



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM**

TITLE V/STATE OPERATING PERMIT

Issue Date: November 3, 2021

Effective Date: November 3, 2021

Expiration Date: November 2, 2026

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: 23-00034

Federal Tax Id - Plant Code: 23-1352688-1

Owner Information

Name: VILLANOVA UNIV
Mailing Address: 800 E LANCASTER AVE
VILLANOVA, PA 19085-1603

Plant Information

Plant: VILLANOVA UNIV/MAIN CAMPUS
Location: 23 Delaware County 23013 Radnor Township
SIC Code: 8221 Services - Colleges And Universities

Operator

Name: MARC FRICK [If different from owner]
Mailing Address: ITHAN AVE & ROUTE 30
VILLANOVA, PA 19085

Responsible Official

Name: ROBERT MORRO
Title: VICE PRES
Phone: (610) 519 - 4589 Email: robert.morro@villanova.edu

Permit Contact Person

Name: MATTHEW POLLART
Title: DIR OF ENV HEALTH
Phone: (610) 519 - 7192 Email: matthew.pollart@villanova.edu

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



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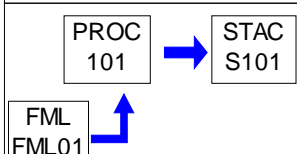
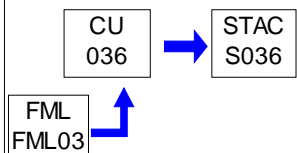
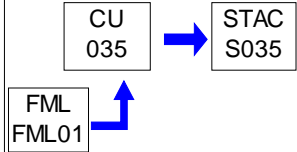
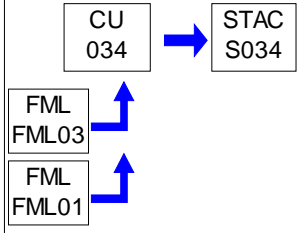
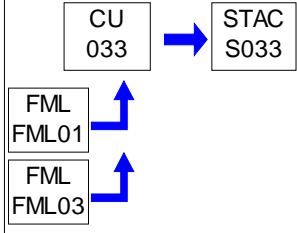
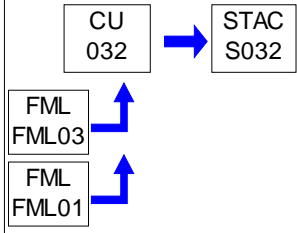
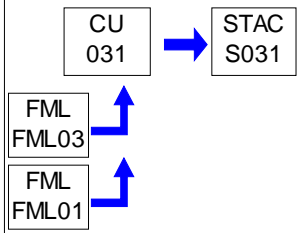
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput		Fuel/Material
031	BOILER 1 (TAMPELLA)	29.500	MMBTU/HR	
		28,902.000	CF/HR	Natural Gas
		215.000	Gal/HR	#2 Oil
032	BOILER 2 (TAMPELLA)	29.500	MMBTU/HR	
		215.000	Gal/HR	#2 Oil
		28,902.000	CF/HR	Natural Gas
033	BOILER 3 (KEELER)	25.000	MMBTU/HR	
		182.500	Gal/HR	#2 Oil
		23,810.000	CF/HR	Natural Gas
034	BOILER 4 (KEELER)	50.000	MMBTU/HR	
		365.000	Gal/HR	#2 Oil
		47,619.000	CF/HR	Natural Gas
035	42 MISC. HEATERS/ BOILERS (NATURAL GAS)	2.000	MMBTU/HR	
		2,000.000	CF/HR	Natural Gas
036	3 MISCELLANEOUS HEATERS/BOILERS (#2 OIL)	0.500	MMBTU/HR	
		5.000	Gal/HR	#2 Oil
101	12 NATURAL GAS & PROPANE EMERGENCY GENERATORS (RACT SIP)	990.000	CF/HR	Natural Gas
		3.000	Gal/HR	Propane
101A	NATURAL GAS AND PROPANE EMERGENCY GENERATORS - EXEMPT	2,115.000	CF/HR	Natural Gas
101B	6 NATURAL GAS EMERGENCY GENERATORS			
102	6 NO. 2 FUEL OIL EMERGENCY GENERATORS (RACT SIP)	6.800	Gal/HR	#2 Oil
103	18 NO. 2 FUEL OIL EMERGENCY GENERATORS (EXEMPT)	16.100	Gal/HR	#2 Oil
103A	NO.2 EMERGENCY ENGINES (EXEMPT) NSPS	26.000	Gal/HR	Diesel Fuel
104	IMMERSION PARTS WASHER		N/A	CLEANING SOLVENT
FML01	NATURAL GAS UTILITY LINE			
FML03	NO. 2 FUEL OIL TANK(S)			
S031	BOILER 1 STACK			
S032	BOILER 2 STACK			
S033	BOILER 3 STACK			
S034	BOILER 4 STACK			
S035	MISC COMB. STACKS			
S036	MISC. FUEL OIL NO. 2 HEATER/BOILER STACKS			
S101	MISC. NG EM. GEN. STACK			
S101A	STACKS FOR 3 NG EG			
S102	NO. 2 FUEL OIL EM. GEN. STACKS			
S103	19 EXEMPT EMERGENCY GENERATOR STACKS			
S103A	STACK FOR EXEMPT NSPS DIESEL GENERATORS			
Z104	IMMERSION PARTS WASHER FUGITIVES			

PERMIT MAPS



PERMIT MAPS





PERMIT MAPS



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

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

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

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

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

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

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

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

#005 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446(e), 127.503 & 127.704(b)]**Permit Renewal**

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

(b) The application for permit renewal shall include the current permit number, the appropriate permit renewal fee, a description of any permit revisions and off-permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.

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

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

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

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

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

**SECTION B. General Title V Requirements**

the Department.

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

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

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

(1) Enter at reasonable times upon the permittee's premises where a Title V source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;

(2) Have access to and copy or remove, at reasonable times, records that are kept under the conditions of this permit;

(3) Inspect at reasonable times, facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;

(4) Sample or monitor, at reasonable times, substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.

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

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

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

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

(1) Enforcement action

(2) Permit termination, revocation and reissuance or modification

(3) Denial of a permit renewal application

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

R3_Air_Apps_and_Notices@epa.gov

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

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

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

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

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

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

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

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

**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
Air Section
1650 Arch Street, 3ED21
Philadelphia, PA 19103

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 § 127.513]**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

**SECTION B. General Title V Requirements**

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.

#025 [25 Pa. Code §§ 127.511 & Chapter 135]**Recordkeeping Requirements**

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

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

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

(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.

#026 [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.

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

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

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

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

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

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

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

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

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

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

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

- (1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,
- (2) Certify that the Title V facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.

**SECTION B. General Title V Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(a) The permittee shall submit by March 1 of each year an annual emissions report for the preceding calendar year. The report shall include information for all active previously reported sources, new sources which were first operated during the preceding calendar year, and sources modified during the same period which were not previously reported. All air emissions from the facility should be estimated and reported.

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

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

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

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

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

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

002 [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)(1)-(9) (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

003 [25 Pa. Code §123.31]**Limitations**

A person may not 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.

004 [25 Pa. Code §123.41]**Limitations**

A person may not 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.

[For Source ID Nos. 031 and 032 in Section D of this permit, compliance with the above site level condition also demonstrates compliance with the applicable opacity requirements of 40 C.F.R. § 60.43c.]

**SECTION C. Site Level Requirements****# 005 [25 Pa. Code §123.42]****Exceptions**

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

- (a) When the presence of uncombined water is the only reason for failure 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)(1)-(9) (relating to prohibition of certain fugitive emissions).

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

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

- (a) The nitrogen oxide (NO_x) emissions from this facility shall not exceed 99.9 tons per year of NO_x on a 12-month rolling period.
- (b) Exceedences of sub-condition (a) of this permit condition will result in the facility being subjected to 25 Pa. Code §§ 129.96-129.100.

007 [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 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.**# 009 [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)

**SECTION C. Site Level Requirements**

- 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 II, 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".

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

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

- (a) 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/Plan Approval, 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 and the most current version of the DEP Source Testing Manual, 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.**# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

- (a) The permittee shall 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 for the next six month period.

**SECTION C. Site Level Requirements**

(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, complaints, monitoring results, and/or Department findings.

[For Source ID Nos. 031 and 032, compliance with the monitoring for visible emissions in the condition above also demonstrates compliance with the applicable requirements for a written site-specific monitoring plan for opacity in 40 C.F.R. § 60.47c(g).]

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

The permittee shall maintain records and calculations needed to demonstrate compliance with the NOx limit for the facility.

012 [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; and
- (c) the corrective action taken, if necessary, to abate the situation and prevent future occurrences.

013 [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.]

Operations personnel shall record their observations and findings, each time the facility is monitored for odors, fugitive emissions and visible emissions.

[For Source ID Nos. 031 and 032, compliance with the condition above also demonstrates compliance with the applicable requirements of 40 C.F.R. § 60.47c(g).]

014 [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). De minimus increases without notification to the Department;
- (b). De minimus increases with notification to the Department, via letter;
- (c). Increases resulting from a Request for Determination (RFD) to the Department; and
- (d). Increases resulting from the issuance of a plan approval and subsequent operating permit.

V. REPORTING REQUIREMENTS.**# 015 [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:

**SECTION C. Site Level Requirements**

(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 #026 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

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

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

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

(a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department at 484-250-5920. 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 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.

**SECTION C. Site Level Requirements****# 017 [25 Pa. Code §135.21]****Emission statements**

The permittee shall submit, by March 1 of each year, an annual emission statement for the preceding calendar year.

VI. WORK PRACTICE REQUIREMENTS.**# 018 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

A person responsible for any source specified in Condition #001(a) - (g) or (i) [25 Pa. Code § 123.1(a) - (g) or (i)], above, 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, as approved by the Department, 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 suitable chemicals, as approved by the Department, on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (c). Paving and maintenance of roadways.
- (d). Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

019 [25 Pa. Code §123.43]**Measuring techniques**

Visible emissions, pursuant to Condition #004 [25 Pa. Code § 123.41] of this Section, 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 qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

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

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

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

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

The permittee shall ensure that sources, listed in Section A of this permit, and air cleaning devices are operated and maintained in a manner consistent with good operating practices.

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

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

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

VII. ADDITIONAL REQUIREMENTS.**# 023 [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).

VIII. COMPLIANCE CERTIFICATION.

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

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

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

**SECTION D. Source Level Requirements**

Source ID: 031

Source Name: BOILER 1 (TAMPELLA)

Source Capacity/Throughput: 29.500 MMBTU/HR

28,902.000 CF/HR

Natural Gas

215.000 Gal/HR

#2 Oil

Conditions for this source occur in the following groups: G01

G02

G04

G05

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall use only natural gas and No. 2 Fuel Oil in this combustion source.

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).

**SECTION D. Source Level Requirements****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: 032

Source Name: BOILER 2 (TAMPELLA)

Source Capacity/Throughput:	29.500	MMBTU/HR	
	215.000	Gal/HR	#2 Oil
	28,902.000	CF/HR	Natural Gas

Conditions for this source occur in the following groups: G01
G02
G04
G05

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

001 [25 Pa. Code §127.441]
Operating permit terms and conditions.

The permittee shall use only natural gas and No. 2 Fuel Oil in this combustion source.

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).

**SECTION D. Source Level Requirements****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. *****

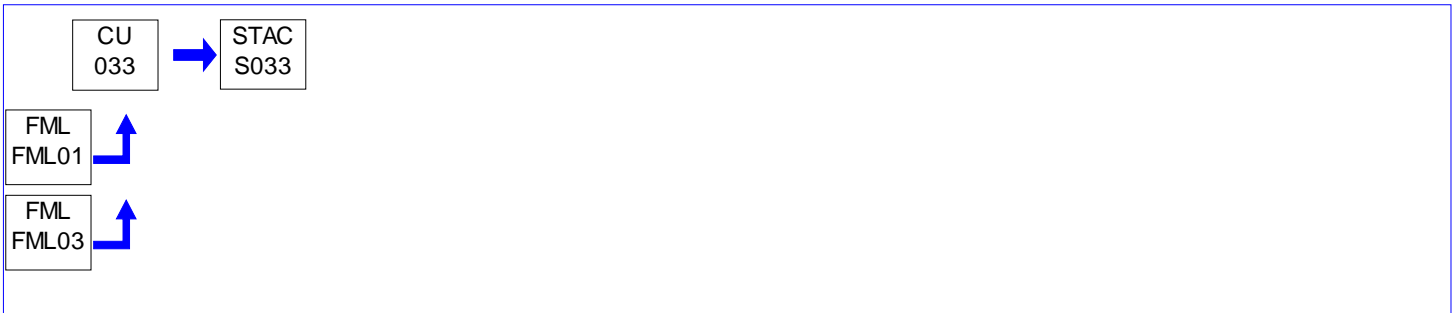
**SECTION D. Source Level Requirements**

Source ID: 033

Source Name: BOILER 3 (KEELER)

Source Capacity/Throughput: 25.000 MMBTU/HR
 182.500 Gal/HR #2 Oil
 23,810.000 CF/HR Natural Gas

Conditions for this source occur in the following groups: G01
 G03
 G04
 G05

**I. RESTRICTIONS.****Fuel Restriction(s).****# 001 [25 Pa. Code §123.22]****Combustion units**

No person may permit the use of commercial fuel oil in this combustion unit which contains sulfur in excess of 500 ppm (0.05%) by weight.

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

The permittee shall use either Natural Gas or No.2 fuel oil to which there has been no reclaimed or waste oil or other waste materials added.

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).

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

VII. ADDITIONAL REQUIREMENTS.

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

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

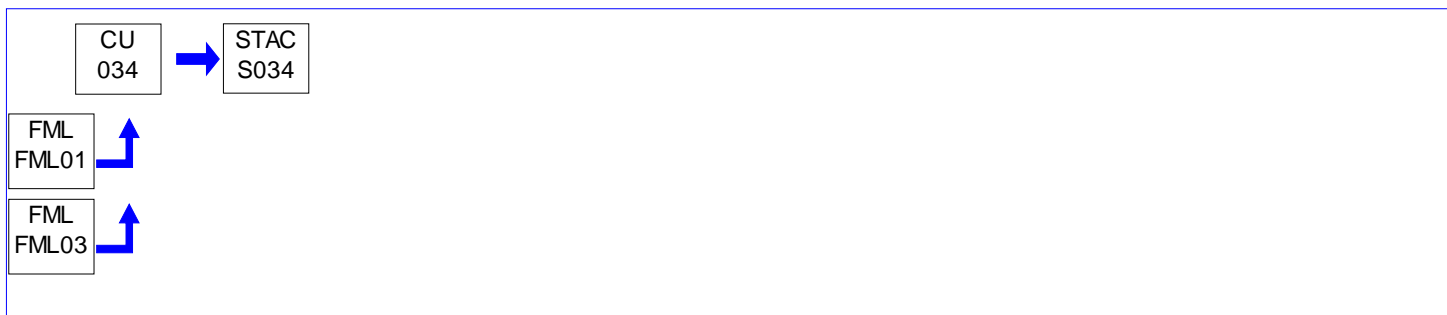
**SECTION D. Source Level Requirements**

Source ID: 034

Source Name: BOILER 4 (KEELER)

Source Capacity/Throughput: 50.000 MMBTU/HR
 365.000 Gal/HR #2 Oil
 47,619.000 CF/HR Natural Gas

Conditions for this source occur in the following groups: G01
 G03
 G04
 G05

**I. RESTRICTIONS.****Fuel Restriction(s).****# 001 [25 Pa. Code §123.22]****Combustion units**

No person may permit the use of commercial fuel oil in this combustion unit which contains sulfur in excess of 500 ppm (0.05%) by weight.

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

The permittee shall use either Natural Gas or No.2 fuel oil to which there has been no reclaimed or waste oil or other waste materials added.

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).



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

VII. ADDITIONAL REQUIREMENTS.

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

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

**SECTION D. Source Level Requirements**

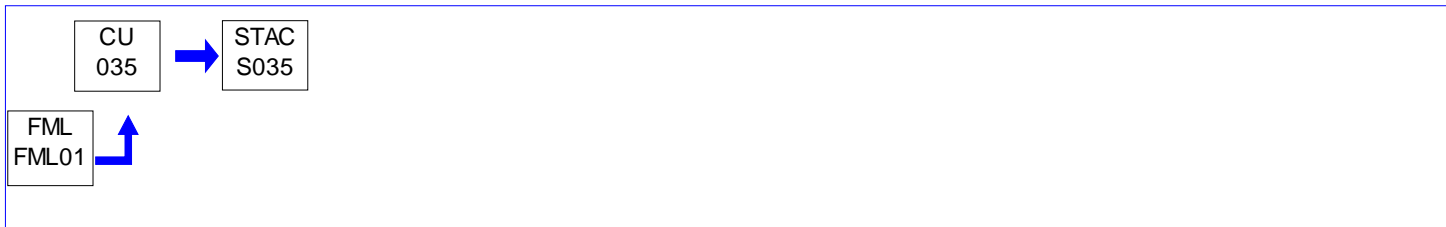
Source ID: 035

Source Name: 42 MISC. HEATERS/ BOILERS (NATURAL GAS)

Source Capacity/Throughput: 2.000 MMBTU/HR

2,000.000 CF/HR

Natural Gas

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

001 [25 Pa. Code §123.22]

Combustion units

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from this combustion unit (Source ID #035), in excess of the rate of 1.0 pounds per million Btu of heat input.

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall use only natural gas as fuel for the heat units included under Source ID No. 035.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The permittee shall monitor the following while Source ID No. 035 is in operation:

- (a). The amount of fuel consumed per month; or,
- (b). The monthly operating hours.

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The permittee shall keep appropriate records to demonstrate that this Source ID No. 035 is being maintained and operated in accordance with manufacturer's specifications.

**SECTION D. Source Level Requirements****# 005 [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 records of the following while Source ID No. 035 is in operation:

- (a). The amount of fuel consumed per month; or,
- (b). The monthly operating hours.

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

- (a). The permittee shall keep a list of the miscellaneous heaters and boilers that are included under Source ID No. 035 on file.
- (b). The list of miscellaneous heaters and boilers shall be made available to the Department upon request.
- (c). The Department shall be notified of any changes made to the list of miscellaneous heaters and boilers that are included under this source.

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

The permittee shall calculate and record the total emissions of NO_x and VOC from this source 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.**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall operate and maintain this Source ID No. 035 in accordance with manufacturer's specifications and good air pollution control practices.

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: 036

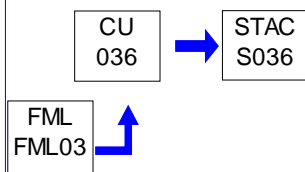
Source Name: 3 MISCELLANEOUS HEATERS/BOILERS (#2 OIL)

Source Capacity/Throughput:

0.500 MMBTU/HR

5.000 Gal/HR

#2 Oil

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.22]****Combustion units**

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from this combustion unit (Source ID #036), in excess of the rate of 1.0 pounds per million Btu of heat input.

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

The permittee shall use only No. 2 fuel oil as fuel for the heating units included under Source ID No. 036.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 129.91 through 129.95 and 123.22(e)(2)]

The maximum sulfur content in commercial fuel oil shall not exceed 0.0015% (15 ppm) by weight, except as specified in subparagraphs (ii) and (iii) of 25 Pa. Code § 123.22(e)(2).

II. TESTING REQUIREMENTS.**# 004 [25 Pa. Code §139.16]****Sulfur in fuel oil.**

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

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

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

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

**SECTION D. Source Level Requirements****III. MONITORING REQUIREMENTS.****# 005 [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 monitor the following while Source ID No. 36 is in operation:

- (a). The amount of fuel consumed per month; or,
- (b). The monthly operating hours.

IV. RECORDKEEPING REQUIREMENTS.**# 006 [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 keep appropriate records to demonstrate that this Source ID No. 036 is being maintained and operated in accordance with manufacturer's specifications.

007 [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 records of the following while Source ID No. 036 is in operation:

- (a). The amount of fuel consumed per month; or,
- (b). The monthly operating hours.

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

(a). The permittee shall keep a list of the miscellaneous heaters and boilers that are included under Source ID No. 036 on file.

(b). The list of miscellaneous heaters and boilers shall be made available to the Department upon request.

(c). The Department shall be notified of any changes made to the list of miscellaneous heaters and boilers that are included under this source.

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

For each delivery of No. 2 Fuel Oil or diesel fuel for this source, the permittee shall keep records of the results of testing the sulfur content or supplier certifications of the sulfur content of the fuel consumed for the heaters or boilers under this source.

The permittee shall receive with each fuel oil delivery an electronic or paper record which legibly and conspicuously contains the following information:

- (a) the date of the sale or transfer;

**SECTION D. Source Level Requirements**

- (b) the name and address of the seller;
- (c) the name and address of the buyer;
- (d) the delivery address;
- (e) the volume of commercial fuel oil purchased; and
- (f) the identification of the sulfur content of the shipment of fuel oil, determined using the sampling and testing methods specified in the testing requirement above, expressed as one of the following statements:
 - (1) For a shipment of No. 2 and lighter commercial fuel oil, "The sulfur content of this shipment is 500 ppm or below."
 - (2) For a shipment of No. 4 commercial fuel oil, "The sulfur content of this shipment is 2,500 ppm or below."
 - (3) For a shipment of No. 5, No. 6 and heavier commercial fuel oil, "The sulfur content of this shipment is 5,000 ppm or below."

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

The permittee shall calculate and record the total emissions of NOx and VOC from this source 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.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall operate and maintain this Source ID No. 036 in accordance with manufacturer's specifications and good air pollution control practices.

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: 101

Source Name: 12 NATURAL GAS & PROPANE EMERGENCY GENERATORS (RACT SIP)

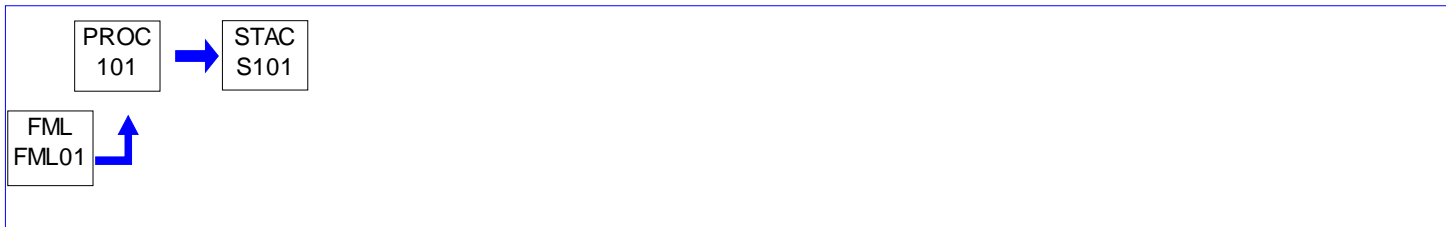
Source Capacity/Throughput:

990.000 CF/HR

Natural Gas

3.000 Gal/HR

Propane

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

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission from Source ID #101 into the outdoor atmosphere of particulate matter in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission from Source ID #101 into outdoor atmosphere in a manner that the concentration of Sulfur Oxides (SO_x), expressed as Sulfur Dioxide (SO₂), in the effluent gas in excess of 500 parts per million, by volume, dry basis.

Operation Hours Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The permittee shall operate each emergency generator not more than 500 hours in a consecutive twelve (12) month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

004 [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 monitor the number of hours operated per month per generator for Source ID No. 101.

IV. RECORDKEEPING REQUIREMENTS.

005 [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]

**SECTION D. Source Level Requirements**

The permittee shall keep appropriate records to demonstrate that the Source ID No. 101 is being maintained and operated in accordance with manufacturer's specifications.

006 [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 records of the number of hours operated per month per generator for Source ID #101.

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

The permittee shall calculate and record the total emissions of NO_x from this source 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.**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall operate and maintain the Source ID No. 101 in accordance with manufacturers specifications and good air pollution control practices to demonstrate compliance with Conditions #001 and #002 of this Section.

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

(a). The following emergency genrators are included under Source ID No. 101:

- (1). Kohler Model No. 30R82, Serial No. 334652, Spec. No. 91402A (natural gas; 220 cf/hr fuel input). Removed 12/2014.
- (2). Kohler Model No. 40R82, Serial No. 314688, Spec. No. 78402A (natural gas; 470 cf/hr fuel input).
- (3). Kohler Model No. 5RMK62, Serial No. 301306, Spec. No. 9005A (natural gas; 110 cf/hr fuel input). Removed 3/2016.
- (4). Kohler Model No. 45R78, Serial No. 324000, Spec. No. 78413A5 (natural gas; 470 cf/hr fuel input). Removed 3/2016.
- (5). Kohler Model No. 32.5RZ82, Serial No. 122564, Spec. No. 17307A82-28-55-58 (propane; 145 cf/hr fuel input).
- (6). Onan Model No. 30.0EK-15R, Serial No. F770245028, Spec. No. 7512J (natural gas; 320 cf/hr fuel input).
- (7). Kohler Model No. 25REZGC (propane; 156 cf/hr fuel input). Removed.
- (8). Onan Model No. 15.0JC-18R31, Serial No. J760177920, Spec. No. 14668AA (propane; 73 cf/hr fuel input).
- (9). Kohler Model No. 85R72, Serial No. 240654, Spec. No. 5733C (natural gas; 600 cf/hr fuel input).
- (10). Onan Model No. 30.0EK-15R, Serial No. F77025030, Spec. No. 7512J (natural gas; 320 cf/hr fuel input).
- (11). Onan Model No. 15.0JC-18R31, Serial No. J760177924, Spec No. 14668AA (propane; 73 cf/hr heat input each).
- (12). Onan Model No. 15.0JC-18R31, Serial No. J760177918, Spec No. 14668AA (propane; 73 cf/hr heat input each).
- (13). Kohler Model No. 55R82, Serial No. 273959, Spec. No. 7971B (propane; 145 cf/hr fuel input). Removed..
- (14). Onan Model No. 30EK-15R, Serial No. F770245029, Spec, No. 7512 (natural gas; 320 cf/hr fuel input). Removed.
- (15). Onan Model No. 35EK, Serial No. C950570918, Spec. No. 62479C (natural gas; 145 cf/hr fuel input).Removed.
- (16). Kohler Model No. 30RZ72, Serial No. 93907, Spec. No. 911217A (natural gas; 320 cf/hr fuel input).
- (17). Onan Model No. 15.0JC-18R31, Serial No. J760177917, Spec. No. 14668AA (propane; 73 cf/hr fuel input).
- (18). Cummings Model No. GFLB (natural gas; 11,352 cf/hr fuel input).

**SECTION D. Source Level Requirements**

(19). Kohler Model No. 150REZGC (natural gas; 1965 cf/hr fuel input).

(b). The permittee shall only use the fuels specified for each of the emergency generators listed under paragraph (a) above.

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

**SECTION D. Source Level Requirements**

Source ID: 101A

Source Name: NATURAL GAS AND PROPANE EMERGENCY GENERATORS - EXEMPT

Source Capacity/Throughput: 2,115.000 CF/HR Natural Gas

Conditions for this source occur in the following groups: G07

**I. RESTRICTIONS.**

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).

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

Source ID No. 101A consists of the following emergency generators that were installed after the RACT permit was issued and are subject to 40CFR60, Subpart JJJJ:

1. Kohler 80REZGD, Serial No. SGM32DHCJ, Spec. No.GM81112-GA1, Natural gas, 1185 CF/hr.
2. MTU Model GS00200N6SRA509084, Serial No. 347669-1-1-0712, Natural gas, 2115 CF/hr.
3. Kohler Model 100REZGD, Serial No.SGM32BP2W, Natural gas, 220 CF/hr.

**SECTION D. Source Level Requirements**

- 4 Kohler Model 250REZGXB, Serial No. SNSGM32FWCN, Natural gas, 2782 CF/hr.
5. Kohler Model No. 40REZG, natural gas; 584 cf/hr. (RFD 6281)
6. Cummings Model No. GFLB, natural gas; 11,352 cf/hr (RFD 6281)
7. Kohler Model No. 50REZGB, natural gas; 744 cf/hr (RFD 6281)
8. Kohler Model No. 150REZGC, natural gas; 1965 cf/hr (RFD 5834)
9. Kohler Model No. 25REZG, natural gas; 156 cf/hr (RFD 5834)
10. Kohler Model No. 125REZGC, natural gas; 1511 cf/hr (RFD 5478)
11. Kohler Model No. 125REZGD, natural gas; 1185 cf/hr (RFD 5043)
12. Kohler Model No. 25REZG, propane; 156 cf/hr
13. Kohler Model No. 50REZGC, natural gas; 771 cf/hr (RFD 6672)
14. Generac Model No. QT080, natural gas; 1154 cf/hr (RFD 7819)
15. Kohler Model No. DG300, natural gas; 3426.3 cf/hr (RFD 8103)

002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60 Subpart JJJJ Table 1] Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines Table 1 to Subpart JJJJ of Part 60.--

Table 1 to Subpart JJJJ of Part 60 - NO_x, CO, and VOC Emission Standards for Stationary Emergency Engines >25 HP.

Engine Type	Maximum Engine Power	Manufacture Date	Emission Standards*					
			NO _x (g/HP-hr)	CO	VOC***	NO _x (ppmvd @ 15% O ₂)	CO	VOC***
Emergency	25<HP<130	1/1/2009	10**	387	-----	-----	-----	-----
	HP>130		2.0	4.0	1.0	160	540	86

*Owners and operators of stationary non-certified SI engines may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O₂.

**The emission standards applicable to emergency engines between 25 HP and 130 HP are in terms of NO_x + HC.

*** For purposes of this subpart, when calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included.

003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4233] Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines What emission standards must I meet if I am an owner or operator of a stationary SI internal combustion engine?

(a) Owners and operators of emergency stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) and less than 75 KW (100 HP) (except gasoline and rich burn engines that use LPG) must comply with the emission standards in Table 1 to this subpart for their emergency stationary SI ICE. Owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) and less than 75 KW (100 HP) manufactured prior to January 1, 2011, that were certified to the standards in Table 1 to this subpart applicable to engines with a maximum engine power greater than or equal to 100 HP and less than 500 HP, may optionally choose to meet those standards.

**SECTION D. Source Level Requirements**

(b) Owners and operators of stationary emergency SI ICE with a maximum engine power greater than 19 KW (25 HP), that are modified or reconstructed after June 12, 2006, must comply with the same emission standards as those specified in paragraph (a), except those emergency engines greater than or equal to 130 HP (97 KW) must meet a nitrogen oxides (NOx) emission standard of 3.0 grams per HP-hour (g/HP-hr), a CO emission standard of 4.0 g/HP-hr, and a volatile organic compounds (VOC) emission standard of 1.0 g/HP-hr, or a NOX emission standard of 250 ppmvd at 15 percent oxygen (O2), a CO emission standard 540 ppmvd at 15 percent O2, and a VOC emission standard of 86 ppmvd at 15 percent O2, where the date of manufacture of the emergency engine is prior to January 1, 2009.

004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4234]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

How long must I meet the emission standards if I am an owner or operator of a stationary SI internal combustion engine?

Owners and operators of stationary SI ICE must operate and maintain stationary SI ICE that achieve the emission standards as required in §40 CFR 60.4233 over the entire life of the engine.

005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4236]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

What is the deadline for importing or installing stationary SI ICE produced in the previous model year?

For emergency stationary SI ICE with a maximum engine power of greater than 19 KW (25 HP), owners and operators may not install engines that do not meet the applicable requirements in §40 CFR 60.4233 after January 1, 2011.

006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4237]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

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

(a) Starting on January 1, 2011, for an emergency stationary SI ICE that is greater than or equal to 130 HP (97 KW) and less than 500 HP (373 HP) that was built on or after January 1, 2011, and does not meet the standards applicable to non-emergency engines, the owner or operator must install a non-resettable hour meter.

(b) The owner or operator of an emergency stationary SI ICE that is less than 130 HP, was built on or after July 1, 2008, and does not meet the standards applicable to non-emergency engines, must install a non-resettable hour meter upon startup of the emergency engine.

007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

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

(a) The owner or operator of an emergency stationary ICE must operate the emergency stationary ICE according to the requirements in the following paragraphs (1) through (3). In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in the following paragraphs (1) through (3) is prohibited. If the engine is not operated according to the requirements in the following paragraphs (1) through (3), the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

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

(2) The emergency stationary ICE may be operated for any combination of the purposes specified in paragraphs (2)(i) through (2)(iii) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (3) counts as part of the 100 hours per calendar year allowed by this paragraph (2).

(i) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.

**SECTION D. Source Level Requirements**

(ii) Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see §60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

(iii) Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

(3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (2). Except as provided in paragraph (3)(i), the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(i) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following are met.

A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;

(B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(D) The power is provided only to the facility itself or to support the local transmission and distribution system.

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

(b) Owners and operators of stationary SI ICE may operate their engines using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, the owners and operators are required to conduct a performance test to demonstrate compliance with the emission standards of §40 CFR 60.4233.

(c) Owner or operators of stationary SI ICE that are less than or equal to 500 HP that purchase non-certified engines or do not operate and maintain the certified stationary SI internal combustion engines and control devices according to the manufacturer's written emission-related instructions, are required to perform initial performance testing, but are not required to conduct subsequent performance testing unless the stationary engine is rebuilt or undergoes major repair or maintenance. A rebuilt stationary SI ICE means an engine that has been rebuilt as that term is defined in 40 CFR 94.11(a).

008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

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

a) Owners or operators of stationary SI ICE must keep records of the following information:

(1) All maintenance conducted on the engine.

(2) If the stationary SI ICE is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable.

**SECTION D. Source Level Requirements**

(3) If the stationary SI ICE is not a certified engine or is a certified engine operating in a non-certified manner and subject to §60.4243(a)(2), documentation that the engine meets the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable.

(b) For all stationary emergency SI ICE greater than or equal to 130 HP and less than 500 HP manufactured on or after July 1, 2011 that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. For all stationary emergency SI ICE greater than 25 HP and less than 130 HP manufactured on or after July 1, 2008, that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for nonemergency operation.

009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

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

The owner or operator of an emergency stationary SI ICE with a maximum engine power more than 100 HP (75 kW) that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §60.4243(d)(2)(ii) and (iii) or that operates for the purposes specified in §60.4242(d)(3)(i), must submit an annual report according to the requirements in paragraphs (1) through (3).

(1) The report must contain the following information:

- (i) Company name and address where the engine is located.
- (ii) Date of the report and beginning and ending dates of the reporting period.
- (iii) Engine site rating and model year.
- (iv) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
- (v) Hours operated for the purposes specified in §60.4243(d)(2)(ii) and (iii), including the date, start time, and end time for engine operation for the purposes specified in §60.4243(d)(2)(ii) and (iii).
- (vi) Number of hours the engine is contractually obligated to be available for the purposes specified in §60.4243(d)(2)(ii) and (iii).
- (vii) Hours spent for operation for the purposes specified in §60.4243(d)(3)(i), including the date, start time, and end time for engine operation for the purposes specified in §60.4243(d)(3)(i). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.

(2) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.

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

**SECTION D. Source Level Requirements**

Source ID: 101B

Source Name: 6 NATURAL GAS EMERGENCY GENERATORS

Source Capacity/Throughput:

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 any source in excess of 0.04 grains per dry standard cubic foot, pursuant to 25 Pa. Code § 123.13(c)(1)(i).

002 [25 Pa. Code §123.21]**General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from any source group in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 ppmvd.

003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60 Subpart JJJJ Table 1] Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines Table 1 to Subpart JJJJ of Part 60.--

NO_x, CO, and VOC Emission Standards for Stationary Emergency Engines >25 HP.

Engine Type	Maximum Manufacture Emission Standards*							
	Engine Power	Date	NO _x CO VOC*** (g/HP-hr)			NO _x CO VOC*** (ppmvd @ 15% O ₂)		
Emergency	HP>130	1/1/2009	2.0	4.0	1.0	160	540	86

*Owners and operators of stationary non-certified SI engines may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O₂.

*** For purposes of this subpart, when calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included.

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

The permittee shall operate each emergency generator not more than 500 hours in a consecutive twelve (12) month period.

II. TESTING REQUIREMENTS.

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

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

The permittee shall monitor the number of hours operated per month per generator.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. §60.4245(4)(b)]

The permittee shall maintain records of:

**SECTION D. Source Level Requirements**

- (a). maintenance performed on each engine
- (b). documentation that engines meet applicable emission limits.
- (c). the reason for operating this emergency generator per each event (including, but not limited to, maintenance testing, readiness testing, and operation during power outage).
- (d). the number of hours operated per month per generator.

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.**

The owner and operator shall install, maintain and operate the source in accordance with the manufacturer's specifications and with good operating practices.

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

Each engine shall be equipped with a non-resettable hour meter.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. §60.4243(d)]

The permittee shall operate each engine in accordance with the most recent version of 40 C.F.R. §60.4243 (d). In contrary, the engine(s) will not be considered as an emergency engine(s) and must meet all the requirements for a non-emergency engine as given under 40 C.F.R. Part 60 Subpart JJJJ.

010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?**

Owners and operators of stationary SI ICE must operate and maintain stationary SI ICE that achieve the emission standards as required in §60.4233 over the entire life of the engine.

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

Source ID No. 101B consists of the following six emergency generators that were installed after the RACT permit was issued and are subject to 40 C.F.R. 60, Subpart JJJJ:

1. One Cummins Model No. C80 N6, 1083.5 scf/hr.
2. Four Model No. CAT DG100-2, 1315 scf/hr.
3. One Olympian LG250, 2983 scf/hr.

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

**SECTION D. Source Level Requirements**

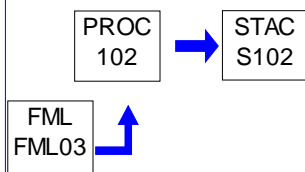
Source ID: 102

Source Name: 6 NO. 2 FUEL OIL EMERGENCY GENERATORS (RACT SIP)

Source Capacity/Throughput:

6.800 Gal/HR

#2 Oil

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

No person may permit the emission from Source ID #102 into the outdoor atmosphere of particulate matter in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

No person may permit the emission from Source ID #102 into outdoor atmosphere in a manner that the concentration of Sulfur Oxides (SO_x), expressed as Sulfur Dioxide (SO₂), in the effluent gas in excess of 500 parts per million, by volume, dry basis.

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

The sulfur content of the No. 2 Fuel Oil consumed by this source shall be less than or equal to 0.0015 percent by weight.

[Compliance with the condition above assures compliance with the sulfur dioxide limit in Condition #002.]

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

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

The permittee shall operate each emergency generators not more than 500 hours in a consecutive twelve (12) month period.

II. TESTING REQUIREMENTS.**# 005 [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).

**SECTION D. Source Level Requirements**

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

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

III. MONITORING REQUIREMENTS.

006 [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 monitor the number of hours operated per month per generator for Source ID No.102.

IV. RECORDKEEPING REQUIREMENTS.

007 [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 records of the following items for Source ID No. 102:

(a). The number of hours operated per month per generator.

(b). The percent sulfur content in the each shipment of diesel/No. 2 fuel oil through records of the fuel testing results or supplier certifications.

008 [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 keep appropriate records to demonstrate that the Source ID No. 102 is being maintained and operated in accordance with manufacturer's specifications.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall calculate and record the total emissions of NOx from this source 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.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The permittee shall operate and maintain the Source ID No. 102 in accordance with manufacturers specifications and good

**SECTION D. Source Level Requirements**

air pollution control practices to demonstrate compliance with Conditions #001 and #002 of this Section.

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

(a). The following emergency generators are included under Source ID No. 102:

- (1). Kohler Model No. 80R0ZJ81, Serial No. 336675, Spec. No. 189517-81 (6.1 gallons/hr fuel input).
- (2). Kohler Model No. 80R0ZJ81, Serial No. 336673, Spec. No. 189517-81 (6.1 gallons/hr fuel input).
- (3). Kohler Model No. 80R0ZJ81, Serial No. 336678, Spec. No. 189517-81 (6.1 gallons/hr fuel input).
- (4). Hol-Gar Model No. BRF-400, Serial No. 332305, Spec. No. 350KW (16.1 gallons/hr fuel input).Removed.
- (5). Kohler Model No. 10RCOP81; Serial No. 335727, Spec. No. 96337A (0.75 gallon/hr fuel input).
- (6). Onan Model No. 150 DGFA, Serial No. F910398355, Spec. No. 51441F (6.1 gallons/hr fuel input).
- (7). Kohler Model No. 80R0Z271, Serial No. 166877, Spec. No. 182001-71 (5.75 gallons/hr fuel input).Removed.

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

**SECTION D. Source Level Requirements**

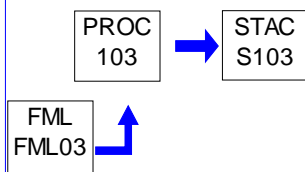
Source ID: 103

Source Name: 18 NO. 2 FUEL OIL EMERGENCY GENERATORS (EXEMPT)

Source Capacity/Throughput:

16.100 Gal/HR

#2 Oil

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

No person may permit the emission from Source ID #102 into the outdoor atmosphere of particulate matter in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

No person may permit the emission from Source ID #102 into outdoor atmosphere in a manner that the concentration of Sulfur Oxides (SO_x), expressed as Sulfur Dioxide (SO₂), in the effluent gas in excess of 500 parts per million, by volume, dry basis.

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

The combined emissions of nitrogen oxides (NO_x) from all exempt emergency generators identified in sources 101A, 103 and 103A shall be limited to 100 pounds per hour, 1,000 pounds per day, 2.75 tons per ozone season, and 6.6 tons per year on a 12- month rolling basis.

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

The sulfur content of the No. 2 Fuel Oil consumed by this source shall be less than or equal to 0.0015 percent by weight.

[Compliance with the condition above assures compliance with the sulfur dioxide limit in Condition #002.]

II. TESTING REQUIREMENTS.**# 005 [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).

(b). The testing requirements in subpart (a), above, shall be waived in the event that a certified receipt, showing the percent

**SECTION D. Source Level Requirements**

sulfur in the fuel, is obtained from the fuel supplier each time a delivery is made.

III. MONITORING REQUIREMENTS.

006 [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 monitor the number of hours operated per month per generator for Source ID No. 103.

IV. RECORDKEEPING REQUIREMENTS.

007 [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 records of the following items for Source ID No. 103:

- (a). The number of hours operated per month per generator.
- (b). The percent sulfur content in the each shipment of diesel/No. 2 fuel oil through records of the fuel testing results or supplier certifications.

008 [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 keep appropriate records to demonstrate that the Source ID No. 103 is being maintained and operated in accordance with manufacturer's specifications.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall calculate and record the total emissions of NOx from this source 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.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The permittee shall operate and maintain the Source ID No. 103 in accordance with manufacturers specifications and good air pollution control practices to demonstrate compliance with Conditions #001 and #002 of this Section.

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

Source ID No. 103 consists of the following emergency generators that were installed after the RACT permit was issued:

- (a). Kohler Model No. 80RO75-81, Serial No. 336741, Spec. No. 189517-81 (6.1 gallons/hr fuel input).
- (b). Onan Model No. DGEA-3382052, Serial No. K990018806, Spec. No. L (6.1 gallons/hr fuel input).
- (c). Onan Model No. 125DGEA Serial No. D970636254, Spec. No. 87743K (6.1 gallons/hr fuel input).
- (d). Onan Model No. 75.0DYC-15R50, Serial No. A790386156, Spec. No. 20413K (5.75 gallons/hr fuel input).
- (e). Onan Model No. DGHE-5763467, Serial No. E060924620, Spec. No. B (4.5 gallons/hr fuel).
- (f). Cummins Model No. DSFAE-7282341, Serial No. K080220468, Spec. No. A (3.8 gallons/hr fuel input).
- (g). Onan Model No. 25DKAF, Serial No. E970638189, Spec. No. 88237C (1.4 gallons/hr fuel input).
- (h). Detriot Diesel, Model No. 8064-7412, Serial No. 6VF219209.
- (i). Katolight Model No. D275FRJ4, Serial No. LM241070, Spec. No. 79818 (6.1 gallons/hr fuel input).
- (j). Katolight Model No. D180FPJ4, Serial No. WA522230, Spec. No. 61374-2 (9.2 gallons/hr fuel input).
- (k). Katolight Model No. D180FPJ4, Serial No. WA522421, Spec. No. 61374-1 (9.2 gallons/hr fuel input).
- (l). Onan Model No. DGFA4958634, Serial No. DO10230749, Spec. No. M (7.5 gallons/hr fuel input).
- (m). Caterpillar Model No. D150-8, Serial No. CAT00C66HN6D00845 (4.5 gallons/hr fuel input).
- (n). Kohler Model No. 135ROZJ, Serial No. 724489, Spec. No. PA-189724 (7.9 gallons/hr fuel input).
- (o). Hol-Gar Model No. BRF-400, Serial No. 332306; Spec. No. 350KW (16.1 gallons/hr fuel input). Removed 2/2012.
- (p). Katolight Model No. D15FPC4, Serial No. LM313499, Spec. No. 46453 (1.1 gallons/hr fuel input).
- (q). Katolight Model No. D200FPJ4, Serial No. LM237478, Spec. No. 67588 (10.3 gallons/hr fuel input).
- (r). Onan Model No. 25DKAF, Serial No. E970638187, Spec. No. 88236C (1.4 gallons/hr fuel input).
- (s). Caterpillar Model No. 3208 SR4, Serial No. 6GA01218, Spec. No. 4007433 (6.5 gallons/hr, fuel input). Removed.
- (t). Kohler Model No. 350REOZDD (27.0 gallons/hr fuel input). RFD 9203

- (u). MTU Model No. 8V1600DS350 (26.5 gallons/hr fuel input). RFD 9203

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

**SECTION D. Source Level Requirements**

Source ID: 103A

Source Name: NO.2 EMERGENCY ENGINES (EXEMPT) NSPS

Source Capacity/Throughput:

26.000 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: G07
GO6

**I. RESTRICTIONS.**

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).

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.

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**

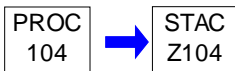
Source ID: 104

Source Name: IMMERSION PARTS WASHER

Source Capacity/Throughput:

N/A

CLEANING SOLVENT

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

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

(b) Paragraph (a) above does not apply:

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

II. TESTING REQUIREMENTS.

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

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

The permittee shall monitor the amount of virgin solvent added and amount of waste solvent removed per delivery.

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

The permittee shall keep records of the amount of virgin solvent added and amount of waste solvent removed per delivery.

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

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

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

(b). A person who operates a cold cleaning machine shall maintain for at least 2 years and shall provide to the Department,

**SECTION D. Source Level Requirements**

on request, the information specified in paragraph (a) above. An invoice, bill of sale, certificate that corresponds to a number of sales, Material Safety Data Sheet (MSDS), or other appropriate documentation acceptable to the Department may be used to comply with this section.

V. REPORTING REQUIREMENTS.

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

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

The permittee shall operate and maintain this source in accordance with manufacturer's specifications.

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

Immersion cold cleaning machines shall:

(a). Have a permanent, conspicuous label summarizing the operating requirements in Condition #007. In addition, the label shall include the following discretionary good operating practices:

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

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

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

(b). Be equipped with a cover that shall be closed at all times except during cleaning of parts or the addition or removal of solvent. For remote reservoir cold cleaning machines which drain directly into the solvent storage reservoir, a perforated drain with a diameter of not more than 6 inches shall constitute an acceptable cover.

007 [25 Pa. Code §129.63]**Degreasing operations**

Cold cleaning machines shall be operated in accordance with the following procedures:

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

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

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

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

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

**SECTION D. Source Level Requirements****# 008 [25 Pa. Code §129.63]****Degreasing operations**

Immersion cold cleaning machines shall have a freeboard ratio of 0.50 or greater.

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: G01

Group Description: Boiler <50 mmbtu/hr

Sources included in this group

ID	Name
031	BOILER 1 (TAMPELLA)
032	BOILER 2 (TAMPELLA)
033	BOILER 3 (KEELER)
034	BOILER 4 (KEELER)

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

No person may permit the emission into the outdoor atmosphere of particulate matter from this combustion unit in excess of the rate of 0.4 pound per million Btu of heat input.

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

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

(a). The permittee shall perform a stack test using the Department-approved procedures, every five (5) years or once within the life of the permit. Such testing shall be conducted at least 12 months prior to the expiration of this permit. The stack test results shall be submitted for review no later than 6 months before the permit expiration.

(b). The stack test shall, at a minimum, test for particulate matter, sulfur dioxide, nitrogen oxides, and carbon monoxide emissions. Tests shall be conducted in accordance with the provisions of U. S. EPA Methods 1, 2, 3A, 4, 5, 6C, 7E, 10, 19, and 202 and 25 Pa. Code Chapter 139.

(c). At least ninety (90) days prior to the test, the company 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), two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

III. MONITORING REQUIREMENTS.**# 003 [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 monitor the following operating parameters for each boiler:

- (a). Hours of operation on a daily basis;
- (b). The amount of fuel used on a daily basis;
- (c). The type of fuel;
- (d). The heat of combustion of fuel in each shipment.

**SECTION E. Source Group Restrictions.****IV. RECORDKEEPING REQUIREMENTS.****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall maintain records of the following operating parameters for each boiler:

- (a). Hours of operation on a daily basis;
- (b). The amount of fuel used on a daily basis;
- (c). The type of fuel;
- (d). The heating value of the fuel in each shipment.

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

The permittee shall keep records of stack tests or calculations for this boiler that demonstrate compliance with the pounds per million BTU particulate matter and SO₂ emission limits in this permit.

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

The permittee shall calculate and record the total emissions of NO_x, SO_x, PM, and VOC from this source on a monthly and a 12-month rolling basis.

V. REPORTING REQUIREMENTS.**# 007 [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 submit semi-annual reports, at a minimum, of the following operating parameters for each boiler:

- (a). Hours of operation on a daily basis;
- (b). The amount of fuel used on a daily basis;
- (c). The type of fuel;
- (d). The heating value of the fuel in each shipment.

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

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

The permittee shall perform an annual adjustment or tune-up on each boiler. This adjustment shall include, but not limited to the following:

- (a). Inspection, adjustment, cleaning or replacement of fuel-burning equipment, including the burners and moving parts necessary for proper operation as specified by the manufacturer.
- (b). Inspection of the flame pattern or characteristics and adjustments necessary to minimize total emissions of NO_x and to the extent practicable minimize emissions of CO.
- (c). Inspection of the air-to-fuel ratio control system and adjustments necessary to ensure proper calibration and operation as specified by the manufacturer.

**SECTION E. Source Group Restrictions.****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: G02

Group Description: Tampella Boilers

Sources included in this group

ID	Name
031	BOILER 1 (TAMPELLA)
032	BOILER 2 (TAMPELLA)

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §122.3]****Adoption of standards.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511 and 40 C.F.R. §§ 60.42c(d), 60.42c(g), 60.42c(i), and 60.44c(h).]

(a). No owner or operator of an affected facility that combusts oil shall cause to be discharged into the atmosphere from that affected facility any gases that contain SO₂ in excess of 215 ng/J (0.50 lb/MMBtu) heat input; or, as an alternative, no owner or operator of an affected facility that combusts oil shall combust oil in the affected facility that contains greater than 0.0015 weight percent sulfur. The percent reduction requirements are not applicable to affected facilities under this paragraph.

(b). The sulfur content of No. 2 fuel oil combusted in this source shall not exceed 0.0015 percent (15 ppm), by weight.

(c). The SO₂ emission limits and fuel oil sulfur limits apply at all times, including periods of startup, shutdown, and malfunction.

(d). Except as provided in paragraph (e) below, compliance with the fuel oil sulfur limits and emission limits of Paragraph (a) of this section shall be determined on a 30-day rolling average basis.

(e). For distillate oil-fired affected facilities with heat input capacities between 2.9 and 29 MW (10 to 100 MMBtu/hr), compliance with the emission limits or fuel oil sulfur limits may be determined based on a certification from the fuel supplier, as described under 40 C.F.R. § 60.48c(f), as applicable.

[Compliance with paragraph (b) above also demonstrates compliance with the applicable requirements of 25 Pa. Code §§ 123.22(e)(1) and 123.22(e)(2) for the inner zone of the Southeast Pennsylvania Air Basin.]

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

The combined nitrogen oxide (NO_x) emissions from Source ID Nos. 031 and 032 shall not exceed 24.9 tons per 12-month rolling period.

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

The Carbon Monoxide emissions from each boiler (Source ID Nos. 031 and 032) shall not exceed 400 ppm corrected to 3% oxygen content.

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

The Nitrogen Oxides (NO_x) emission from each boiler (Source ID No. 031 & No. 032) shall not exceed 30 ppm corrected to 3% Oxygen content when firing Natural gas, and 90 ppm corrected to 3% oxygen content when firing No. 2 fuel oil.

**SECTION E. Source Group Restrictions.****Throughput Restriction(s).****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The No. 2 fuel oil usage for both Source ID No. 031 and Source ID No. 032 shall not exceed 830,000 gallons in any consecutive 12-month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.**# 006 [25 Pa. Code §122.3]****Adoption of standards.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511 and 40 C.F.R. §§ 60.44c(h), 60.46c(e), and 60.48c(f).]

The permittee shall monitor certifications from the fuel supplier to demonstrate the sulfur content of the No. 2 Fuel Oil.

IV. RECORDKEEPING REQUIREMENTS.**# 007 [25 Pa. Code §122.3]****Adoption of standards.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91 and 40 C.F.R. §§ 60.44c(h), 60.46c(e), and 60.48c(f).]

The permittee shall keep records of certifications from the fuel supplier to demonstrate the sulfur content of the No. 2 Fuel Oil. The records shall include the information listed in (a), (b), (c), and (d) below. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.

- (a). The name of the oil supplier;
- (b). The location of the oil when the sample was drawn for analysis to determine the sulfur content of the oil, specifically including whether the oil was sampled as delivered to the affected facility, or whether the sample was drawn from oil in storage at the oil supplier's or oil refiner's facility, or other location;
- (c). The sulfur content of the oil from which the shipment came (or of the shipment itself); and
- (d). The method used to determine the sulfur content of the oil.

008 [25 Pa. Code §123.22]**Combustion units**

The permittee shall receive with each fuel oil delivery an electronic or paper record which legibly and conspicuously contains the following information:

- (a) the date of the sale or transfer;
- (b) the name and address of the seller;
- (c) the name and address of the buyer;
- (d) the delivery address;
- (e) the volume of commercial fuel oil purchased; and
- (f) the identification of the sulfur content of the shipment of fuel oil, determined using the sampling and testing methods specified in the testing requirement above, expressed as one of the following statements:
 - (1) For a shipment of No. 2 and lighter commercial fuel oil, "The sulfur content of this shipment is 500 ppm or below."
 - (2) For a shipment of No. 4 commercial fuel oil, "The sulfur content of this shipment is 2,500 ppm or below."
 - (3) For a shipment of No. 5, No. 6 and heavier commercial fuel oil, "The sulfur content of this shipment is 5,000 ppm or below."

**SECTION E. Source Group Restrictions.****# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a). The permittee shall calculate and record the nitrogen oxide emissions from Source ID Nos. 031 and 032 on a monthly basis and a 12-month rolling basis.

(b). The records of the calculations made in paragraph (a) above shall be kept on file for a period of five (5) years, and these records shall be made available to the Department upon request.

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

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

The permittee shall record each adjustment conducted under the procedures mentioned in Condition #022 of this Section, for each boiler, in a permanently bound log book or other method approved by the Department. This log shall contain, at a minimum, the following information:

- (a). The date of tuning procedure;
- (b). The name of service company and technicians;
- (c). The final operating rate or load;
- (d). The final CO and NO_x emission rates;
- (e). The final excess oxygen rate.

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

The permittee shall keep records of the results of each stack test performed on this boiler to demonstrate compliance with the parts per million emission limits for NO_x and CO.

V. REPORTING REQUIREMENTS.**# 012 [25 Pa. Code §122.3]****Adoption of standards.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511 and 40 C.F.R. § 60.48c.]

The reporting period for the reports required under 40 C.F.R. § 60.48c is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.

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

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

Each boiler (Source ID Nos. 031 and 032) shall be equipped with low NO_x burners with flue gas recirculation (FGR).

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

This boiler has been de-rated to less than 30 MMBTU/hr heat input through plan approval PA-23-0034.

*** Permit Shield in Effect. ***

**SECTION E. Source Group Restrictions.**

Group Name: G03

Group Description: keeler boilers

Sources included in this group

ID	Name
033	BOILER 3 (KEELER)
034	BOILER 4 (KEELER)

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §123.22]****Combustion units**

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from this combustion unit, in excess of the rate of 1.0 pounds per million Btu of heat input.

II. TESTING REQUIREMENTS.

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

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

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

The permittee shall monitor the the percent sulfur content of the No. 2 Fuel Oil used by this boiler for each delivery of fuel.

IV. RECORDKEEPING REQUIREMENTS.**# 003 [25 Pa. Code §123.22]****Combustion units**

The permittee shall receive with each fuel oil delivery an electronic or paper record which legibly and conspicuously contains the following information:

- (a) the date of the sale or transfer;
- (b) the name and address of the seller;
- (c) the name and address of the buyer;
- (d) the delivery address;
- (e) the volume of commercial fuel oil purchased; and
- (f) the identification of the sulfur content of the shipment of fuel oil, determined using the sampling and testing methods specified in the testing requirement above, expressed as one of the following statements:
 - (1) For a shipment of No. 2 and lighter commercial fuel oil, "The sulfur content of this shipment is 15 ppm or below."

004 [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 keep records of the the percent sulfur content of the No. 2 Fuel Oil used by this boiler for each delivery of fuel.

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

**SECTION E. Source Group Restrictions.**

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

The permittee shall record each adjustment conducted under the procedures mentioned in Condition #015 of this Section, for each boiler, in a permanently bound log book or other method approved by the Department. This log shall contain, at a minimum, the following information:

- (a). The date of tuning procedure;
- (b). The name of service company and technicians;
- (c). The final operating rate or load;
- (d). The final CO and NO_x emission rates;
- (e). The final excess oxygen rate.

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: G04

Group Description: No. 6 Fuel Oil Conditions Group

Sources included in this group

ID	Name
031	BOILER 1 (TAMPELLA)
032	BOILER 2 (TAMPELLA)
033	BOILER 3 (KEELER)
034	BOILER 4 (KEELER)

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.**

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

(a). The permittee shall obtain, with each delivery, a certified receipt from the fuel supplier that documents, at a minimum, the following parameters:

- (1). Percent Sulfur Content (%S by weight).
- (2). Heating value of the fuel (Btu/gal).

(b). In the event that a receipt is not obtained from the fuel supplier, the permittee shall perform a fuel oil analysis for that delivery in accordance with 25 Pa. Code Chapter 139. The testing log shall also include the identification of the sampling method and sampling protocol.

(c). The analysis shall, at a minimum, measure the parameters listed in subpart (a), above.

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: G05

Group Description: Subpart JJJJJJ

Sources included in this group

ID	Name
031	BOILER 1 (TAMPELLA)
032	BOILER 2 (TAMPELLA)
033	BOILER 3 (KEELER)
034	BOILER 4 (KEELER)

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. Part 63 § 63.11223(b)(1-7) and 40 C.F.R. Part 63 § 63.11223(c)]

The five year tune-up shall consist of at least the following inspections and requirements for each boiler:

1. Inspect the burner, and clean or replace any components of the burner as necessary, each burner shall be inspected at least once every 72 months.
2. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment shall be consistent with the manufacturer's specifications.
3. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly.
4. Optimize total emissions of Carbon Monoxide. This optimization should be consistent with the manufacturer's specifications.
5. Measure the concentrations in the effluent stream of carbon monoxide in parts per million (ppm) by volume, and oxygen in volume percent, before and after the adjustments are made.
6. Maintain onsite and submit, if requested by the Administrator, a report containing the following:
 - a. The concentrations of CO in the effluent stream in ppm by volume, and oxygen in volume percent, measured before and after the tune-up of each boiler.

**SECTION E. Source Group Restrictions.**

- b. A description of any corrective actions taken as part of the tune-up.
- c. The type and amount of fuel used over the 12-months prior to the tune-up.
- 7. If the boiler is not operating on the required date for a tune-up, the tune-up shall be conducted within one week of startup.

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

[Additional authority for this permit condition is also derived from 40 C.F.R. Part 63 § 63.11225(g)]

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

1. The name of the owner or operator of the affected source, the location of the source, the boiler(s) that will switch fuels, and the date of the notice.
2. The current applicable subcategory under 40 C.F.R. Part 63 Subpart JJJJJJ.
3. The date on which the permittee becomes subject to the currently applicable standards.
4. The date upon which the permittee will commence the fuel switch.

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: G07

Group Description: Exempt EG Hours

Sources included in this group

ID	Name
101A	NATURAL GAS AND PROPANE EMERGENCY GENERATORS - EXEMPT
103A	NO.2 EMERGENCY ENGINES (EXEMPT) NSPS

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 any source in excess of 0.04 grains per dry standard cubic foot, pursuant to 25 Pa. Code § 123.13(c)(1)(i).

002 [25 Pa. Code §123.21]**General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from any source group in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 ppmvd.

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

The combined emissions of nitrogen oxides (NO_x) from all exempt emergency generators identified in sources 101A, 103 and 103A shall be limited to 100 pounds per hour, 1,000 pounds per day, 2.75 tons per ozone season, and 6.6 tons per year on a 12- month rolling basis.

II. TESTING REQUIREMENTS.

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

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

The permittee shall monitor the hours of operation for the emergency generators on a monthly basis and as a 12-month rolling sum, when operating.

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

The permittee shall monitor the NO_x emissions from the emergency generators daily, monthly, and as a 12-month rolling sum, when operating.

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

(a) The permittee shall maintain records of the hours of operation for the emergency generators on a monthly basis and as a 12-month rolling sum.

(b) For each emergency generator, the permittee must specify the category of operation, such as "emergency", "nonemergency" and "maintenance and testing" and the amount of time the unit was used for each category or operation.

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

The permittee shall calculate and maintain records of the NO_x emissions from the emergency generators on a monthly basis and as a 12-month rolling sum.

**SECTION E. Source Group Restrictions.****V. REPORTING REQUIREMENTS.****# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall include the total, combined annual NOx emission estimates from these emergency generators in the annual emission statement as pursuant 25 Pa. Code § 135.21.

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: GO6

Group Description: IIII Requirements

Sources included in this group

ID	Name
103A	NO.2 EMERGENCY ENGINES (EXEMPT) NSPS

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

001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4209]
Subpart IIII - 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?
 [Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

For Emergency Generator #1:

Emissions from this generator shall not exceed the following:

- (a) NMHC plus NO_x – 10.5 grams/kW-hr;
- (b) CO - 5.0 grams/kW-hr; and
- (c) PM - 0.8 grams/kW-hr.

For Emergency Generator #2:

Emissions from this generator shall not exceed the following:

- (a) NMHC plus NO_x – 4.0 grams/kW-hr;
- (b) CO – 3.5 grams/kW-hr; and
- (c) PM - 0.8 grams/kW-hr.

Fuel Restriction(s).

002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]
Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?

The permittee shall ensure that all diesel fuel meets the following per-gallon standards:

- (1) Sulfur content.
 - (i) 15 ppm maximum for NR diesel fuel.
- (2) Cetane index or aromatic content, as follows:
 - (i) A minimum cetane index of 40; or
 - (ii) A maximum aromatic content of 35 volume percent.

Operation Hours Restriction(s).

003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]
Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?

(a). These emergency generators shall be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine.

(b). Maintenance checks and readiness testing of such units is limited to 100 hours per year.

**SECTION E. Source Group Restrictions.**

(c). There is no time limit on the use of emergency situations. The permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year.

(d). The permittee may operate these emergency generators up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and readiness-testing and emergency demand response.

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.

**# 004 [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 ensure that the emergency water pumps are certified to meet the requirements of 40 CFR Parts 89 and 1089 as they apply.

**# 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?**

The permittee shall operate and maintain these emergency generators and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer.

VII. ADDITIONAL REQUIREMENTS.

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

Source #103A includes the following engines:

1. Kohler Model 180REOZJG, , S/N SGM32DH8L, 180KW (Kennedy)
2. MTU Model DS00350D6SRAH1574, S/N 339600-1-1-1111, Hp 350 KW, (Mendel)
3. Kohler Model 180REOZJG, (RFD 5020)



SECTION E. Source Group Restrictions.

***** 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 Descriptor		
031	BOILER 1 (TAMPELLA)		
Emission Limit			
400.000	PPMV	corrected to 3% O2	CO
24.900	Tons/Yr	Combined Source ID Nos. 031 & 032; for any 12-month rolling period	NOX
30.000	PPMV	corrected to 3% oxygen for natural gas	NOX
90.000	PPMV	corrected to 3% oxygen for No. 2 Fuel Oil	NOX
0.400	Lbs/MMBTU		PM10
0.500	Lbs/MMBTU		SOX
032	BOILER 2 (TAMPELLA)		
Emission Limit			
400.000	PPMV	corrected to 3% O2	CO
24.900	Tons/Yr	Combined Source ID Nos. 031 & 032; for any 12-month rolling period	NOX
30.000	PPMV	corrected to 3% oxygen for natural gas	NOX
90.000	PPMV	corrected to 3% oxygen for No. 2 Fuel Oil	NOX
0.400	Lbs/MMBTU		PM10
0.500	Lbs/MMBTU		SOX
033	BOILER 3 (KEELER)		
Emission Limit			
0.400	Lbs/MMBTU		PM10
1.000	Lbs/MMBTU		SOX
034	BOILER 4 (KEELER)		
Emission Limit			
0.400	Lbs/MMBTU		PM10
1.000	Lbs/MMBTU		SOX
103	18 NO. 2 FUEL OIL EMERGENCY GENERATORS (EXEMPT)		
Emission Limit			
2.750	Tons/OZNESEAS		NOX
6.600	Tons/Yr	on a 12-month rolling basis	NOX
100.000	Lbs/Hr		NOX
1,000.000	Lbs/Day		NOX

Site Emission Restriction Summary

Emission Limit			Pollutant
99.900 Tons/Yr	on a 12-month rolling basis		NOX



SECTION G. Emission Restriction Summary.

**SECTION H. Miscellaneous.**

#001. This permit has been revised as of 05/04/2001 to set limits for the use of fuel oil no. 6 in Source ID #031 and #032. This permit has also been amended to include changes in the inventory and in the monitoring and recordkeeping requirements for the space heaters and emergency generators (Source ID #035, #036, #101, and #102).

#002. The operating/compliance permit CP-23-0034 serves as the basis for certain terms and conditions in this Title V Operating Permit.

#003. APS No. 346972; Authorization No. 535850 - This authorization is for a Title V Operating Permit Renewal. The following changes have been from the previously issued Title V Permit:

- (a). The reference to the terms and conditions of operating permit CP-23-0034 has been moved from Section C to Section G as is current policy for Title V Permits.
- (b). Section C Condition #013 - Contact number for declaring a malfunction for any source at the facility was changed from the Conshohocken Office to the Norristown Office.
- (c). Section C Conditions #008, #009, #010, and #011 from previous Title V Permit for this facility were replaced with current requirement for tiered monitoring of visible emissions, fugitive particulate matter, and odors.
- (d). A condition was added to this Title V Permit to keep records for each time the facility is monitored for visible emissions, fugitive particulate matter, and odors.
- (e). Section C IX. The compliance schedule was removed from this permit.
- (f). Section C VIII. The compliance certification date was removed because the facility should have a schedule already set in place for compliance certification.
- (g). The heat input rating for Source ID No. 034 has been corrected from 40 MMBTU/hr to 50 MMBTU/hr.
- (h). Source ID Nos. 031 and 032 have separate stacks and a stack was added to Source ID No. 032 to reflect the actual operation at the facility.
- (i). Source ID Nos. 035 and 036 are separate groups of sources. Changes were made to the stacks to reflect the difference between these sources.
- (j). Source ID Nos. 101 and 102 are separate sources. Changes were made to the stacks to reflect the differences in the sources.
- (k). Source ID Nos. 036 and 102 operate on No. 2 Fuel Oil, not No. 6 Fuel Oil. No. 2 Fuel Oil was added to the permit for each of these sources.
- (l). Villanova University provided updated capacities for natural gas usage in Source ID Nos. 033 and 034. The capacities in the permit have been corrected.
- (m). The emergency generators included under Source ID Nos. 101 and 102 were added under the additional requirements for each source.
- (n). This renewal also incorporates a minor modification (APS No. 346972; Authorization No. 545932) for Source ID Nos. 031 and 032 in accordance with 25 Pa. Code § 127.462. The combined emissions of nitrogen oxides from these two boilers are limited to 24.9 tons per year on a 12-month rolling basis. The total amount of No. 6 Fuel Oil that can be consumed by these boilers together was raised from 337,935 gallons per year to 830,000 gallons per year. A requirement for calculating and recording nitrogen oxide emissions from Source ID Nos. 031 and 032 was also added to the permit.

#004. APS No. 346972; Authorization No. 793536: Authorization for the renewal of the Title V Permit for Villanova University. The following changes were made to the permit:

- (a). Section C Conditions #001, #002, #006, and #012 were updated to reflect the current language that is used in these permit conditions.
- (b). Section C Condition #011 is an added requirement for keeping records of de minimis increases or increases resulting from

**SECTION H. Miscellaneous.**

sources added through a Request for Determination or a plan approval.

(c). Section C Condition #013 is an added requirement specifying the date for submittal of the annual compliance certification and the semi-annual deviation report.

(d). The references to burning No. 6 Fuel Oil in Section D Source ID Nos. 031 and 032 were removed pending a determination from the U.S. EPA on whether the method of de-rating these boilers is acceptable.

(e). Some of the emergency generators in Source ID Nos. 101 and 102 that were originally listed in the RACT permit (CP-23-0034) were replaced by new emergency generators. The operation of the new emergency generators follows the allowable exemption from plan approval in 25 Pa. Code Section 127.14(a)(8) and Department Document No. 275-2101-003. Source ID No. 103 was created for the permitting of these new emergency generators, and the lists of emergency generators under Source ID Nos. 101, 102, and 103 were updated.

(f). During the operating permit inspection, two immersion parts washers were found at the facility. Source ID No. 104 was created for the permitting of these sources.

#005. APS No. 346972; Authorization No. 1029385: Renewal of the Title V Permit

Changes to Section A

1. Three emergency engines (approved under RFD #4729 and subject to 40CFR60, Subpart JJJJ) were added to this section – source 101A
2. Three emergency engines (approved under RFDs #5043) and subject to 40CFR60, Subpart IIII) were added to this section– source 103A

Changes to Section B

In response to a recent EPA Order, the following Title V Permit General Conditions were revised on December 15, 2014:

1. Minor Operating Permit Modifications (Condition No. 13)
2. Administrative Operating Permit Amendments (Condition No. 14)
3. Authorization for De Minimis Emission Increases (Condition No. 17)
4. Operational Flexibility (Condition No. 13) (Condition No. 25)
5. Permit Shield (Condition No. 28)

Changes to Section C

The following conditions were updated:

1. Condition #006 pertaining to open burning operations,
2. Condition #008 pertaining to monitoring the facility,
3. Condition #009 pertaining to recordkeeping,
4. Condition #013 pertaining to Compliance Certificates
5. Condition #015 pertaining to filing an annual source report (AIMS).

All of the above conditions were updated to reflect standard Department language.

Changes to Section D – also see New Regulatory Requirements (section 3)

1. The four steam boilers (sources #031,032.033 and 034) – 40CFR60, subpart JJJJJ requirements were added to these boilers.
2. Fuel restriction was added to the Miscellaneous Heaters/Boilers (Source ID 036).
3. An operating hour restriction was added to limit the hours of operation for non-emergency situations for the emergency generators.
4. Conditions for the three new emergency engines subject to 40CFR60, Subpart JJJJ were added .
5. Conditions were added for six emergency engines subject to 40CFR60, Subpart IIII.

The facility shall keep records demonstrating compliance with NOx emission limits for all exempt rental engines on site. The facility

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shall keep records for exempt rental emergency electric generators to demonstrate compliance with any applicable requirements of 40 C.F.R. Part 60, Subpart IIII , 40 C.F.R. Part 60, Subpart JJJJ and 40 C.F.R. Part 63, Subpart ZZZZ.

#006. APS No. 346972; Authorization No. 1141024: Minor Modification of the Title V Permit. Facility NOx limit incorporated into permit.

#007. APS No. 346972; Authorization No. 1161397: Minor Modification - fuel conversion from No. 6 to No.2 fuel oil for four steam boilers (sources 031, 032, 033 and 034).

#008. APS No. 346972; Authorization No. 1323684. Renewal of TVOP. Incorporate Plan Approval 23-0034, source 101C.



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