, Subpart EEEEE (relating to CSAPR NO_x Ozone Season Group 2 Trading Program), to replace the previously-established CAIR NO_x Ozone Season Trading Program and CSAPR NO_x Ozone Season Group 1 Trading Program for certain states, including Pennsylvania, beginning with the 2017 ozone season. On April 30, 2021, EPA promulgated the Revised CSAPR Update to establish the provisions of 40 CFR Part 97, Subpart GGGGG (relating to CSAPR NO_x Ozone Season Group 3 Trading Program), to replace the provisions of 40 CFR Part 97, Subpart EEEEE, for certain states, including Pennsylvania, beginning with the 2021 ozone season (though DEP will accept CSAPR NO_x Ozone Season Group 2 allowances of current year vintage from other states, if available). Accordingly, the permittee shall surrender CSAPR NO_x Annual allowances and either CSAPR NO_x Ozone Season Group 2 allowances or CSAPR NO_x Ozone Season Group 3 allowances, as defined in 40 CFR §§ 97.402, 97.802, and 97.1002, respectively, instead of the CAIR NO_x allowances and CAIR NO_x Ozone Season allowances indicated in 25 Pa. Code § 129.204(c), as the latter are no longer available.]

026 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4333]**Subpart KKKK - Standards of Performance for Stationary Combustion Turbines****What are my general requirements for complying with this subpart?**

**SECTION E. Source Group Restrictions.**

Pursuant to 40 CFR 60.4333(a), the turbines, their pollution control equipment, and their monitoring equipment will be maintained in a manner that is consistent with good air pollution control practices for minimizing emissions. This requirement applies at all times including during startup, shutdown, and malfunction.

VII. ADDITIONAL REQUIREMENTS.**# 027 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source 101 consists of the following components:

- 1) A combined cycle gas turbine (Turbine 2) manufactured by Solar, Model No. Titan 130, Serial Number KG19194 with a rated heat input of 185 mmBtu/hr.
- 2) A Heat Recovery Steam Generator (HRSG2) manufactured by Rentech, Serial Number 2019-29-BLR with a rated heat input of 83 mmBtu/hr.
- 3) A Selective Catalytic Reduction, SCR manufactured by Cormetech, Model: CM14ST and
- 4) A Oxidation Catalyst manufactured by Synergy.

Source 102 consists of the following components:

- 1) A combined cycle gas turbine (Turbine 1) manufactured by Solar, Model No. Titan 130, Serial Number KG19193 with a rated heat input of 185 mmBtu/hr.
- 2) A Heat Recovery Steam Generator (HRSG1) manufactured by Rentech, Serial Number 2019-30-BLR with a rated heat input of 83 mmBtu/hr.
- 3) A Selective Catalytic Reduction, SCR manufactured by Cormetech, Model: CM14ST and
- 4) A Oxidation Catalyst manufactured by Synergy.

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

**SECTION E. Source Group Restrictions.**

Group Name: 200

Group Description: Two Cogeneration Units and Diverter

Sources included in this group

ID	Name
101	COGENERATION SYSTEM #2 (TURBINE 2 + HRSG 2), SN KG19194
102	COGENERATION SYSTEM #1 (TURBINE 1 + HRSG 1), SN KG19193
110	TURBINE #2 (ONLY)

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The total emissions from the cogeneration and diverter in tons per year*, for the pollutants listed below, shall not exceed:

NOX 24.90 tpy
CO 33.27 tpy
VOC 10.05 tpy
SO2 5.87 tpy
PM10 18.86 tpy
PM2.5 18.86 tpy
PM total 18.86 tpy

*Tons per year on a 12-month rolling basis.

** The annual limits (tpy) represent the maximum total emissions of Cogeneration Units 1 & 2 & include the emissions during diverter operations and startup and shutdown.

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.

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

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



SECTION E. Source Group Restrictions.

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

**SECTION E. Source Group Restrictions.**

Group Name: SG001

Group Description: Diesel Emergency Engines

Sources included in this group

ID	Name
131	350 KW GENERATOR
149	THREE (3) EMERGENCY GENERATORS (500 KW EACH)
204A	EXEMPT FIRE PUMP

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

No person shall permit the emission into the outdoor atmosphere of particulate matter from this source in such a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains/dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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).

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.

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

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

**SECTION E. Source Group Restrictions.**

Group Name: SG004

Group Description: Paper Machines

Sources included in this group

ID	Name
103	PAPER MACHINE 17
104	PAPER MACHINE 18
124	PAPER MACHINE 12

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.**# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the following information on a monthly basis for this paper machine:

- (a). The usage rate of biocide, defoamer, release agent, absorbency aid, felt/wire cleaner, Yankee coating, dye fixative, wet strength, charge control, retention aid, bonding agent and dry strength in pounds per month with the generic name of the chemical.
- (b). The VOC content of each of the chemical compounds in percent by weight.
- (c). The production in tons per day for this paper machine.
- (d). The emission of VOC in pounds per month.

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

The following recordkeeping requirements apply to the paper machine and pulp brightening processes:

- (a). The permittee shall maintain a file containing all records and other data that are required to be collected to demonstrate compliance with NOx/VOC RACT requirements of 25 Pa. Code §§129.111-129.115.
- (b). The records shall provide sufficient data and calculations to clearly demonstrate that the requirements of §§129.111-129.115 are met.
- (c). Data required to determine compliance shall be recorded and maintained in a time frame consistent with the averaging period of the requirement.
- (d). Records shall be retained for at least five years and shall be made available to the Department on request.
- (e). The permittee shall maintain a file of all pertinent data and calculations for nitrogen oxide, particulate matter, SO₂, CO, and VOC emissions to demonstrate compliance with the limits set forth in this Title V Permit.

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

**SECTION E. Source Group Restrictions.**

The permittee shall record the following information on a monthly basis for this paper machine and shall make the records available to the Department upon request:

- (a). The usage rate of biocide, defoamer, release agent, absorbency aid, felt/wire cleaner, Yankee coating, dye fixative, wet strength, charge control, retention aid, bonding agent and dry strength in pounds per month with the generic name of the chemical.
- (b). The VOC content of each of the chemical compounds in percent by weight.
- (c). The production in tons per day for this paper machine.
- (d). The emission of VOC in pounds per month.

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

The permittee shall keep records of all inspections and/or maintenance, including tune-ups, that are performed on this source and its associated control device(s). The permittee shall include the date of the inspection, the type of maintenance performed, and any corrective action taken.

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.

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

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

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Title V facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
101	COGENERATION SYSTEM #2 (TURBINE 2 + HRSG 2), SN KG19194		
Emission Limit			Pollutant
5.000	PPMV	Ammonia Slip O2	Ammonia
3.000	Lbs/Hr		CO
5.000	PPMV	@15% O2	CO
33.270	Tons/Yr	for both cogeneration units and alternate operating scenario	CO
2.500	Lbs/Hr		NOX
2.500	PPMV	@15% o2	NOX
24.900	Tons/Yr	for both cogeneration units and alternate operating scenario	NOX
2.260	Lbs/Hr		PM10
18.860	Tons/Yr	for both cogeneration units and alternate operating acenario	PM10
2.260	Lbs/Hr		PM2.5
18.860	Tons/Yr	for both cogeneration units and alternate operating scenario	PM2.5
0.680	Lbs/Hr		SOX
5.870	Tons/Yr	for both cogeneration units and alternate operating scenario	SOX
2.260	Lbs/Hr		TSP
18.860	Tons/Yr	for both cogeneration units and alternate operating scenario	TSP
1.690	Lbs/Hr		VOC
10.050	Tons/Yr	for both cogeneration units and alternate operating scenario	VOC
102	COGENERATION SYSTEM #1 (TURBINE 1 + HRSG 1), SN KG19193		
Emission Limit			Pollutant
5.000	PPMV	Ammonia Slip @ 15% O2	Ammonia
3.000	Lbs/Hr		CO
5.000	PPMV	@ 15% O2	CO
33.270	Tons/Yr	for both cogeneration units and alternate operating scenario	CO
2.500	Lbs/Hr		NOX
2.500	PPMV	@ 15% O2	NOX
24.900	Tons/Yr	for both cogeneration units and alternate operating scenario	NOX
2.260	Lbs/Hr		PM10
18.860	Tons/Yr	for both cogeneration units and alternate operating scenario	PM10
2.260	Lbs/Hr		PM2.5
18.860	Tons/Yr	for both cogeneration units and alternate operating scenario	PM2.5
0.680	Lbs/Hr		SOX
5.870	Tons/Yr	for both cogeneration units and alternate operating scenario	SOX
2.260	Lbs/Hr		TSP
18.860	Tons/Yr	for both cogeneration units and alternate operating scenario	TSP
1.690	Lbs/Hr		VOC

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
10.050	Tons/Yr	for both cogeneration units and alternate operating scenario	VOC
103	PAPER MACHINE 17		
Emission Limit		Pollutant	
3.400	Lbs/Hr		CO
11.840	Tons/Yr		CO
0.090	Lbs/Hr		NMOC
0.320	Tons/Yr		NMOC
0.100	Lbs/MMBTU	burners PM # 17	NOX
3.400	Lbs/Hr	burners PM # 17	NOX
11.840	Tons/Yr	burners PM # 17	NOX
0.660	Lbs/Hr	venturi scrubber; includes PM2.5	PM10
2.890	Tons/Yr	12-month rolling basis; from venturi scrubber; includes PM2.5	PM10
0.020	Lbs/Hr		SOX
0.070	Tons/Yr		SOX
500.000	PPMV		SOX
0.020	gr/CF	dry standard conditions; from venturi scrubber	TSP
0.040	gr/DRY FT3		TSP
0.090	Lbs/Hr	burners PM # 17	VOC
0.320	Tons/Yr	burners PM # 17	VOC
104	PAPER MACHINE 18		
Emission Limit		Pollutant	
6.000	Lbs/Hr	dryers	CO
19.060	Tons/Yr	dryers 12-month rolling sum basis	CO
0.160	Lbs/Hr	dryers	NMOC
0.510	Tons/Yr	dryers 12-month rolling sum	NMOC
0.100	Lbs/MMBTU	natural gas	NOX
4.800	Lbs/Hr	dryers	NOX
15.240	Tons/Yr	dryers 12-month rolling sum basis	NOX
0.040	Lbs/Hr	dryers	SOX
0.110	Tons/Yr	dryers 12-month rolling sum	SOX
0.010	gr/DRY FT3	scrubber	TSP
0.040	gr/DRY FT3		TSP
0.360	Lbs/Hr	dryers	TSP
0.710	Lbs/Hr	scrubber	TSP
1.150	Tons/Yr	dryers 12-month rolling sum	TSP
110	TURBINE #2 (ONLY)		
Emission Limit		Pollutant	
5.260	Tons/Yr		CO
10.370	Lbs/Hr		CO

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
25.000	PPMV	@ 15% O2	CO
33.270	Tons/Yr	for both cogeneration units and alternate operating scenario	CO
5.180	Tons/Yr		NOX
10.220	Lbs/Hr		NOX
15.000	PPMV	@ 15% O2	NOX
24.900	Tons/Yr	for both cogeneration units and alternate operating scenario	NOX
0.830	Tons/Yr		PM10
1.640	Lbs/Hr		PM10
18.860	Tons/Yr	for both cogeneration units and alternate operating scenario	PM10
0.830	Tons/Yr		PM2.5
1.640	Lbs/Hr		PM2.5
18.860	Tons/Yr	for both cogeneration units and alternate operating scenario	PM2.5
0.320	Tons/Yr		SOX
0.630	Lbs/Hr		SOX
5.870	Tons/Yr	for both cogeneration units and alternate operating scenario	SOX
0.830	Tons/Yr		TSP
1.640	Lbs/Hr		TSP
18.860	Tons/Yr	for both cogeneration units and alternate operating scenario	TSP
0.590	Tons/Yr		VOC
1.160	Lbs/Hr		VOC
10.050	Tons/Yr	for both cogeneration units and alternate operating scenario	VOC
124	PAPER MACHINE 12		
Emission Limit			Pollutant
1.160	Lbs/Hr	dryer	CO
4.020	Tons/Yr	dryer on a 12-month rolling sum basis	CO
0.100	Lbs/MMBTU	dryer	NOX
3.400	Lbs/Hr	dryer	NOX
11.840	Tons/Yr	dryer 12-month rolling sum	NOX
0.200	Lbs/Hr	dryer; includes PM2.5	PM10
0.710	Tons/Yr	dryer 12-month rolling sum; includes PM2.5	PM10
500.000	PPMV		SOX
0.020	gr/DRY FT3	scrubber	TSP
0.040	gr/DRY FT3		TSP
0.580	Lbs/Hr	scrubber	TSP
2.560	Tons/Yr	scrubber on a 12-month rolling sum basis	TSP
0.090	Lbs/Hr	dryer	VOC
0.320	Tons/Yr	dryer 12-month rolling sum	VOC

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description		
125B	PCMC CONVERTING AREA		
Emission Limit		Pollutant	
0.040	gr/DRY FT3	TSP	
125C	PERINI CONVERTING AREA		
Emission Limit		Pollutant	
0.010	gr/CF	scrubber effluent	TSP
0.630	Tons/Yr	scrubber effluent on a 12-month rolling sum basis	TSP
131	350 KW GENERATOR		
Emission Limit		Pollutant	
500.000	PPMV	SOX	
0.040	gr/DRY FT3	TSP	
149	THREE (3) EMERGENCY GENERATORS (500 KW EACH)		
Emission Limit		Pollutant	
500.000	PPMV	SOX	
0.040	gr/DRY FT3	TSP	
204A	EXEMPT FIRE PUMP		
Emission Limit		Pollutant	
3.500	GRAMS/KW-Hr	CO	
4.000	GRAMS/KW-Hr	NOx+NMHC	
500.000	PPMV	SOX	
0.040	gr/DRY FT3	TSP	

Site Emission Restriction Summary

Emission Limit		Pollutant
49.000	Tons/Yr	VOC
9.990	Tons/Yr	Individual HAP Emission
24.990	Tons/Yr	Total HAP Emissions

**SECTION H. Miscellaneous.**

#001

This permit includes appropriate terms and conditions, and information from the following permits:

23-0014A RACT
23-0014A NOx Budget

#002

The Department has determined that the emissions from the following activities, excluding those indicated as site level requirements, in Section C, of this permit, do not require additional limitations, monitoring, or recordkeeping:

(a). Diesel Storage Tanks

- (1). 500 gallon Coal Yard Storage Tank (066A)-this source has been removed from the facility.
- (2). 1,000 gallon 950KW Emergency Generator Main Tank (067A)-this source has been removed from the facility.
- (3). 350 gallon 950KW Emergency Generator Back-up Tank (077A)-this source has been removed from the facility.
- (4). 205 gallon 350KW Emergency Generator Tank
- (5). 500 gallon Emergency Fire Pump Tank

(b). 159,000 gallon No. 2 Fuel Oil Tank. *** The facility deregistered and permanently removed this tank from service in December 2017 ***

(c). Fugitive Emissions from Vehicular Traffic.

(d). ST-2 Scott Bath Tissue Converting Line (air cleaning device vents indoors).

(e). Tissue pulpers (formerly Section D, Source ID Nos. 133, 135, and 136).

(f). Solid Fuel Day Silo 1 (formerly Section D, Source ID No. 141); ***Control Device C06 – Carter Bay Baghouse is associated with this source.***-this source has been removed from the facility.

(g). Solid Fuel Culm Day Silo 2 (formerly Section D, Source ID No. 142).-this source has been removed from the facility.

(h). Limestone Silo (formerly Section D, Source ID No. 147); ***Control Device C07 – Limestone Silo Baghouse is associated with this source.***. -this source has been removed from the facility.

For Condition #002, the permittee shall keep on file records of calculations that demonstrate that the emissions of VOC for each storage tank listed in paragraphs (a) and (b) will never exceed the limits of 3 pounds per hour; 15 pounds per day; or 2.7 tons per year on a 12-month rolling sum basis derived from RACT Operating Permit OP-23-0014A. The permittee shall also keep on file records to demonstrate that the combined emissions from the storage tanks listed in Condition #002(a) and (b) will never exceed 4.42 tons VOC per year on a 12-month rolling sum basis derived from RACT Operating Permit OP-23-0014A. The calculation of potential emissions from the storage tanks may be a one-time calculation if there are no changes to the operation of the tanks. Otherwise, the permittee must account for any changes in the operation of the storage tank that exceeds the previously calculated potential to emit calculation on file and use that new calculation as the potential to emit for determining compliance with the emissions limits listed above.

#003

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

#004

Under the direction of 25 Pa. Code §§ 123.106 and 123.107 and the requirements of 25 Pa. Code Chapter 145, the Department has set up an overdraft account for facilities, like Kimberly-Clark Corporation, which have two or more affected units in the NOx Budget Allowance Program. Allowances in the overdraft account are automatically deducted if an affected unit does not have enough NOx Allowances in its compliance account to cover its actual emissions. Records of all transactions are to be kept according to the conditions listed under Boiler #9 (Source ID 034) and Boiler #10 (Source ID 035). The overdraft account for Kimberly-Clark is NATS Account Number 050410OVERDF, and this account covers compliance accounts 050410000034 and 050410000035 for Boiler #9 and Boiler #10 respectively.

#005

This permit has been revised through a minor modification submitted July 18, 2002, to incorporate a change in the temperature for the scrubber connected to the Perini Converting Area (Source ID 125C). The original inlet temperature of the water was to be less than 80 degrees F. The inlet water temperature has been changed so that it cannot exceed 100 degrees F. This modification

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occurred on August 27, 2002.

#006

This permit has been revised to address a typographical error in the range of pressure drop on some of the baghouses associated with Source ID No. 148. The range of pressure drop was supposed to be 1 to 5 inches water column not 3 to 5 inches water column.

#007

This permit was revised on February 10, 2003 to address a change in ownership from the parent company, Kimberly-Clark Corporation, to Kimberly-Clark PA, LLC, a wholly owned subsidiary of Kimberly-Clark Corporation.

#008

APS #: 487541; Authorization #: 508013. This permit has been revised due to a minor permit modification for the heat input of Source ID No. 035 (#10 Boiler). The modification changes the allowable heat input from "799 MMBTU/hr on a daily basis" to "838 MMBTU/hr averaged on a daily basis and 799 MMBTU/hr on a thirty-day rolling average." Monitoring, record keeping, testing and reporting conditions were added as methods for demonstrating compliance.

#009

APS #: 345485; Authorization #: 518963. This permit has been revised due to a minor modification for the range of pressure drops across the bin vent filter (C07) associated with the Limestone Storage Silo (Source ID No. 147). The pressure drop range was changed from "2 - 6 inches w.g." to "0.5 - 6 inches w.g."

#010

APS #: 345485; Authorization No. 602706. This permit has been revised to incorporate plan approval PA-23-0014C into the Title V Permit. The plan approval is for the installation and operation of a venturi scrubber on Paper Machine 17 to control particulate emissions. The conditions for small NOx boilers and internal combustion sources were added to Source ID Nos. 033, 130, and 204 as applicable requirements for this revision. Source ID No. 203 has been removed from this permit because it is inactive (removed from the facility).

#011

APS No. 345485; Authorization No. 641042. This Title V Permit was revised to incorporate plan approval PA-23-0014D for the addition of a venturi scrubber on the exhaust from Source ID No. 124 (Paper Machine No. 12) and to incorporate plan approval PA-23-0014E for a dryer burner associated with Source ID No. 120 (Paper Machine No. 16).

#012.

APS No. 345485; Authorization No. 652271: Title V Renewal Application. The Title V Permit was revised to remove Source ID No. 125F, which was deactivated and removed from the facility. The Title V Permit was revised to remove outdated NOx Budget Requirements from 25 Pa. Code Sections 123.101 - 123.120 from Source ID Nos. 034 and 035. The requirements from 25 Pa. Code Sections 129.203 and 129.204 do not apply to Source ID No. 204, and these requirements were removed from the source.

#013. APS No. 345485; Authorization No. 779611: On January 28, 2009, the Title V Permit was revised through an administrative amendment to add conditions for Compliance Assurance Monitoring (CAM) in accordance with 40 C.F.R. Part 64 to Paper Machine No. 12 (Source ID No. 124).

#014. APS No. 345485; AUTH No. 807816: October 2009, the Title V Permit was revised through an administrative amendment to add conditions from plan approval 23-0014F for T-10-4 converting area, ID No. 125D, controlled by dust house, ID No. C125D1, and scrubber, ID No. C125D2.

#015. APS No. 345485; Authorization No. 906532: February, 2012, the Title V Operating Permit was revised to incorporate the requirements of plan approval 23-0014G for the installation of two air handling units (Source ID No. 125G) and associated venturi scrubbers (Source ID No. C125G) in the ST-1 Converting Area. This action also provides an alternate operating scenario for times when the air handling units are off line for maintenance.

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#016. APS No. 345485; Authorization No. 955684: This action is for the renewal of a Title V Operating Permit for Kimberly-Clark of Pennsylvania, LLC (Kimberly-Clark). The following changes were made to the permit to reflect the current operation of the facility:

(a). The wastewater treatment facility (Source ID No. 126B) has not been in operation since 2005. Although the Department was notified of the deactivation, no plans were submitted for maintenance or for reactivation of the source. The source has not been removed from the facility, but either a Request for Determination or a plan approval is required before Kimberly-Clark can operate the source in the future. Source ID No. 126B was removed from the permit.

(b). Paper Machine No. 19 (Source ID No. 105) was being dismantled/removed from the facility as confirmed in the inspection on March 13, 2013. This source was removed from the permit.

(c). The No. 6 Fuel Oil Tank was removed from the facility.

(d). The purpose of the Towel Converting Area (Source ID No. 125E) was changed to another tissue converting line (ST-2). During the inspection, it was determined that the exhaust from the scrubber system associated with the air handling unit vents indoors. Since the emissions are not to the atmosphere, this is not a regulated source to the Department, and this source was added to the insignificant source list in Section G, Condition #002.

(e). The applicable requirements of 40 C.F.R. Part 63, Subpart DDDDD were added to the permit for Source ID Nos. 033, 034, and 035.

(f). The applicable requirements of 40 C.F.R. Part 63, Subpart ZZZZ were added to the permit for Source ID Nos. 131 and 204.

(g). The tissue pulpers (Source ID Nos. 133, 135, and 136) were determined to be insignificant sources because the bleaching chemicals that reacted to form chloroform (a VOC) were removed from the process in 2011. There are no more VOC emissions, and the sources do not have PM emissions from the pulping of paper. These tissue pulpers are included in the insignificant source list in Section G of this permit.

(h). The Solid Fuel Silos and Limestone Silo (Source ID Nos. 141, 142, and 147) are all contained inside the building with Boiler No. 10. Each silo has baghouses that vent inside that building. These sources are not under the authority of the Department since they do not emit PM to the outdoor atmosphere. These sources were added to the insignificant source list in Section G.

(i). Source ID No. 134 was removed from the permit. This source contained storage tanks that were also duplicated in the insignificant source list in Section G Condition #002(a) and Condition #002(b). Analysis of the emissions showed that this tanks can be considered insignificant sources with emissions that are well below the emission limits that were derived from RACT Operating Permit OP-23-0014A.

***** November 2016 *****

#017. APS No. 345485; Authorization No. 1148569: This action incorporates an administrative amendment of a Title V Operating Permit for Kimberly-Clark of Pennsylvania, LLC (Kimberly-Clark) to change the responsible official from Robert B. Cross to Simon Woods and to make updates to the permit conditions for Boiler No. 10, Source ID 035 for compliance with Boiler MACT (40 CFR Subpart DDDD). The following changes were made to the permit:

1) The responsible official was change to Simon Woods

2) New permit testing conditions were added providing Boiler MACT limestone injection testing requirements.

3) Wording was clarified to indicate that ongoing compliance with mercury, hydrogen chloride and total selected metals emissions will be demonstrated through performance testing and not by fuel analysis .

4) Permit conditions were added detailing the requirements for sorbent injection and continuous opacity monitoring.

***** November 2016 *****

#018 APS No. 345485; Authorization No. 1154595: This action incorporates an minor modification of a Title V Operating Permit for Kimberly-Clark of Pennsylvania, LLC (Kimberly-Clark) to implement a synthetic minor facility-wide VOC limit of 49 tons per year. This modification will include monitoring and recordkeeping requirements to ensure compliance with the new VOC limitation. This VOC restriction will classify Kimberly Clark as a minor VOC emission facility for the purposes of RACT II. The 125 TPY VOC

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RESTRICTIONS have been removed from sources: 103, 104 and 124 so as not to contradict the RACT II facility limit of 50 TPY VOC. EMISSION RESTRICTIONS of 0.1 lb NOx/mmBtu have been added to sources: 033, 034 and 104 for natural gas, and EMISSION RESTRICTIONS of 0.12 have been added to source 034 for #2 fuel oil.

***** April 2017 *****

#019 APS No. 345485; AUTH No. 1176621: This Title V Operating Permit has been opened for cause to incorporate an administrative amendment to remove the requirement to test for NOx and VOC during stack testing of source id 035 (Boiler 10).

***** March 2020 *****

#020 APS No. 345485; AUTH No. 1222802:

The following changes were made to the permit to reflect the current operation of the facility:

1. The following sources have been removed from the permit: Source ID 035 (Boiler 10), Source ID 128 (Cooling Tower-Cogen Facility), Source ID 140 (Solid Fuel Unloading Structure/crusher), Source ID 148A (Ash unloading room), Source ID 125D (T-10-4 Converting Area).
2. Facility's HESHAP status has changed from Major to Area. A 10 tpy individual HAP limit and a 25 tpy combined HAP emission limit has been added to Section C of the permit. Rice MACT (4Z's) conditions updated for emergency engines Source IDs: 130, 131, 204; Boiler MACT (5D's) requirements removed from Boilers 8 & 9; these boilers are not subject to 40 CFR 63 Subpart JJJJJ because they are gas fired only.
3. Responsible Official change to Mr. Jeff Hutter.
4. All references to #2 and #6 fuel oil be removed from permit.
5. DEP authorizes reduced monitoring (to monthly) of odor, visible emissions and fugitive emissions based upon a letter dated: January 23, 2004.
6. Use of safety data sheets to determine the VOC content of chemical flocculents is allowed in Source ID 126A (Filtered Water Treatment Plant).
7. 25 Pa. Code 123.22 requirements removed from Source IDs: 130, 131 & 204 (emergency engines) because sources are not combustion units.
8. Added Sulfur Compound Emissions restrictions in accordance with 25 Pa. Code 123.21 to Paper Machine 18 (Source ID 104).
9. The facility deregistered and permanently removed the 159,000-gallon No. 2 Fuel Oil Tank (listed in #002(b) above) in December 2017.
10. New Cooling Tower, for use with Cogeneration Turbines, found to be exempt in RfD 7726, on June 4, 2019.
11. Requirement to monitor indoor dust was removed from Section F (Alternative Operation Requirements) for ST-1 Coverting Area.
12. Two gas-fired gas compression engines were found to be exempt from the need of a plan approval via RfD # 8179. Combined NOx emissions for these engines shall be less than 100 lbs/hr, 1000 lbs/day, 2.75 tons per ozone season, and 6.6 tons per year.

***** October 2021 *****

#021 APS No. 345485; AUTH No. 1371374:

Incorporation of Plan Approval 23-0014J for the installation of three (3) new diesel-fired emergency generators (Source ID 149).

***** September 2022 *****

#022 APS No. 345485; AUTH No. 1406861

Incorporation of Plan Approval 23-0014I for the installation of two (2) new cogeneration units (Source IDs 101, 102, 110).

***** 2025 *****

#023 APS No. 345485; AUTH No. 1500186, Permit renewal

The following updates have been made in this renewal:

- 1) Facility SIC code updated to 2676
- 2) Removed: Source IDs: 130, 132 and 204 from Section D
- 3) Removed Group SG006; Conditions moved to Source ID 131 in Section D
- 4) Removed: Controls IDs: C19, C20 and C21 from Section A

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- 5) Removed Tanks 066A, 067A and 077A from Section C
- 6) Removed reference to Coal Yards from Section C
- 7) Removed Source ID 128 and Boilers 033 and 034 from Section C
- 8) Added Exempt Fire Pump Source ID 204A to Section D
- 9) Approved extended startups for Source ID's: 101, 102 and 110; each hour of startup counts as an event.
- 10) Updated permit with RACT III requirements for Source IDs: 103, 104, 124, 131
- 11) On October 11, 2022, DEP approved four open burns for the purpose of facility fire brigade training. In the future the permittee shall request, and DEP must approval each additional open burn event.
- 12) Removed Alternate Operating Scenario for Source ID 125G (ST-1).
- 13) Increased allowable pressure drop range for Source ID 125G.
- 14) Added Greenhouse Gas (GHG) reporting requirements.
- 15) Updated malfunction reporting phone number in Section C
- 16) Removed weekly monitoring and recordkeeping requirements for PM control device from Section C as specific requirements are given for each source in Section D.
- 17) Responsible Official change to Eric Bryant.
- 18) Increased allowable pressure drop range for Source ID 125C.
- 19) Removed CAM requirements from Source ID 124. Added: 1) pre-control total PM limit, 2) 30-operating day block average production limit 3) monthly and 12-month rolling post-control annual emissions monitoring and recordkeeping



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