



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

STATE ONLY SYNTHETIC MINOR OPERATING PERMIT

Issue Date: May 18, 2022

Effective Date: May 18, 2022

Expiration Date: May 17, 2027

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 unless otherwise designated.

State Only Permit No: 41-00041

Synthetic Minor

Federal Tax Id - Plant Code: 22-2188958-1

Owner Information

Name: ARXADA LLC
Mailing Address: 3500 TRENTON AVE
WILLIAMSPORT, PA 17701-7924

Plant Information

Plant: ARXADA LLC/WILLIAMSPORT PLT
Location: 41 Lycoming County 41001 Williamsport City
SIC Code: 2899 Manufacturing - Chemical Preparations, Nec

Responsible Official

Name: SCOTT HARVEY
Title: SITE DIRECTOR
Phone: (570) 321 - 3979 Email: scott.harvey@arxada.com

Permit Contact Person

Name: ANDREA KUNTZ
Title: EHS MANAGER
Phone: (570) 321 - 3900 Email: andrea.kuntz@arxada.com

[Signature] _____

MUHAMMAD Q. ZAMAN, ENVIRONMENTAL PROGRAM MANAGER, NORTHCENTRAL REGION

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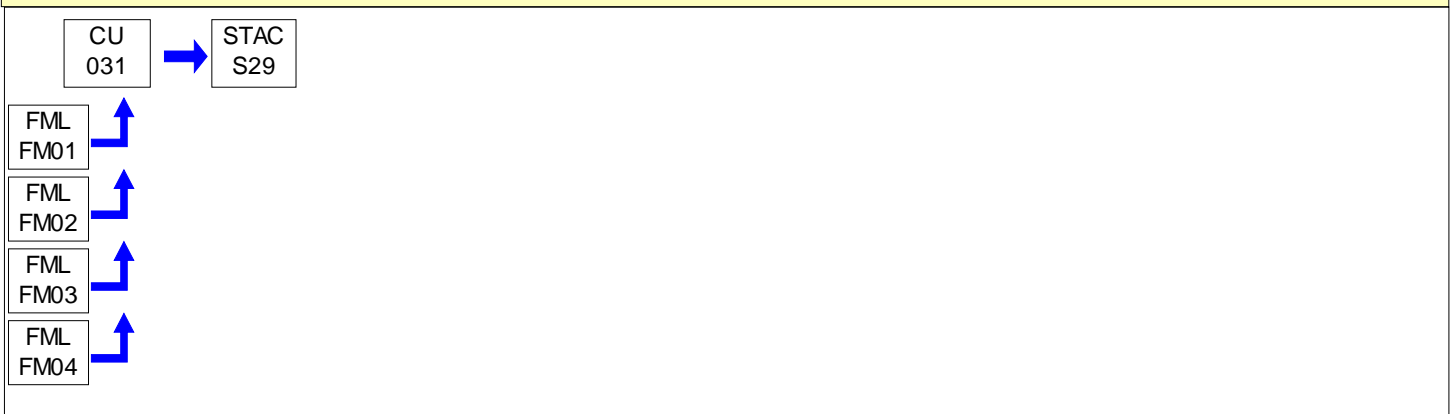
Source ID	Source Name	Capacity/Throughput	Fuel/Material
031	BOILER 1	33.000 MMBTU/HR	
032	BOILER 2	33.000 MMBTU/HR	
038	DOWTHERM BOILERS		
P102	ACRAWAX BEADING TOWER		
P103	ACRAWAX GRINDING & CONVEY		
P104	ACRAWAX BAGGING AND DRUMMING		
P105	ACRAWAX STORAGE BINS		
P107	HALO FLUID BED DRYERS #1 & #2 & DMH FLUID BED DRYER		
P109	FOUR HALO HYDANTOIN CHLORINATORS		
P118	HALO HYDANTOIN PROCESS		
P119	HALO HYDANTOIN CONVEY/PACKAGING/POWDER		
P120	HALO HYDANTOIN PROCESS EQUIPMENT		
P130	RESINS/GLYDANT PRODUCTION		
P140	BLDG 30 CHEMICAL PROCESS AREA		
P145	EMERGENCY GENERATORS		
P146	DIESEL FIRE PUMP		
P150	WASTEWATER TREATMENT PLANT		
P151	DANTOIN WASTEBOX, LAGOONS, TANK		
P152	STORAGE TANKS		
P153	PARTS WASHER		
C01	ACRAWAX BEADING BAGHOUSE (DC-290)		
C02	ACRAWAX BAGHOUSE (DC-401)		
C04	CYCLONE (S-320)		
C05	CYCLONE (S-220)		
C06	FLUID BED DRYER BAGHOUSE (F-321)		
C07	HALO HYDANTOIN VENTURI JET SCRUBBERS		
C08	HALO HYDANTOIN PACKED BED SCRUBBER 2		
C09	ACRAWAX BAGHOUSE (DC-402)		
C10	ACRAWAX BAGHOUSE (DC-300B)		
C11	ACRAWAX BAGHOUSE (DC-407)		
C12	ACRAWAX CARTRIDGE COLLECTOR (DC-400)		
C13	ACRAWAX CARTRIDGE COLLECTOR (DC-3200)		
C14	ACRAWAX PACKAGING BAGHOUSE (DC-330)		
C16	FLUID BED DRYER BAGHOUSE (F-220)		
C22	ACRAWAX REACTOR CONDENSER (C-68)		
C30	GLYDANT SCRUBBER 3 (78")		
C31	RESIN/GLYDANT SCRUBBER 1 (36")		
C32	RESIN/GLYDANT SCRUBBER 2 (42")		
C33	HALO HYDANTOIN BAGHOUSE (F-100)		
C34	HALO HYDANTOIN BAGHOUSE (F-200)		

**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
C35	HALOHDANTOIN PACKED TOWER SCRUBBER 3		
C36	HALOHDANTOIN BAGHOUSE (F-400)		
C37	BUILDING 30 SCRUBBER		
C38	HALOHDANTOIN BAGHOUSE (F-850)		
C39	HALOHDANTOIN BAGHOUSE (F-800)		
C40	ACRAWAX STORAGE BIN CARTRIDGE COLLECTOR (DC-410)		
C41	ACRAWAX STORAGE BIN CARTRIDGE COLLECTOR (DC-411)		
C42	ACRAWAX REWORK STATION CARTRIDGE COLLECTOR (DC-409)		
C43	LIQUID/SOLIDS GLYDANT BAGHOUSE (S-400)		
C44	HALOHDANTOIN BAGHOUSE (F-421)		
C45	HALOHDANTOIN BAGHOUSE (F-300)		
C46	HALOHDANTOIN BAGHOUSE (F-700)		
C47	LIQUID/SOLIDS GLYDANT BAGHOUSE (S-200)		
C50	LIQUID/SOLIDS GLYDANT BAGHOUSE (S-600)		
C51	FLUIDIZED BED COOLER CARTRIDGE COLLECTOR (DC-280)		
C52	ACRAWAX CONVEYING SYSTEM CARTRIDGE COLLECTOR (DC-3079)		
C53	ACRAWAX CONVEYING SYSTEM CARTRIDGE COLLECTOR (DC-3079)		
FM01	NATURAL GAS LINE		
FM02	BY PRODUCT STORAGE		
FM03	#6 OIL TANK		
FM04	#2 OIL TANK		
S02	ACRAWAX BEADING TOWER STACK (C01)		
S03	ACRAWAX BAGHOUSE STACK (C02)		
S038	STACKS FOR DOWTHERM BOILERS		
S06	FLUID BED DRYER BAGHOUSE STACK (C06)		
S07	ACRAWAX BAGHOUSE STACK (C09)		
S08	ACRAWAX REACTOR STACK (C22)		
S09	ACRAWAX BAGHOUSE STACK (C10)		
S109	PACKED BED SCRUBBER 2 STACK (C08)		
S11	ACRAWAX BAGHOUSE STACK (C11)		
S13	ACRAWAX CARTRIDGE COLLECTOR STACK (C13)		
S140	BUILDING 30 STACK (C37)		
S145	EMERGENCY GENERATOR STACKS		
S146	DIESEL FIRE PUMP STACK		
S15	ACRAWAX GRIND/CONVEY STACK (C12)		
S16	FLUID BED DRYER BAGHOUSE STACK (C16)		
S25	BOILER 2 STACK		
S29	BOILER 1 STACK		

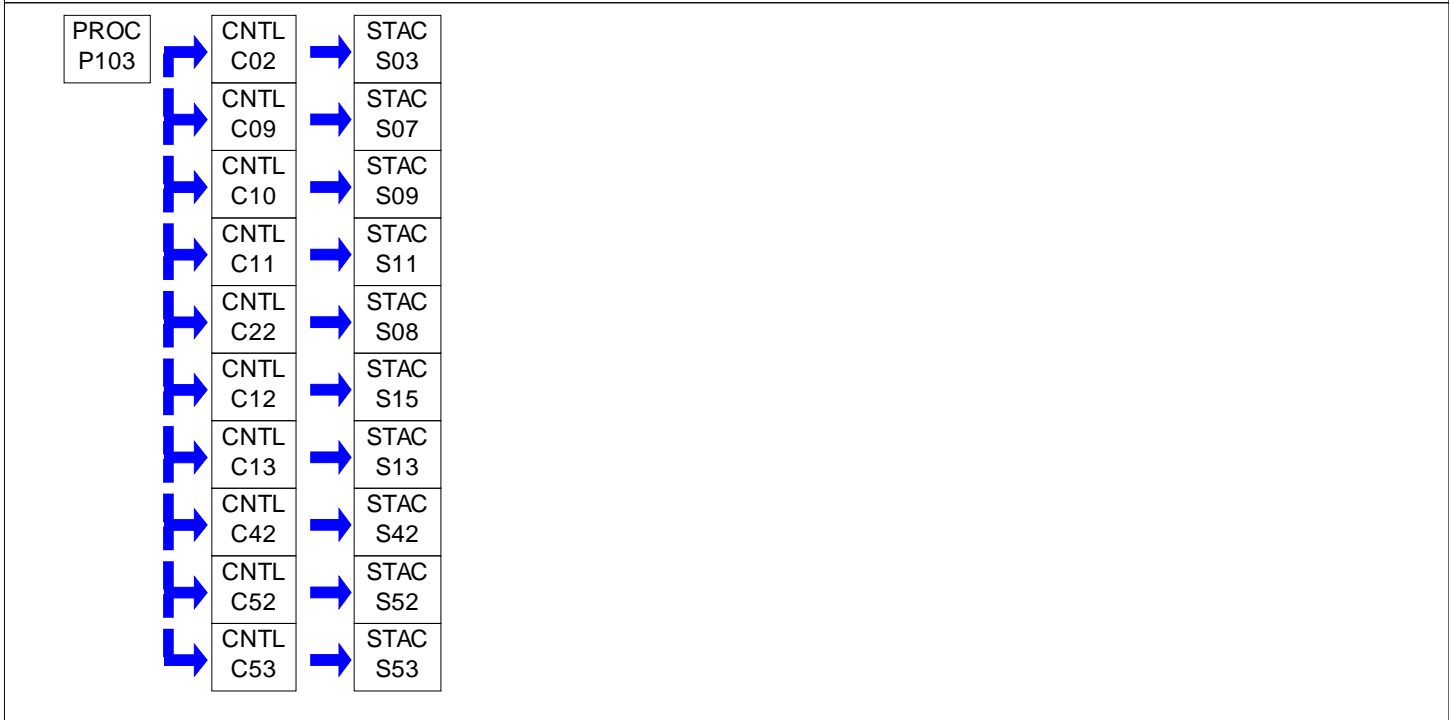
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
S30	GLYDANT SCRUBBER 3 STACK (C30)		
S31	RESIN/GLYDANT SCRUBBER 1 STACK (C31)		
S32	RESIN/GLYDANT SCRUBBER 2 STACK (C32)		
S33	HALO BAGHOUSE STACK (C33)		
S34	HALO BAGHOUSE STACK (C34)		
S35	PACKED TOWER SCRUBBER STACK (C35)		
S36	HALO BAGHOUSE STACK (C36)		
S38	HALO BAGHOUSE F-850 STACK (C38)		
S39	HALO BAGHOUSE F-800 STACK (C39)		
S40	ACRAWAX STORAGE BIN CARTRIDGE COLLECTOR STACK (C40)		
S41	ACRAWAX STORAGE BIN CARTRIDGE COLLECTOR STACK (C41)		
S42	ACRAWAX REWORK STATION CARTRIDGE COLLECTOR STACK (C42)		
S43	LIQUID/SOLIDS GLYDANT BAGHOUSE STACK (C43)		
S44	HALOHDANTOIN BAGHOUSE STACK (C44)		
S45	HALOHDANTOIN BAGHOUSE STACK (C45)		
S46	HALOHDANTOIN BAGHOUSE STACK (C46)		
S47	LIQUID/SOLIDS GLYDANT BAGHOUSE STACK (C47)		
S50	LIQUID/SOLIDS GLYDANT HOUSEKEEPING BAGHOUSE STACK (C50)		
S51	FLUIDIZED BED COOLER CARTRIDGE COLLECTOR (DC-280) STACK		
S52	ACRAWAX CONVEYING SYSTEM CARTRIDGE COLLECTOR (DC-3079) STACK		
S53	ACRAWAX CONVEYING SYSTEM CARTRIDGE COLLECTOR (DC-3079) STACK		
Z01	FUGITIVE EMISSIONS		

PERMIT MAPS

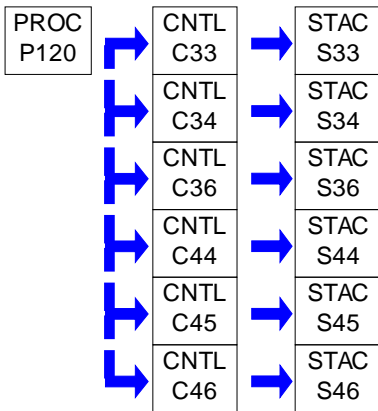
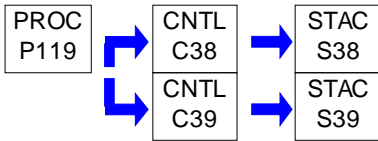
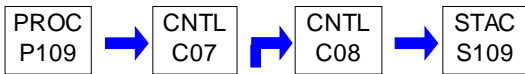
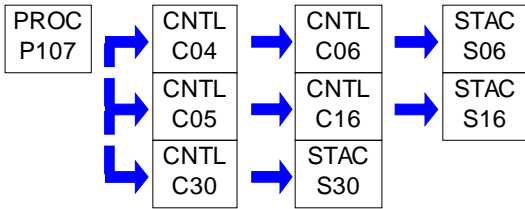
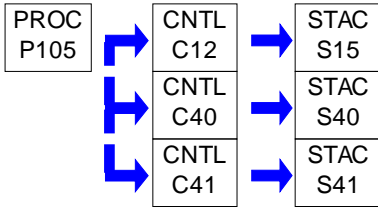


PERMIT MAPS



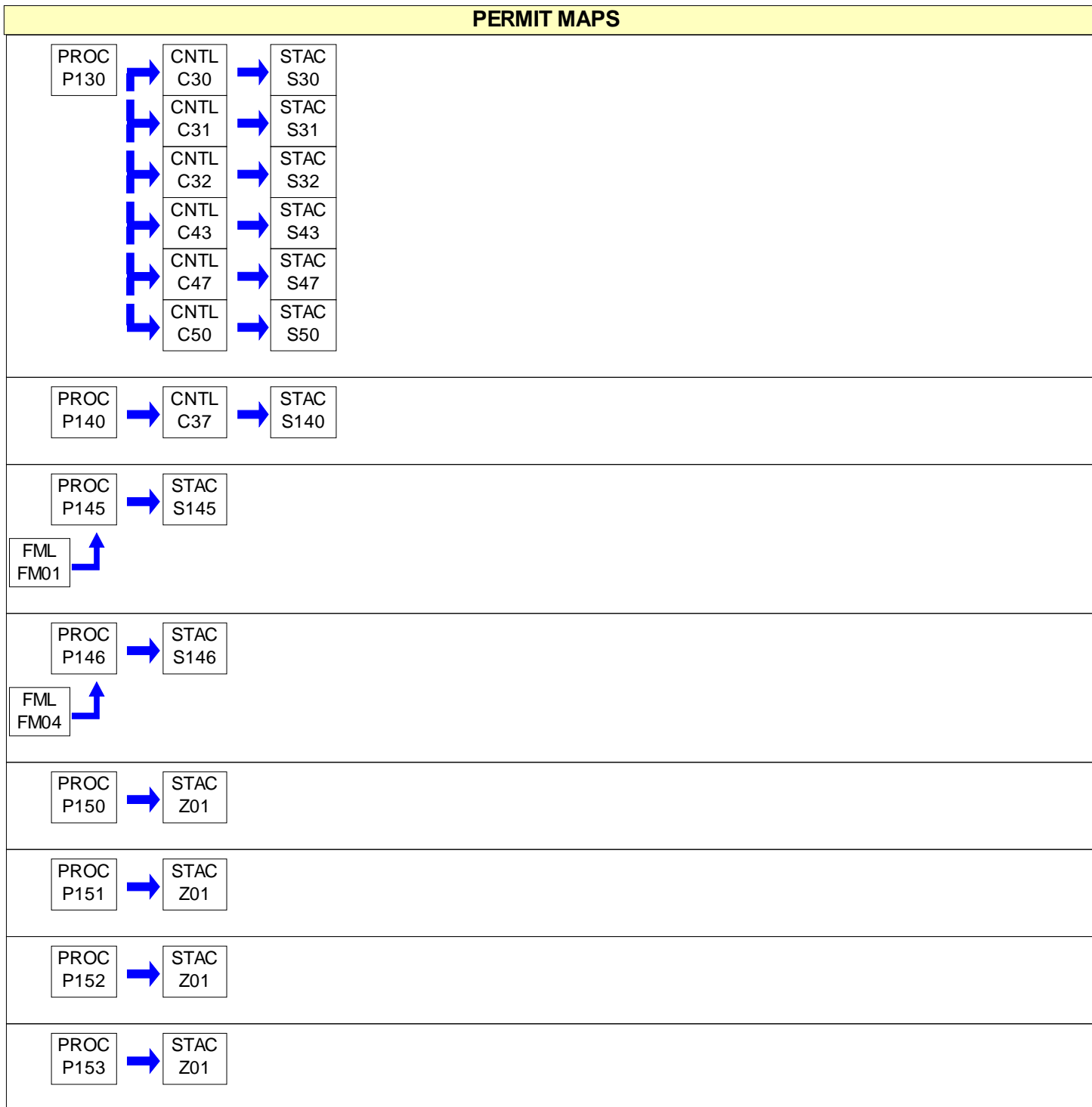


PERMIT MAPS





PERMIT MAPS



**SECTION B. General State Only 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 in 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 127.446]**Operating Permit Duration.**

(a) 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.

(b) The terms and conditions of the expired permit shall automatically continue pending issuance of a new operating 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.

#003 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446 & 127.703(b)]**Permit Renewal.**

(a) The permittee shall submit a timely and complete application for renewal of the operating permit to the appropriate Regional Air Program Manager. The application for renewal of the operating permit shall be submitted at least six (6) months and not more than 18 months before the expiration date of this permit.

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

(c) The permittee shall submit with the renewal application a fee for the processing of the application as specified in 25 Pa. Code § 127.703(b). 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.

(d) 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.

(e) The application for renewal of the operating permit shall also include submission of supplemental compliance review forms in accordance with the requirements of 25 Pa. Code § 127.412(b) and § 127.412(j).

(f) 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 as necessary to address any requirements that become applicable to the source after the permittee submits a complete application, but prior to the date the Department takes action on the permit application.

#004 [25 Pa. Code § 127.703]**Operating Permit Fees under Subchapter I.**

(a) The permittee shall pay the annual operating permit maintenance fee according to the following fee schedule in either paragraph (1) or (2) in accordance with 25 Pa. Code § 127.703(d) on or before December 31 of each year for the next calendar year.

(1) For a synthetic minor facility, a fee equal to:

(i) Four thousand dollars (\$4,000) for calendar years 2021—2025.

(ii) Five thousand dollars (\$5,000) for calendar years 2026—2030.

(iii) Six thousand three hundred dollars (\$6,300) for the calendar years beginning with 2031.

**SECTION B. General State Only Requirements**

(2) For a facility that is not a synthetic minor, a fee equal to:

- (i) Two thousand dollars (\$2,000) for calendar years 2021—2025.
- (ii) Two thousand five hundred dollars (\$2,500) for calendar years 2026—2030.
- (iii) Three thousand one hundred dollars (\$3,100) for the calendar years beginning with 2031.

(b) 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.

#005 [25 Pa. Code §§ 127.450 (a)(4) and 127.464]**Transfer of Operating Permits.**

(a) This operating permit may not be transferred to another person, except in cases of transfer-of-ownership that are documented and approved by the Department.

(b) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership of the source shall be treated as an administrative amendment if the Department determines that no other change in the permit is required and 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 a compliance review form has been submitted to, and the permit transfer has been approved by, the Department.

(c) This operating permit is valid only for those specific sources and the specific source locations described in this permit.

#006 [25 Pa. Code § 127.441 and 35 P.S. § 4008]**Inspection and Entry.**

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

(1) Enter at reasonable times upon the permittee's premises where a 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, at reasonable times, any records that are kept under the conditions of this permit;

(3) Inspect at reasonable times, any 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, any 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 or regulations adopted thereunder including denying the Department access to a source at this facility. Refusal of entry or access may constitute grounds for permit revocation and assessment of criminal and/or civil penalties.

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

#007 [25 Pa. Code §§ 127.441 & 127.444]**Compliance Requirements.**

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

**SECTION B. General State Only Requirements**

- (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 for the source is 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 State-Only permit. Nothing in this sub-condition shall be construed to create an independent affirmative duty upon the permittee to obtain a predetermination from the Department for physical configuration or engineering design detail changes made by the permittee.

#008 [25 Pa. Code § 127.441]**Need to Halt or Reduce Activity Not a Defense.**

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

#009 [25 Pa. Code §§ 127.442(a) & 127.461]**Duty to Provide Information.**

(a) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of each source at the facility.

(b) The permittee shall furnish to the Department, in writing, information that the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to maintain in accordance with this permit.

#010 [25 Pa. Code § 127.461]**Revising an Operating Permit for Cause.**

This operating permit may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

- (1) The permittee constructs or operates the source subject to the operating permit so that it is in violation of the Air Pollution Control Act, the Clean Air Act, the regulations thereunder, a plan approval, a permit or in a manner that causes air pollution.
- (2) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.
- (3) The permittee has failed to submit a report required by the operating permit or an applicable regulation.
- (4) The EPA determines that the permit is not in compliance with the Clean Air Act or the regulations thereunder.

#011 [25 Pa. Code §§ 127.450, 127.462, 127.465 & 127.703]**Operating Permit Modifications**

(a) The permittee is authorized to make administrative amendments, minor operating permit modifications and significant operating permit modifications, under this permit, as outlined below:

**SECTION B. General State Only Requirements**

(b) Administrative Amendments. The permittee shall submit the application for administrative operating permit amendments (as defined in 25 Pa. Code § 127.450(a)), according to procedures specified in § 127.450 unless precluded by the Clean Air Act or its regulations.

(c) Minor Operating Permit Modifications. The permittee shall submit the application for minor operating permit modifications (as defined 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.

(d) Significant Operating Permit Modifications. The permittee shall submit the application for significant operating permit modifications in accordance with 25 Pa. Code § 127.465.

(e) 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.

#012 [25 Pa. Code § 127.441]**Severability Clause.**

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

#013 [25 Pa. Code § 127.449]**De Minimis Emission Increases.**

(a) This permit authorizes de minimis emission increases in accordance with 25 Pa. Code § 127.449 so long as the permittee provides the Department with seven (7) days prior written notice before commencing any de minimis emissions increase. 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.

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

(c) Except as provided below in (d), the permittee is authorized 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, the regulations thereunder 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, the regulations thereunder or 25 Pa. Code Article III.

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

(d) In accordance with § 127.14, the permittee is authorized to install the following minor sources without the need for a plan approval or permit modification:

**SECTION B. General State Only Requirements**

- (1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.
 - (2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.
 - (3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility 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.
- (e) 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 (c)(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 this permit, the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.
- (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, installation of minor sources made pursuant to this permit condition and Plan Approval Exemptions under 25 Pa. Code § 127.14 (relating to exemptions), the permittee is prohibited from making 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.

#014 [25 Pa. Code § 127.3]**Operational Flexibility.**

The permittee is authorized to make changes within the facility in accordance with the regulatory provisions outlined in 25 Pa. Code § 127.3 (relating to operational flexibility) to implement the operational flexibility requirements provisions authorized under Section 6.1(i) of the Air Pollution Control Act and the operational flexibility terms and conditions of this permit. The provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements include the following:

- (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)

**SECTION B. General State Only Requirements**

(6) Section 127.462 (relating to minor operating permit modifications)

(7) Subchapter H (relating to general plan approvals and general operating permits)

#015 [25 Pa. Code § 127.11]**Reactivation**

(a) The permittee may not reactivate a source that has been out of operation or production for at least one year unless the reactivation is conducted in accordance with a plan approval granted by the Department or in accordance with reactivation and maintenance plans developed and approved by the Department in accordance with 25 Pa. Code § 127.11a(a).

(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).

#016 [25 Pa. Code § 127.36]**Health Risk-based Emission Standards and Operating Practice Requirements.**

(a) When needed to protect public health, welfare and the environment from emissions of hazardous air pollutants from new and existing sources, the permittee shall comply with the health risk-based emission standards or operating practice requirements imposed by the Department, except as precluded by §§ 6.6(d)(2) and (3) of the Air Pollution Control Act [35 P.S. § 4006.6(d)(2) and (3)].

(b) A person challenging a performance or emission standard established by the Department has the burden to demonstrate that performance or emission standard does not meet the requirements of Section 112 of the Clean Air Act.

#017 [25 Pa. Code § 121.9]**Circumvention.**

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 25 Pa. Code Article III, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#018 [25 Pa. Code §§ 127.402(d) & 127.442]**Reporting Requirements.**

(a) The permittee shall comply with the applicable reporting requirements of the Clean Air Act, the regulations thereunder, the Air Pollution Control Act and 25 Pa. Code Article III including Chapters 127, 135 and 139.

(b) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of any air contamination source.

(c) 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 in the permit transmittal letter, or otherwise notified)

(d) Any records or information including applications, forms, or reports submitted pursuant to this permit condition shall contain a certification by a responsible official as to truth, accuracy and completeness. The certifications submitted under this permit shall require a responsible official of the facility to certify that based on information and belief formed after reasonable inquiry, the statements and information in the documents are true, accurate and complete.

(e) Any records, reports or information submitted to the Department shall be available to the public except for such

**SECTION B. General State Only Requirements**

records, reports or information which meet the confidentiality requirements of § 4013.2 of the Air Pollution Control Act and §§ 112(d) and 114(c) of the Clean Air Act. The permittee may not request a claim of confidentiality for any emissions data generated for the facility.

#019 [25 Pa. Code §§ 127.441(c) & 135.5]**Sampling, Testing and Monitoring Procedures.**

(a) The permittee shall comply with the monitoring, recordkeeping or reporting requirements of 25 Pa. Code Chapter 139 and the other applicable requirements of 25 Pa. Code Article III and additional requirements related to monitoring, reporting and recordkeeping required by the Clean Air Act and the regulations thereunder including the Compliance Assurance Monitoring requirements of 40 CFR Part 64, where applicable.

(b) Unless alternative methodology is required by the Clean Air Act and regulations adopted thereunder, sampling, testing and monitoring required by or used by the permittee to demonstrate compliance with any applicable regulation or permit condition shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139.

#020 [25 Pa. Code §§ 127.441(c) and 135.5]**Recordkeeping.**

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

- (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 any 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.

#021 [25 Pa. Code § 127.441(a)]**Property Rights.**

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

#022 [25 Pa. Code § 127.447]**Alternative Operating Scenarios.**

The permittee is authorized to make changes at the facility to implement alternative operating scenarios identified in this permit in accordance with 25 Pa. Code § 127.447.

**SECTION B. General State Only Requirements****#023 [25 Pa. Code §135.3]****Reporting**

(a) If the facility is a Synthetic Minor Facility, 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 of a Synthetic Minor Facility 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.

#024 [25 Pa. Code §135.4]**Report Format**

If applicable, the 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**

The permittee shall not permit the emission into the outdoor atmosphere of fugitive air contaminants from a source other than the following:

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

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

The permittee shall not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in Condition #001(1)-(8) above, if the emissions are visible at the point the emissions pass outside the person's property.

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

The permittee shall not permit the emission of visible air contaminants into the outdoor atmosphere in such a manner that the opacity of the emission is either of the following:

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

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

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

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

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

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

- (a) The total emission of carbon monoxide from all sources at the facility shall not equal or exceed 100 tons in any 12

**SECTION C. Site Level Requirements**

consecutive month period.

(b) The total emission of nitrogen oxides from all sources at the facility shall not equal or exceed 100 tons in any 12 consecutive month period.

(c) The total emission of sulfur oxides from all sources at the facility shall not equal or exceed 100 tons in any 12 consecutive month period.

(d) The total emission of particulate matter less than 10 microns from all sources at the facility shall not equal or exceed 100 tons in any 12 consecutive month period.

(e) The total emission of any hazardous air pollutant from all sources at the facility shall not equal or exceed 10 tons in any 12 consecutive month period.

(f) The total emission of all hazardous air pollutants from all sources at the facility shall not equal or exceed 25 tons in any 12 consecutive month period.

(g) The total emission of all volatile organic compounds from all sources at the facility shall not equal or exceed 50 tons in any 12 consecutive month period.

006 [25 Pa. Code §129.63a]**Control of VOC emissions from industrial cleaning solvents.**

[Additional authority for this permit condition is derived from the 25 Pa. Code Section 129.63a(c)(3)]

(3) The VOC emissions from industrial cleaning solvent used or applied in a cleaning activity at a cleaning unit operation, a work production-related work area or a part, product, tool, machinery, equipment, vessel, floor or wall shall not equal or exceed 2.7 tons (2,455 kilograms) per 12-month rolling period, before consideration of controls. An owner or operator claiming this exemption shall maintain records in accordance with 25 Pa. Code Section 129.63a subsection (h)(4).

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

(a) Pursuant to 25 Pa. Code § 139.3, at least 90 calendar days prior to commencing a EPA reference method testing program, a test protocol shall be submitted to the Department for review and approval. One electronic copy shall be sent to the Northcentral Regional Office Air Quality Program Manager (RA-EPNCstacktesting@pa.gov) and one electronic copy shall be sent to the PSIMS Administrator in Central Office (RA-EPstacktesting@pa.gov). The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(b) Pursuant to 25 Pa. Code § 139.3, at least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the Northcentral Regional Office. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

(c) If applicable, pursuant to 40 CFR § 60.8(a), 40 CFR § 61.13(f) and 40 CFR § 63.7(g), complete test reports shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an EPA reference method test program.

(d) Pursuant to 25 Pa. Code § 139.53(b) a complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or noncompliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:

1. A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.

**SECTION C. Site Level Requirements**

2. Permit number(s) and condition(s) which are the basis for the evaluation.
3. Summary of results with respect to each applicable permit condition.
4. Statement of compliance or non-compliance with each applicable permit condition.

(e) Pursuant to 25 Pa. Code § 139.3, all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(f) All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.

(g) Pursuant to 25 Pa. Code §§ 139.53(a)(1) and 139.53(a)(3), one electronic copy of all submittals, besides notifications, shall be sent to the Northcentral Regional Office Air Quality Program Manager. In addition, one electronic copy shall be sent to the PSIMS Administrator in Central Office.

(h) The permittee shall insure all federal reporting requirements contained in the applicable subpart of 40 CFR are followed, including timelines more stringent than those contained herein. In the event of an inconsistency or any conflicting requirements between state and the federal, the most stringent provision, term, condition, method or rule shall be used by default.

008 [25 Pa. Code §139.1]**Sampling facilities.**

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

009 [25 Pa. Code §139.11]**General requirements.**

(1) As specified in 25 Pa. Code Section 139.11(1), performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.

(2) As specified in 25 Pa. Code Section 139.11(2), the Department will consider test results for approval where sufficient information is provided to verify the source conditions existing at the time of the test and where adequate data is available to show the manner in which the test was conducted. Information submitted to the Department shall include, as a minimum, all of the following:

- (a) A thorough source description, including a description of any air cleaning devices and the flue.
- (b) Process conditions, for example, the charging rate of raw material or rate of production of final product, boiler pressure, oven temperature and other conditions which may effect emissions from the process.
- (c) The location of sampling ports.
- (d) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage of CO, CO₂, O₂ and N₂), static and barometric pressures.
- (e) Sample collection techniques employed, including procedures used, equipment descriptions and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met.
- (f) Laboratory procedures and results.
- (g) Calculated results.

III. MONITORING REQUIREMENTS.**# 010 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

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

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

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

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

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

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

(a) The permittee shall maintain a logbook of the facility's weekly inspections performed. The logbook shall include the name of the company representative performing the inspection, the date and time of inspections, any instances of exceedances of visible emissions limitations, visible fugitive emissions limitations and malodorous air emissions limitations, and the name of the manager informed if a potential exceedance is observed. The permittee shall also record any and all corrective action(s) taken to abate each recorded deviation to prevent future occurrences.

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

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

(a) The permittee shall keep accurate and comprehensive records of the supporting calculations on a monthly basis to verify compliance with the carbon monoxide, nitrogen oxides, sulfur oxides, particulate matter less than 10 microns, individual HAPs, total HAPs, and volatile organic compounds emission limitations, specified in Section C of this operating permit, for all sources at the facility in any 12 consecutive month period.

(b) The permittee shall keep accurate and comprehensive records of the greenhouse gases emissions (expressed as carbon dioxide equivalent, CO₂e) on a calendar year basis.

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

014 [25 Pa. Code §129.63a]**Control of VOC emissions from industrial cleaning solvents.**

[Compliance with this permit condition ensures compliance with 25 Pa. Code Section 129.63a(c)(3) and (g)(2)(iii)]

[Additional authority for this permit condition is derived from the 25 Pa. Code Section 129.63a(h)(4), (h)(5), and (h)(6)]

(h)(4) The permittee shall keep comprehensive and accurate records, on a monthly basis, of the industrial cleaning solvents used or applied at the subject cleaning unit operations sufficient to demonstrate that the total combined actual VOC emissions from all subject cleaning unit operations at the facility are less than 2.7 tons (2,455 kilograms) per 12-month rolling period, before consideration of controls.

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

(h)(6) Records shall be submitted to the Department in an acceptable format upon receipt of a written request from the Department.

**SECTION C. Site Level Requirements****# 015 [25 Pa. Code §135.5]****Recordkeeping**

(a) The permittee shall maintain such records including computerized records as may be necessary to comply with 25 Pa. Code Section 135.3. These may include records of production, fuel usage, equipment maintenance records, or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions.

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

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

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

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

(a) The permittee shall submit reports showing the supporting calculations, and the supporting documentation used to calculate the air contaminant emissions, used to verify compliance with the total facility-wide air contaminant emission limitations, specified in Section C of this operating permit, to the Department on a semi-annual basis.

(b) The semi-annual reports shall be submitted to the Department by no later than: September 1, and March 1 for the previous 12 consecutive month period.

018 [25 Pa. Code §127.442]**Reporting requirements.**

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

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

(c) The report shall describe the following:

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

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

(e) During an emergency an owner or operator may continue to operate the source at their discretion provided they submit justification for continued operation of a source during the emergency and follow all the notification and reporting

**SECTION C. Site Level Requirements**

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.

019 [25 Pa. Code §135.3]**Reporting**

(a) A person who owns or operates a source to which 25 Pa. Code Chapter 135 applies, and who has previously been advised by the Department to submit an annual Air Information Management Systems (AIMS) report, shall submit by March 1 of each year an annual AIMS report for the preceding calendar year. The report shall include information for all previously reported sources, new sources which were first operated during the preceding calendar year and sources modified during the same period which were not previously reported.

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

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

VI. WORK PRACTICE REQUIREMENTS.**# 020 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

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

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

(2) Application of asphalt, oil, or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts,

(3) Paving and maintenance of roadways,

(4) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

021 [25 Pa. Code §129.63a]**Control of VOC emissions from industrial cleaning solvents.**

[Additional authority for this permit condition is derived from the 25 Pa. Code Section 129.63a(g)(3)]

(3) The owner or operator of a cleaning unit operation subject to §129.63a shall determine the VOC content of the industrial cleaning solvent as applied by conducting sampling and testing of the industrial cleaning solvent in accordance with the procedures and test methods specified in 25 Pa. Code Section 129.63a subsections (i) and (j) and 25 Pa. Code Chapter 139.

022 [25 Pa. Code §129.63a]**Control of VOC emissions from industrial cleaning solvents.**

[Additional authority for this permit condition is derived from the 25 Pa. Code Section 129.63a(i)(3) and (j)(3)]

(i)(3) Composite vapor pressure. The composite vapor pressure of organic compounds in cleaning unit operation industrial cleaning solvents shall be determined with documentation provided by the manufacturer of the industrial

**SECTION C. Site Level Requirements**

cleaning solvent that indicates the composite vapor pressure. The documentation may include an MSDS, CPDS or other data certified by the manufacturer.

(j)(3) Vapor pressure of single component compound. The vapor pressure of each single component compound in a cleaning unit operation industrial cleaning solvent shall be determined with documentation provided by the manufacturer of the single component compound that indicates the vapor pressure of the single component compound. The documentation may include an MSDS, CPDS or other data certified by the manufacturer.

VII. ADDITIONAL REQUIREMENTS.**# 023 [25 Pa. Code §121.7]****Prohibition of air pollution.**

The permittee shall not permit air pollution as that term is defined in the Pennsylvania Air Pollution Control Act (35 P.S. Sections 4001 - 4015).

024 [25 Pa. Code §123.31]**Limitations**

The permittee shall not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in a manner such that the malodors are detectable outside the property of the person on whose land the source is being operated.

025 [25 Pa. Code §129.14]**Open burning operations**

The permittee shall not permit the open burning of material at this facility unless in accordance with 25 Pa. Code Section 129.14.

026 [25 Pa. Code §129.63a]**Control of VOC emissions from industrial cleaning solvents.**

[Additional authority for this permit condition is derived from the 25 Pa. Code Section 123.63a(a)]

(a) 25 Pa. Code §129.63a applies to the owner and the operator of a facility at which an industrial cleaning solvent is used or applied in a cleaning activity at a cleaning unit operation, a work production-related work area or a part, product, tool, machinery, equipment, vessel, floor or wall.

The permittee shall comply with all applicable requirements specified in 25 Pa. Code Section 129.63a.

VIII. COMPLIANCE CERTIFICATION.

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

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

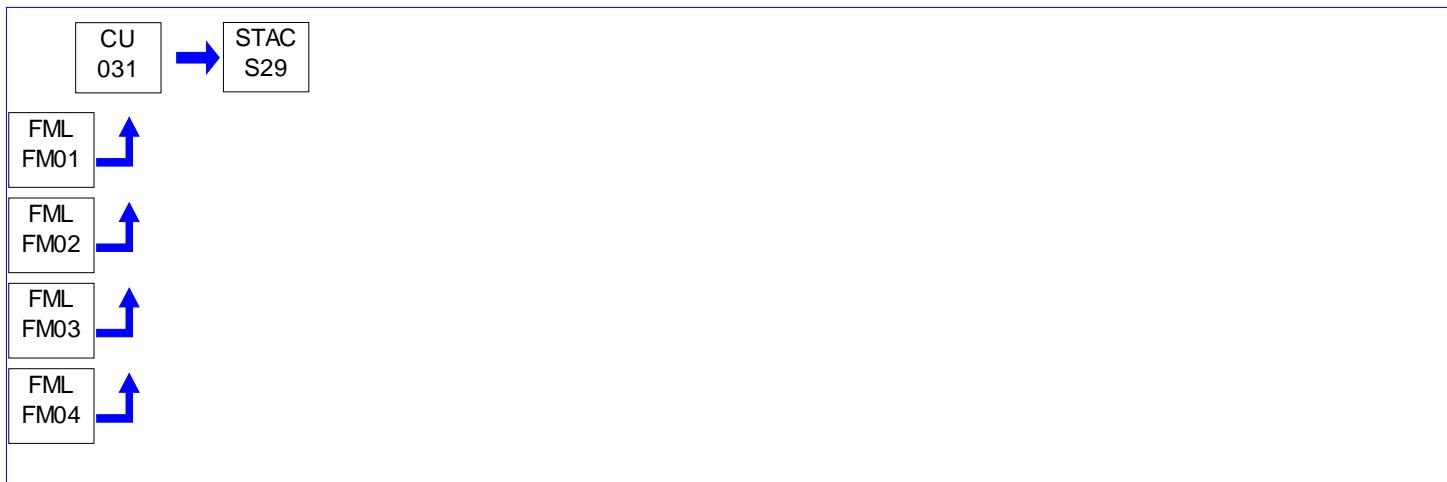
**SECTION D. Source Level Requirements**

Source ID: 031

Source Name: BOILER 1

Source Capacity/Throughput: 33.000 MMBTU/HR

Conditions for this source occur in the following groups: 123.22 & JJJJJ

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

[Additional authority for this permit condition is derived from Operating Permit 41-302-027D]

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

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

[Additional authority for this permit condition is derived from Operating Permit 41-302-027D]

The permittee shall not permit the emission of sulfur oxides, expressed as sulfur dioxide (SO₂), into the outdoor atmosphere from Source ID 031 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.**Fuel Restriction(s).****# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from Operating Permit 41-302-027D]

(a) Source ID 031 shall only be fired on the following fuels:

(1) gas (natural or LP),

(2) #2 fuel oil with a maximum sulfur content of 0.5% by weight,

(3) #6 oil with a maximum sulfur content of 1% by weight,

(4) 50/50 (or more) #2 fuel oil and tallow mixture or

(5) a tallow/natural gas firing combination such that the heat value provided by the tallow never exceeds 20% of the total heat input as described in the plan approval applications.

**SECTION D. Source Level Requirements**

(b) Additionally, Source ID 031 shall never be fired on any waste or reclaimed oil or fuel oil to which waste or reclaimed oil or waste materials other than tallow has been added.

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

[Additional authority for this permit condition is derived from Operating Permit 41-302-027D]

(a) Any tallow waste stream fired in Source ID 031 shall be fired in combination with natural gas such that the heat value provided by the tallow never exceeds 20% of total heat input, or

(b) mixed with an equal volume (or more) of #2 fuel oil prior to firing.

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

[Additional authority for this permit condition is derived from Operating Permit 41-302-027D]

Only those materials specifically identified in the applications and supplemental materials submitted for plan approval (41-302-027C and 41-302-027D) as being a possible constituent of "tallow" shall be mixed into the tallow fired in Source ID 031.

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

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

(a) The total combined quantity of #2 fuel oil combusted in Source IDs 031 and 032 shall not exceed 2,477,829 gallons in any 12 consecutive month period.

(b) The total combined quantity of #6 fuel oil combusted in Source IDs 031 and 032 shall not exceed 1,156,320 gallons in any 12 consecutive month period.

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

Upon request by the Department, the permittee shall provide the Department with fuel analyses and/or samples of the fuel used in Source ID 031.

III. MONITORING REQUIREMENTS.

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

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

(a) The permittee shall keep comprehensive and accurate records of the following information for Source ID 031:

(1) fuel analyses for the fuels used in Source ID 031 to demonstrate compliance with the fuel requirements for Source ID 031

(2) when firing on a tallow/natural gas combination, the total heat input value of the natural gas and the tallow being fired to demonstrate compliance with the tallow heat input restriction

**SECTION D. Source Level Requirements**

(3) the total quantity of each fuel combusted each day in Source ID 031

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

V. REPORTING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall submit reports to the Department on a quarterly basis containing the following information:

(1) the information necessary to demonstrate compliance with the Recordkeeping Requirements for Source ID 031

(2) the supporting calculations showing the total sulfur oxides emissions from Source ID 031 for each 12 consecutive month period for each month covered by the quarterly report.

(b) The quarterly reports shall be submitted to the Department by April 30 (covering January through March), July 31 (covering April through June), October 31 (covering July through September), and January 31 (covering October through December of the previous calendar year).

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 031 is an E. Keeler model DK-9-9 boiler with a maximum rated heat input capacity of 33 million Btu per hour.

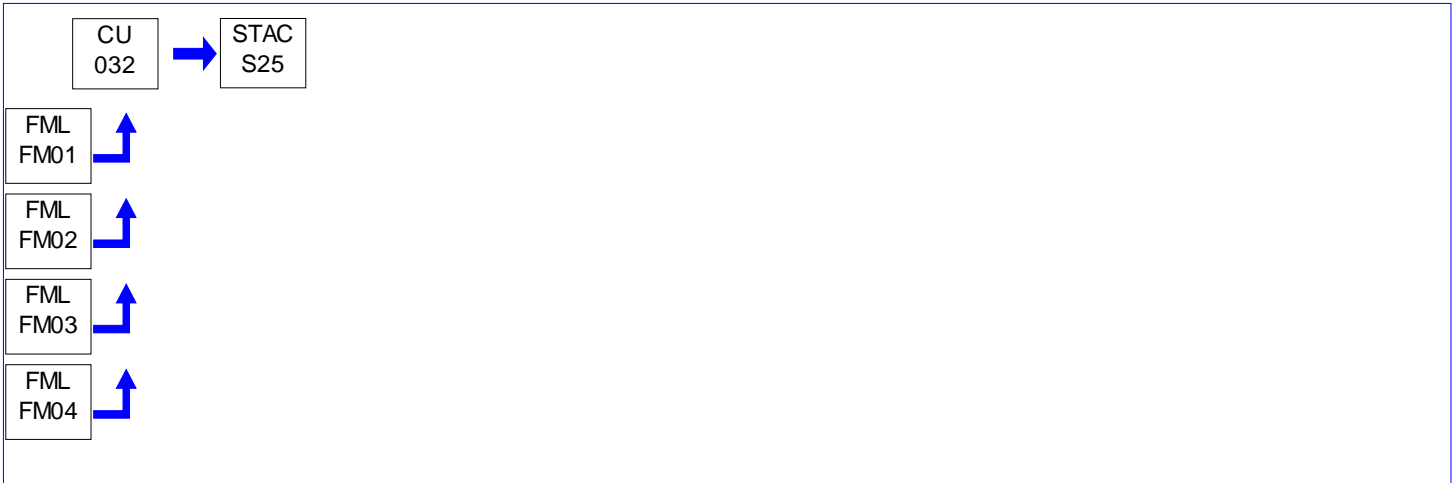
**SECTION D. Source Level Requirements**

Source ID: 032

Source Name: BOILER 2

Source Capacity/Throughput: 33.000 MMBTU/HR

Conditions for this source occur in the following groups: 123.22 & JJJJJ

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

[Additional authority for this permit condition is derived from Operating Permit 41-302-027D]

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

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

[Additional authority for this permit condition is derived from Operating Permit 41-302-027D]

The permittee shall not permit the emission of sulfur oxides, expressed as sulfur dioxide (SO₂), into the outdoor atmosphere from Source ID 032 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.**Fuel Restriction(s).****# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from Operating Permit 41-302-027D]

(a) Source ID 032 shall only be fired on the following fuels:

(1) gas (natural or LP),

(2) #2 fuel oil with a maximum sulfur content of 0.5% by weight,

(3) #6 oil with a maximum sulfur content of 1% by weight,

(4) 50/50 (or more) #2 fuel oil and tallow mixture or

(5) a tallow/natural gas firing combination such that the heat value provided by the tallow never exceeds 20% of the total heat input as described in the plan approval applications.

(b) Additionally, Source ID 032 shall never be fired on any waste or reclaimed oil or fuel oil to which waste or reclaimed oil

**SECTION D. Source Level Requirements**

or waste materials other than tallow has been added.

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

[Additional authority for this permit condition is derived from Operating Permit 41-302-027D]

(a) Any tallow waste stream fired in Source ID 032 shall be fired in combination with natural gas such that the heat value provided by the tallow never exceeds 20% of total heat input, or

(b) mixed with an equal volume (or more) of #2 fuel oil prior to firing.

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

[Additional authority for this permit condition is derived from Operating Permit 41-302-027D]

Only those materials specifically identified in the applications and supplemental materials submitted for plan approval (41-302-027C and 41-302-027D) as being a possible constituent of "tallow" shall be mixed into the tallow fired in Source ID 032.

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

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

(a) The total combined quantity of #2 fuel oil combusted in Source IDs 031 and 032 shall not exceed 2,477,829 gallons in any 12 consecutive month period.

(b) The total combined quantity of #6 fuel oil combusted in Source IDs 031 and 032 shall not exceed 1,156,320 gallons in any 12 consecutive month period.

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

Upon request by the Department, the permittee shall provide the Department with fuel analyses and/or samples of the fuel used in Source ID 032.

III. MONITORING REQUIREMENTS.

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

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

(a) The permittee shall keep comprehensive and accurate records of the following information for Source ID 032:

(1) fuel analyses for the fuels used in Source ID 032 to demonstrate compliance with the fuel requirements for Source ID 032

(2) when firing on a tallow/natural gas combination, the total heat input value of the natural gas and the tallow being fired to demonstrate compliance with the tallow heat input restriction

**SECTION D. Source Level Requirements**

(3) the total quantity of each fuel combusted each day in Source ID 032

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

V. REPORTING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall submit reports to the Department on a quarterly basis containing the following information:

(1) the information necessary to demonstrate compliance with the Recordkeeping Requirements for Source ID 032

(2) the supporting calculations showing the total sulfur oxides emissions from Source ID 032 for each 12 consecutive month period for each month covered by the quarterly report.

(b) The quarterly reports shall be submitted to the Department by April 30 (covering January through March), July 31 (covering April through June), October 31 (covering July through September), and January 31 (covering October through December of the previous calendar year).

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 032 is an E. Keeler model DK-9-9 boiler with a maximum rated heat input capacity of 33 million Btu per hour.

**SECTION D. Source Level Requirements**

Source ID: 038

Source Name: DOWTHERM BOILERS

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.11]

Combustion units

Each combustion unit incorporated in Source ID 038 shall not emit particulate matter in excess of the rate of 0.40 pounds per million Btu of heat input.

002 [25 Pa. Code §123.22]

Combustion units

The permittee shall not permit the emission of sulfur oxides, expressed as sulfur dioxide (SO₂), into the outdoor atmosphere from each combustion unit incorporated in Source ID 038 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each combustion unit incorporated in Source ID 038 shall only be fired on natural gas.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) Source ID 038 consists of the following combustion units:

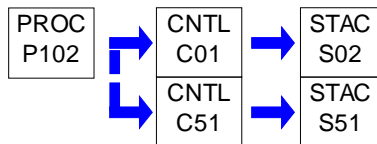
- (1) one 6 million Btu per hour Fulton model FT-0400C natural-gas fired boiler identified as Dowtherm boiler Middle.
- (2) one 6 million Btu per hour Fulton model FT-0400C natural-gas fired boiler identified as Dowtherm boiler East.
- (3) one 6 million Btu per hour Fulton model FT-0400C natural-gas fired boiler identified as Dowtherm boiler West.
- (4) one 3 million Btu per hour Fulton model FT-0380-A natural-gas fired boiler identified as Dowtherm boiler Research.

**SECTION D. Source Level Requirements**

Source ID: P102

Source Name: ACRAWAX BEADING TOWER

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-003E]

The concentration of particulate matter in the exhaust of Control Device ID C01 associated with Source ID P102 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

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

[Additional authority for this permit condition is derived from the Request for Determination dated March 18, 2011 and ensures compliance with 25 Pa. Code Section 123.13]

The concentration of particulate matter in the exhaust of Control Device ID C51 associated with Source ID P102 shall not exceed 0.01 grains per dry standard cubic foot of effluent gas volume.

II. TESTING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from the Request for Determination dated March 18, 2011]

Control Device ID C51 shall be equipped with instrumentation to continuously monitor the differential pressure across the collector.

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

V. REPORTING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-003E]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device ID C01, in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of the source and fabric collector.

[Additional authority for this permit condition is derived from the Request for Determination dated March 18, 2011]

The permittee shall keep on hand a sufficient quantity of spare spare cartridges for Control Device ID C51, in order to be able to immediately replace any cartridges requiring replacement due to deterioration resulting from routine operation of the source and cartridge collector.

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

The permittee shall not operate Source ID P102 without the simultaneous operation of Control Device IDs C01 and C51.

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

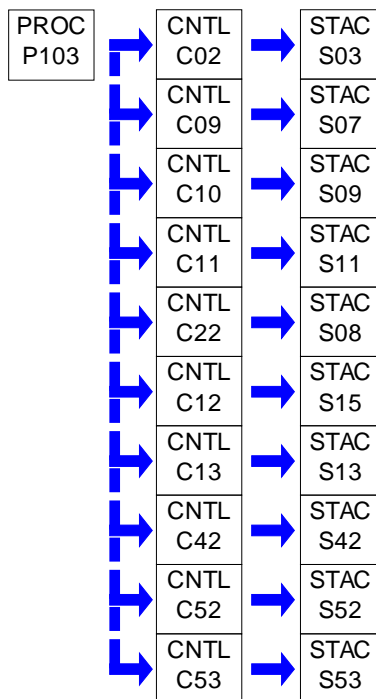
Source ID P102 is an AO Smith/Harvestore acrawax beading tower (BT-270) and Screening vibratory fluidized bed cooler (FBC) controlled by a MAC Equipment model 55RTC36 cartridge collector (designated as DC-280) (Control Device ID C51) and a Mikro-Pulsaire model #1305-8-20 fabric collector (DC-290) (Control Device ID C01).

**SECTION D. Source Level Requirements**

Source ID: P103

Source Name: ACRAWAX GRINDING & CONVEY

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

[Additional authority for this permit condition is derived from Plan Approval 41-313-003F]

(a) The concentration of particulate matter in the exhaust of Control Device ID C10 associated with the Acrawax conveying system incorporated in Source ID P103 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

[Additional authority for this permit condition is derived from Plan Approval 41-313-003F]

(b) The concentration of particulate matter in the exhaust of Control Device ID C09 associated with the Acrawax grinder (GR-400) incorporated in Source ID P103 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

[Additional authority for this permit condition is derived from the Request for Determination dated October 2, 1995]

(c) The concentration of particulate matter in the exhaust of Control Device ID C11 associated with the Acrawax grinder (GR-401) incorporated in Source ID P103 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

[Additional authority for this permit condition is derived from Plan Approval 41-313-003F]

(d) The concentration of particulate matter in the exhaust of Control Device ID C02 associated with the Acrawax grinder (GR-402) incorporated in Source ID P103 shall not exceed 0.01 grains per dry standard cubic foot of effluent gas volume.

[Additional authority for this permit condition is derived from Plan Approval 41-313-003F]

(e) The concentration of particulate matter in the exhaust of Control Device ID C42 associated with the Acrawax rework station (RW-410) incorporated in Source ID P103 shall not exceed 0.01 grains per dry standard cubic foot of effluent gas volume.

**SECTION D. Source Level Requirements****# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from the Request for Determination dated May 8, 2012 and ensures compliance with 25 Pa. Code Section 123.13]

The concentration of particulate matter in the exhaust of Control Device ID C13, incorporated in Source ID P103, shall not exceed 0.01 grains per dry standard cubic foot of effluent gas volume.

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

[Additional authority for this permit condition is derived from the Request for Determination dated May 16, 2011 and ensures compliance with 25 Pa. Code Section 123.13]

The concentration of particulate matter in the exhaust of Control Device ID C12, incorporated in Source ID P103, shall not exceed 0.01 grains per dry standard cubic foot of effluent gas volume.

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

[Additional authority for this permit condition is derived from the Request for Determination dated May 8, 2012]

Cartridge collector DC-3200 shall be not be operated more than 780 hours in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from Plan Approval 41-313-003F and the Request for Determinations dated May 16, 2011 and May 8, 2012]

Each of the cartridge collectors incorporated in Source ID P103 shall be equipped with instrumentation to monitor the differential pressure across the cartridge collector on a continuous basis.

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

[Additional authority for this permit condition is derived from the Request for Determination dated May 8, 2012]

The permittee shall keep comprehensive and accurate records of the number of hours Cartridge Collector DC-3200 (Control Device ID C13) is operated each month. All records generated pursuant to this condition shall be retained for a minimum of five years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from Plan Approval 41-313-003F]

Collected dust shall only be removed from each of the cartridge collectors incorporated in Source ID P103 by means of enclosed systems into enclosed containers.

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

[Additional authority for this permit condition is derived from Plan Approval 41-313-003F and the Request for Determinations dated May 16, 2011 and May 8, 2012]

The permittee shall keep on hand a sufficient quantity of spare cartridges for each cartridge collector incorporated in Source ID P103, in order to be able to immediately replace any cartridges requiring replacement due to deterioration resulting from routine operation of the sources and cartridge collector.

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

The permittee shall not operate any air contaminant source incorporated in Source ID P103 without the simultaneous operation of their respective control devices identified herein.

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-003E]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for each fabric collector incorporated in Source ID P103, in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of the sources and fabric collector.

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

(a) Source ID P103 consists of the following equipment:

(1) Acrawax conveying system controlled by two MAC Equipment model 39RTC21 Style III cartridge collectors (Control Device IDs C52 and C53) (DC-3079 and DC-3079 (formerly known as DC-3073 and DC-3074, respectively)) and an Aeropulse Jet R-34-10-H-N cartridge collector (Control Device ID C10) (DC-300B)

(2) IPEC/Ultra Rotor III Acrawax grinder (GR-400) controlled by a CAMCORP 84SFPRT37 cartridge collector (Control Device ID C09) (DC-402)

(3) IPEC/Rotormill 3000 Acrawax grinder (GR-401) controlled by a FlexKleen Corp. #120-CTWC-56(III) fabric collector (Control Device ID C11) (DC-407)

(4) IPEC/Ultra Rotor IIIA Acrawax grinder (GR-402) controlled by a CAMCORP 84SFPRT37 cartridge collector (Control Device ID C02) (DC-401)

(5) Metso Mineral/Bulk bag unloader Acrawax rework station (RW-410) controlled by a CAMCORP 4SFBH(84X16) cartridge collector (Control Device ID C42) (DC-409)

(6) Perry Products Acrawax reactor (68K) controlled by a Perry Products condenser (C-68) (Control Device ID C22)

(7) Nuisance dust pick-ups located at the Acrawax rework station controlled by a Mac Equipment model 55RTC80 cartridge collector (Control Device ID C12) (DC-400)

**SECTION D. Source Level Requirements**

(8) Spencer Turbine Co. model LH830NB5-MOD cartridge collector (Control Device ID C13) (DC-3200) central vacuum system for the Acrawax process and packaging area.

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

[Additional authority for this permit condition is derived from Plan Approval 41-313-003F]

The air compressor used to supply compressed air to each of the cartridge collectors incorporated in Source ID P103 shall be equipped with an air dryer and an oil trap.

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

[Additional authority for this permit condition is derived from the Request for Determination dated February 17, 2011]

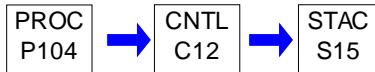
The two MAC Equipment model 39RTC21 Style III cartridge collectors (Control Device IDs C52 and C53) (DC-3079 and DC-3079 (formerly known as DC-3073 and DC-3074, respectively)) shall not be used to generate any emission reduction credits.

**SECTION D. Source Level Requirements**

Source ID: P104

Source Name: ACRAWAX BAGGING AND DRUMMING

Source Capacity/Throughput:

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from the Request for Determination dated May 16, 2011 and ensures compliance with 25 Pa. Code Section 123.13]

The concentration of particulate matter in the exhaust of Control Device ID C12 associated with the Acrawax packaging systems incorporated in Source ID P104 shall not exceed 0.01 grains per dry standard cubic foot of effluent gas volume.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from the Request for Determination dated May 16, 2011]

Control Device ID C12 shall be equipped with instrumentation to continuously monitor the differential pressure across the collector.

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from the Request for Determination dated May 16, 2011]

The permittee shall keep on hand a sufficient quantity of spare cartridges for the cartridge collector Control Device ID C12 in order to be able to immediately replace any cartridges requiring replacement due to deterioration resulting from routine operation of the sources and cartridge collector.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

**SECTION D. Source Level Requirements**

[Additional authority for this permit condition is derived from the Request for Determination dated May 16, 2011]

The permittee shall not operate any air contaminant source incorporated in Source ID P104 without the simultaneous operation of the respective control device identified herein.

VII. ADDITIONAL REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

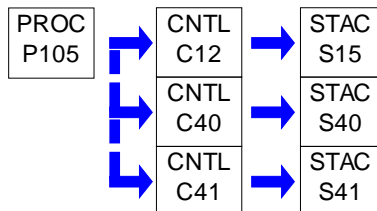
Source ID P104 consists of one Acrawax packaging system of two 5300 cubic foot bins controlled by a Mac Equipment model 55RTC80 cartridge collector (Control Device ID C12) (DC-400).

**SECTION D. Source Level Requirements**

Source ID: P105

Source Name: ACRAWAX STORAGE BINS

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from Plan Approval 41-313-003F]

(a) The concentration of particulate matter in the exhaust of Control Device ID C40 associated with the Acrawax storage bin (Silo 1) incorporated in Source ID P105 shall not exceed 0.01 grains per dry standard cubic foot of effluent gas volume.

(b) The concentration of particulate matter in the exhaust of Control Device ID C41 associated with the Acrawax storage bin (Silo 2) incorporated in Source ID P105 shall not exceed 0.01 grains per dry standard cubic foot of effluent gas volume.

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

[Additional authority for this permit condition is derived from the Request for Determination dated May 16, 2011 and ensures compliance with 25 Pa. Code Section 123.13]

The concentration of particulate matter in the exhaust of Control Device ID C12 associated with the nuisance dust pick-ups incorporated in Source ID P105 shall not exceed 0.01 grains per dry standard cubic foot of effluent gas volume.

II. TESTING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from Plan Approval 41-313-003F and the Request for Determination dated May 16, 2011]

Each of the cartridge collectors incorporated in Source ID P105 shall be equipped with instrumentation to monitor the differential pressure across the cartridge collector on a continuous basis.

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

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

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

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

[Additional authority for this permit condition is derived from Plan Approval 41-313-003F]

Collected dust shall only be removed from each of the cartridge collectors incorporated in Source ID P105 by means of enclosed systems into enclosed containers.

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

[Additional authority for this permit condition is derived from Plan Approval 41-313-003F and the Request for Determination dated May 16, 2011]

The permittee shall keep on hand a sufficient quantity of spare cartridges for each cartridge collector incorporated in Source ID P105, in order to be able to immediately replace any cartridges requiring replacement due to deterioration resulting from routine operation of the sources and cartridge collector.

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

The permittee shall not operate any air contaminant source incorporated in Source ID P105 without the simultaneous operation of their respective control devices identified herein.

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

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for each fabric collector incorporated in Source ID P105, in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of the sources and fabric collector.

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

[Additional authority for this permit condition is derived from Plan Approval 41-313-003F]

The air compressor used to supply compressed air to each of the cartridge collectors incorporated in Source ID P105 shall be equipped with an air dryer and an oil trap.

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

(a) Source ID P105 consists of the following equipment:

(1) Acrawax storage bin (Silo 1) controlled by a CAMCORP 6SFBH 84X36 cartridge collector (Control Device ID C40) (DC-410)

(2) Acrawax storage bin (Silo 2) controlled by a CAMCORP 6SFBH 84X36 cartridge collector (Control Device ID C41) (DC-411)

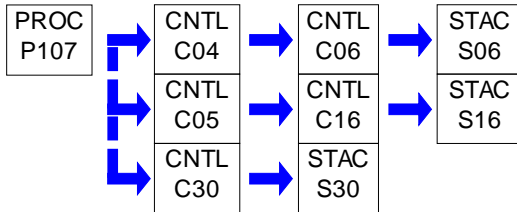
(3) Nuisance dust pick-ups located at the Acrawax storage bins controlled by a Mac Equipment model 55RTC80 cartridge collector (Control Device ID C12) (DC-400)

**SECTION D. Source Level Requirements**

Source ID: P107

Source Name: HALO FLUID BED DRYERS #1 & #2 & DMH FLUID BED DRYER

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-007G]

The concentration of particulate matter in the exhaust of each Control Device IDs C16 and C06 associated with the Fluid Dryers #1 and #2 respectively, incorporated in Source ID P107 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

002 [25 Pa. Code §123.13]**Processes**

[Additional authority for this permit condition is derived from the Request for Determination dated July 16, 2007]

The concentration of particulate matter in the exhaust of Control Device ID C30 associated with the DMH dryer incorporated in Source ID P107 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas all volume.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

(a) The permittee shall maintain records of the dates of fabric collector bag replacements.

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

V. REPORTING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-007G]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device IDs C16 and C06, in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of the sources and fabric collectors.

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-007G]

The permittee shall maintain equipment that measures the pressure drop across fabric collector F-220 (Control Device ID C16).

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-011B]

The permittee shall, as much as is practicable, maximize the amount of scrubber solution drawn off for process use but shall, at a minimum, draw off all of the solution in circulation, and replace it with fresh water, no less frequently than once per month. If, for some reason, process use becomes an unacceptable disposal method, the company shall draw off and otherwise dispose of all of the scrubber solution in circulation, and replace it with fresh water, no less frequently than once per month.

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-011B]

The permittee shall not operate ID C30 at any time unless that specific scrubber is required for air contaminant emission control.

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

Source ID P107 consists of the following air contaminant sources:

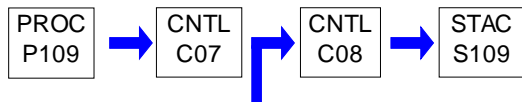
- (1) one Swenson fluid bed dryer #1 controlled by an Emtrol cyclone (S-220) (Control Device ID C05) and a StaClean Diffuser Company model #60-11(8) CADS fabric collector (F-220) (Control Device ID C16) and
- (2) one Swenson fluid bed dryer #2 controlled by an Emtrol cyclone (S-320) (Control Device ID C04) and a StaClean Diffuser Company model #151-10-CAD fabric collector (F-321) (Control Device ID C06)
- (3) one Kason model K48/60-1FBD-SS DMH fluid bed dryer controlled by the Ducon model CT, series 2C, size 78 packed tower scrubber #3 (Control Device ID C30). Authority for this permit condition is derived from the Request for Determination dated July 16, 2007.

**SECTION D. Source Level Requirements**

Source ID: P109

Source Name: FOUR HALOHYDANTOIN CHLORINATORS

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-007G]

The concentration of particulate matter in the exhaust of Control Device ID C08 associated with the four chlorinators incorporated in Source ID P109 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

V. REPORTING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-007G]

The permittee shall maintain equipment that measures the caustic scrubbing solution flow rates to each of the venturi scrubbers (Control Device ID C07) and the packed bed scrubber (Control Device ID C08).

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-007G]

The permittee shall maintain equipment that measures the pressure drop across the packed bed scrubber #2 (Control Device ID C08).

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

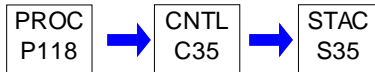
Source ID P109 consists of four chlorinators (CL-13, CL-14, CL-15, and CL-16). Each of the chlorinators are controlled by a venturi jet scrubber (Control Device ID C07) and all of the venturi jet scrubbers exhaust into a single Bionomics Industries, series 5000, model #60 counter current packed tower scrubber #2 (Control Device ID C08) utilizing caustic solution as a scrubbing medium.

**SECTION D. Source Level Requirements**

Source ID: P118

Source Name: HALOHYDANTOIN PROCESS

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

[Additional authority for this permit condition is derived from Operating Permit 41-313-007G]

The concentration of particulate matter in the exhaust of Control Device ID C35 associated with Source ID P118 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from Operating Permit 41-313-007G]

The packed bed scrubber #3 (Control Device ID C35) shall not utilize less than 70 gallons per minute of caustic solution and maintain a pressure drop across the bed of not greater than 8 inches water gage pressure.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from Operating Permit 41-313-007G]

The packed bed scrubber #3 (Control Device ID C35) shall use only caustic solution as a scrubbing medium.

**SECTION D. Source Level Requirements****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from Operating Permit 41-313-007G]

The permittee shall maintain equipment that measures the caustic scrubbing solution flow rate to the packed bed scrubber (Control Device ID C35).

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-007G]

The permittee shall maintain equipment that measures the pressure drop across the packed bed scrubber #3 (Control Device ID C35).

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

(a) Source ID P118 consists of the following air contaminant sources:

- (1) five centrifuge feed tanks (T25, T26, T225, T226, and T112)
- (2) one Western States centrifuge (X-220)
- (3) one Ketema centrifuge (X-320A)
- (4) one Bird centrifuge (X-320B)
- (5) one chlorine car emergency vent system
- (6) one Tank 117 rework station (T-117)
- (7) Scrubber Water Storage Tank (Request for Determination dated June 27, 2011)

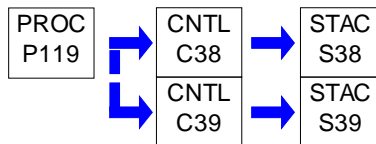
(b) The above air contaminant sources are controlled by a Bionomics Industries countercurrent packed tower scrubber #3 (Control Device ID C35).

**SECTION D. Source Level Requirements**

Source ID: P119

Source Name: HALOHYDANTOIN CONVEY/PACKAGING/POWDER

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-007G]

The concentration of particulate matter in the exhaust of Control Device IDs C38 and C39 associated with Source ID P119 shall not exceed 0.02 grains per dry standard cubic foot of effluent gas volume.

II. TESTING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-007G]

(a) Control Device IDs C38 and C39 associated with Source ID P119 shall each be equipped with a pressure drop monitor that will accurately monitor the pressure drop across each fabric collector.

(b) Each fabric collector monitor shall be connected to an alarm that will sound should the pressure drop exceed any pre-set limit.

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

(a) The permittee shall keep comprehensive and accurate records of fabric collector bag replacements, dates and times of fabric collector pressure drop alarm sounded and corrective action that was taken.

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

V. REPORTING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-007G]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device IDs C38 and C39, in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of the sources and fabric collectors.

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

(a) Source ID P119 consists of the following air contaminant sources:

- (1) one Taylor Products Supersacker IBC-3000 (X-809)
- (2) one Taylor Products Supersacker IBC-3000 (X-807)
- (3) one hopper (H-800)
- (4) one Renold screener (X-802)
- (5) one bucket elevator (X-803)
- (6) granulation packout hopper (H-806)
- (7) one powder packout hopper (H-815)
- (8) BEPEX granulation compactor (X-801)
- (9) BEPEX grinder (X-805)
- (10) one Rotex screener (80w AMS/MS) (X-804)
- (11) powder screener (X-816)
- (12) one Elizabeth tableter press (ME-2034)
- (13) one supersack dump station (ME-2034D)
- (14) one tableter hopper (H-2034)
- (15) at least five additional pickups for the control of product spills and nuisance dust.

The above air contamination sources are controlled by a MAC Equip model 96RT80 Style III fabric collector (F-850) (Control Device ID C38). Authority for requiring ME-2034, ME-2034D, and H-2034 be controlled by ID C38 is derived from the Request for Determination dated October 30, 2008.

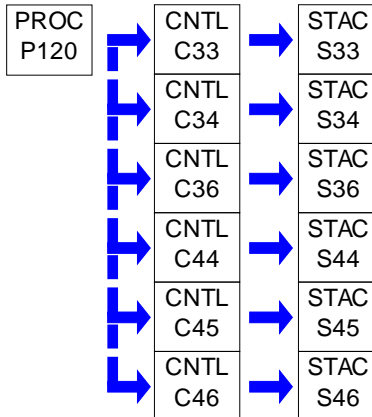
(16) three (3) enclosed screw conveyors conveyor system controlled by a MAC Equip model 96RT80 Style III fabric collector (F-800) (Control Device ID C39). ID C39 also acts as a receiver because it receives the halohydrantoin powders from the fluid bed dryers incorporated in Source ID P107 and conveys said powders to hopper (H-800) identified above.

**SECTION D. Source Level Requirements**

Source ID: P120

Source Name: HALOHYDANTOIN PROCESS EQUIPMENT

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-007G]

The concentration of particulate matter in the exhaust of each Control Device IDs C33, C34, C45, C36, C46, and C44 associated with Source ID P120 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

V. REPORTING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-007G]

**SECTION D. Source Level Requirements**

The permittee shall maintain equipment that measures the pressure drop across fabric collector F-421 (ID C44).

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-007G]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device IDs C33, C34, C45, C36, C46, and C44 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of the sources and fabric collectors.

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

(a) Source ID P120 consists of the following air contaminant sources:

- (1) one BEPEX briquetter #1 (V-301)
- (2) one BEPEX briquetter #2 (X-700A)
- (3) one 700 hopper (H-700)
- (4) one bin (H-650)
- (5) one 15ft screw conveyor (X-654)
- (6) one hopper (V-211)
- (7) one Taylor Products packaging sacker #1 (IBC-3000) (X-660)
- (8) one Taylor Products packaging sacker #2 (IBC-3000) (X-663)
- (9) one Taylor Products packaging sacker #3 (IBC-3000) (X-664)
- (10) one Farval rotary dryer load hatch (RD-22)
- (11) one RD-22 halo conveyor (SC-22B)
- (12) one RD-22 DMH conveyor (SC-100)
- (13) one Staclean receiver 49-8-CAD (DS-651) F-650 oversize.

The above air contaminant sources are controlled by a StaClean Diffuser Company model 60-118(8) CADS fabric collector (F-421) (Control Device ID C44).

(14) one conveying system whose air contaminant emissions are controlled by a StaClean Diffuser Co. model 59-8-CAD fabric collector (F-700) (Control Device ID C46).

(15) one Flex-Kleen model #58C25 fabric collector (F-200) (Control Device ID C34) which is used to capture product and reintroduce the product back into the system.

(16) one Evo Corp. model 58-FR034E fabric collector (F-100) (Control Device ID C33) which is used to capture product and reintroduce the product back into the system.

**SECTION D. Source Level Requirements**

(17) one Evo Corp. model 58-FR046E fabric collector (F-300) (Control Device ID C45) which is used to capture product and reintroduce the product back into the system.

(18) one StaClean Diffuser Co. model 59-8-CAD fabric collector (F-700) (Control Device ID C46) which is used to capture product and reintroduce the product back into the system.

(19) one StaClean Diffuser Co. model 24-5-C fabric collector (F-400) (Control Device ID C36) which is used to capture product and reintroduce the product back into the system.

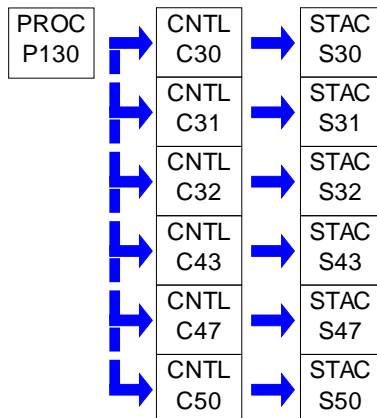
(20) one StaClean Diffuser Co. model 60-118(8) CADS fabric collector (F-421) (Control Device ID C44).

**SECTION D. Source Level Requirements**

Source ID: P130

Source Name: RESINS/GLYDANT PRODUCTION

Source Capacity/Throughput:

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-011B]

(a) The concentration of particulate matter in the exhaust of Control Device ID C31 incorporated in Source ID P130 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

(b) The concentration of particulate matter in the exhaust of Control Device ID C32 incorporated in Source ID P130 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

(c) The concentration of particulate matter in the exhaust of Control Device ID C30 incorporated in Source ID P130 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

(d) The concentration of particulate matter in the exhaust of Control Device ID C43 incorporated in Source ID P130 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

(e) The concentration of particulate matter in the exhaust of Control Device ID C47 incorporated in Source ID P130 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

(f) The concentration of particulate matter in the exhaust of Control Device ID C50 incorporated in Source ID P130 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

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

[Additional authority for this permit condition is derived from Request for Determination dated September 30, 2015]

The total volatile organic compounds emissions, from the manufacture of NUGEN 2MWipe Concentrate, shall not exceed 0.03 tons in any 12 consecutive month period and hazardous air pollutant emissions shall not exceed 0.03 tons in any 12 consecutive month period.

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-011B]

The combined formaldehyde emissions from the American Process Systems model NFBD-200 P-HCHO dumping station (H-100) and the Tolan Machinery Company Glydant XL-1000 reactor (R-200) shall not exceed 0.23 tons in any 12

**SECTION D. Source Level Requirements**

consecutive month period.

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

[Additional authority for this permit condition is derived from the Request for Determination dated June 7, 2002]

No more than 70 pounds of phenoxyethanol and 620 pounds of benzl alcohol shall be emitted from mix Tank 199 to the Ducon model CT, series 2C, size 42 packed tower scrubber (Control Device ID C32).

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

[Additional authority for this permit condition is derived from the Request for Determination dated February 22, 2019]

(a) The total volatile organic compounds emissions from the manufacture of Lonzagard R-82G shall not exceed 0.03 tons in any 12 consecutive month period.

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

[Additional authority for this permit condition is derived from the Request for Determination dated August 31, 2018]

(a) The total volatile organic compounds emissions from the manufacture of Hyamine 1622-50 Intermediate shall not exceed 0.04 tons in any 12 consecutive month period.

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

[Additional authority for this permit condition is derived from the Request for Determination dated November 14, 2019]

(a) The total volatile organic compounds emissions from the manufacture of Omacide IPBC 40 shall not exceed 50.0 pounds in any 12 consecutive month period

(b) The total hazardous air pollutant emissions from the manufacture of Omacide IPBC 40 shall not exceed 50.0 pounds in any 12 consecutive month period.

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

[Additional authority for this permit condition is derived from the Request for Determination dated September 30, 2015]

The permittee shall not manufacture more than 150,000 pounds of NUGEN 2M Wipe Concentrate in any 12 consecutive month period.

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

[Additional authority for this permit condition is derived from the Request for Determination dated December 28, 2016]

The permittee shall not manufacture more than 250,000 pounds of Carboshield BTX in any 12 consecutive month period.

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

[Additional authority for this permit condition is derived from the Request for Determination dated February 22, 2019]

(a) The permittee shall not manufacture more than 170,000 pounds of Lonzagard R-82G in any 12 consecutive month

**SECTION D. Source Level Requirements**

period.

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

[Additional authority for this permit condition is derived from the Request for Determination dated November 14, 2019]

(a) The permittee shall not manufacture more than 170,000 pounds of Omacide IPBC 40 in any 12 consecutive month period.

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

[Additional authority for this permit condition is derived from the Request for Determination dated August 31, 2018]

(a) The permittee shall not manufacture more than 170,000 pounds of Hyamine 1622-50 Intermediate in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from the Request for Determination dated September 30, 2015]

(a) The permittee shall keep comprehensive and accurate records of the total quantity (in pounds) of NUGEN 2M Wipe Concentrate each month.

(b) The permittee shall keep comprehensive and accurate records of the total volatile organic compounds and hazardous air pollutant emissions each month to demonstrate compliance with the volatile organic compounds and hazardous air pollutant emissions limitations from NUGEN 2M Wipe Concentrate.

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

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

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

(1) The volatile organic compound and/or hazardous air pollutant emissions shall be calculated on a monthly basis and this data shall be used to determine compliance with the emission limits for the phenoxyethanol and benzl alcohol for mix Tank 199.

(2) The formaldehyde emissions shall be calculated on a monthly basis and this data shall be used to determine compliance with the emission limitation for the American Process Systems model NFBD-200 P-HCHO dumping station (H-100) and the Tolan Machinery Company Glydant XL-1000 reactor (R-200).

**SECTION D. Source Level Requirements**

(3) The supporting documents used to calculate the above emissions, such documentation includes material safety data sheets, chemical analyses, etc.

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

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

(a) The permittee shall keep comprehensive and accurate records of the materials used to manufacture Natrulon HT, Natrulon HT Butterfly, Natrulon RC-50DG, Carboshield BTA, Carboshield STS, Carboshield BTX, NUGEN 2M Wipe Concentrate, and Ready-To-Use Formulation.

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

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

[Additional authority for this permit condition is derived from the Request for Determination dated July 9, 2010]

(a) The permittee shall keep comprehensive and accurate records of the total quantity of Carboshield BTX produced each month. Additionally, the permittee shall keep comprehensive and accurate records of the total quantity of methanol emitted each month.

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

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

[Additional authority for this permit condition is derived from the Request for Determination dated February 22, 2019]

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

(1) The total volatile organic compounds each month to demonstrate compliance with the volatile organic compounds emissions limitation for the manufacture of Lonzagard R-82G.

(2) The total amount (in pounds) of Lonzagard R-82G manufactured each month to demonstrate compliance with the respective throughput limitation.

(3) The materials, and mixture ratios, used to manufacture Lonzagard R-82G as well as corresponding up-to-date MSDS sheets.

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

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

[Additional authority for this permit condition is derived from the Request for Determination dated November 14, 2019]

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

(1) The total volatile organic compounds and hazardous air pollutant emissions each month to demonstrate compliance with the volatile organic compounds and hazardous air pollutant emissions limitations for the manufacture of Omacide IPBC 40.

**SECTION D. Source Level Requirements**

(2) The total amount (in pounds) of Omacide IPBC 40 manufactured each month to demonstrate compliance with the throughput limitation.

(3) The materials used to manufacture the Omacide IPBC 40 as well as their corresponding up-to-date MSDS sheets.

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

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

[Additional authority for this permit condition is derived from the Request for Determination dated August 31, 2018]

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

(1) The total volatile organic compounds emissions each month to demonstrate compliance with the volatile organic compounds emissions limitation for the manufacture of Hyamine 1622-50 Intermediate.

(2) The total amount (in pounds) of Hyamine 1622-50 Intermediate manufactured each month to demonstrate compliance with the throughput limitation.

(3) The materials used to manufacture the Hyamine 1622-50 Intermediate as well as their corresponding up-to-date MSDS sheets.

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

V. REPORTING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-011B]

The permittee shall, as much as is practicable, maximize the amount of scrubber solution drawn off for process use but shall, at a minimum, draw off all of the solution in circulation, and replace it with fresh water, no less frequently than once per month. If, for some reason, process use becomes an unacceptable disposal method, the company shall draw off and otherwise dispose of all of the scrubber solution in circulation, and replace it with fresh water, no less frequently than once per month.

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-011B]

The permittee shall not operate any of the three packed tower scrubbers at any time unless that specific scrubber is required for air contaminant emission control, or in the case of the size 42 scrubber only, for use as an evaporative cooler.

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-011B]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for each fabric collector incorporated in Source ID P130, in order to be able to immediately replace any bags requiring replacement due to deterioration resulting

**SECTION D. Source Level Requirements**

from routine operation of the sources and fabric collector.

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-011B]

The permittee shall keep on hand a sufficient quantity of spare cartridges for each cartridge collector incorporated in Source ID P130, in order to be able to immediately replace any cartridges requiring replacement due to deterioration resulting from routine operation of the sources and cartridge collector.

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

[Additional authority for this permit condition is derived from the Request for Determination dated September 30, 2015]

(a) Only those materials identified in the September 30, 2015 Request for Determination shall be used to manufacture NUGEN 2M Wipe Concentrate.

(b) Tank 199 shall be vented to the Ducon model CT series 2C size 42 packed tower scrubber #2 (ID C32) when used to manufacture NUGEN 2M Wipe Concentrate.

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

(a) Source ID P130 consists of the following equipment for producing liquid and solid Glydant:

(1) Glydant Reactor (K-31), Glydant mix tank (HT102), hold tank (HT29) drumming tank (HT119), tote rinse station, sample box, scrubber water tank, air pump pit, and Glydant drumming stations all controlled by Ducon model CT, series 2C, size 36 packed tower scrubber #1 (Control Device ID C31)

(2) Tank 199 and two sock filters controlled by a Ducon model CT, series 2C, size 42 packed tower scrubber #2 (Control Device ID C32)

(3) American Process Systems model NFBD-200 P-HCHO dump station (H-100), Tank 600, Tank 601, and a Tolan Machinery Glydant XL-1000 reactor (R-200) controlled by a Ducon model CT, series 2C, size 78 packed tower scrubber #3 (Control Device ID C30). The particulate matter emissions from the American Process Systems model NFBD-200 P-HCHO dump station (H-100) are controlled by three cartridge filters which are inherent part of the station and the particulate matter emissions from the Tolan Machinery Glydant XL-1000 reactor (R-200) are controlled by a fabric collector (S-200) (Control Device ID C47). The formaldehyde emissions from the American Process Systems model NFBD-200 P-HCHO dump station (H-100) and the Tolan Machinery Glydant XL-1000 reactor (R-200) are controlled by a Ducon model CT, series 2C, size 78 packed tower scrubber #3 (Control Device ID C30).

(4) American Process Systems model DRB-155 Glydant Plus ribbon blender (V-203), P100 IPBC dump station (H201), bucket elevator (X-206), single deck screen (SCR-202), S-400 baghouse drop out drum, S-600 baghouse drop out drum, Tolan Machinery Solid Glydant reactor sample port (R-200), Pittsburgh Tank hopper (H-300), XL 1000 package stations, and various housekeeping connections all controlled by a Flex-Kleen Corporation #100-CTTC-38 fabric collector (S-400) (Control Device ID C43).

(5) Various housekeeping connections controlled by a Spencer model JH9300A6 fabric collector (S-600) (Control Device ID C50).

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

[Additional authority for this permit condition is derived from the Minor Modification letter dated September 15, 1998]

**SECTION D. Source Level Requirements**

The Glydant mix tank (HT-102) can be used for the production of a liquid form of Glydant Plus, as described in a letter dated June 17, 1998 from Jeb E. Jonas to John Twardowski.

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

[Additional authority for this permit condition is derived from the Request for Determination dated October 12, 2004]

(a) Only those materials identified in the October 12, 2004 Request for Determination shall be used to manufacture Natrulon HT.

(b) Tank 199 shall be vented to the Ducon model CT series 2C size 42 packed tower scrubber #2 (ID C32) when used to manufacture Natrulon HT.

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

[Additional authority for this permit condition is derived from the Request for Determination dated June 7, 2002]

(a) Tank 199 shall be vented to the Ducon model CT series 2C size 42 packed tower scrubber #2 (ID C32) when used to manufacture Geogard.

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

[Additional authority for this permit condition is derived from the Request for Determination dated April 6, 2005]

(a) Only those materials identified in the April 6, 2005 Request for Determination shall be used to manufacture Natrulon HT Butterfly.

(b) Tank 199 shall be vented to the Ducon model CT series 2C size 42 packed tower scrubber #2 (ID C32) when used to manufacture Natrulon HT Butterfly.

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

[Additional authority for this permit condition is derived from the Request for Determination dated November 27, 2006]

(a) Only those materials identified in the November 27, 2006 Request for Determination shall be used to manufacture Natrulon RC-50DG.

(b) Tank 199 shall be vented to the Ducon model CT series 2C size 42 packed tower scrubber #2 (ID C32) when used to manufacture Natrulon RC-50DG.

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

[Additional authority for this permit condition is derived from the Request for Determination dated February 7, 2007]

(a) Only those materials identified in the February 7, 2007 Request for Determination shall be used to manufacture Carboshield BTA.

(b) Tank 199 shall be vented to the Ducon model CT series 2C size 42 packed tower scrubber #2 (ID C32) when used to manufacture Carboshield BTA.

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

[Additional authority for this permit condition is derived from the Request for Determination dated June 11, 2008]

**SECTION D. Source Level Requirements**

(a) Only those materials identified in the June 11, 2008 Request for Determination shall be used to manufacture Carboshield STS.

(b) Tank 199 shall be vented to the Ducon model CT series 2C size 42 packed tower scrubber #2 (ID C32) when used to manufacture Carboshield STS.

033 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from the Request for Determination dated August 5, 2008]

(a) Only those materials identified in the August 5, 2008 Request for Determination shall be used to manufacture Ready-To-Use Formulation.

(b) Tank 199 shall be vented to the Ducon model CT series 2C size 42 packed tower scrubber #2 (ID C32) when used to manufacture Ready-To-Use Formulation.

034 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from the Request for Determination dated July 9, 2010]

(a) Only those materials identified in the July 9, 2010 Request for Determination shall be used to manufacture Carboshield BTX.

(b) Tank 199 shall be vented to the Ducon model CT series 2C size 42 packed tower scrubber #2 (ID C32) when used to manufacture Carboshield BTX.

035 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from the Request for Determination dated February 22, 2019]

(a) The permittee shall manufacture Lonzagard R-82G using only those materials identified in the RFD.

(b) The permittee shall vent Tank 199 to the Ducon Size 42 water scrubber (Control Device ID C32) anytime Lonzagard R-82G is being manufactured.

036 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from the Request for Determination dated November 14, 2019]

(a) The permittee shall manufacture Omacide IPBC 40 using only those materials identified in the RFD.

(b) The permittee shall vent Tank 199 to the Ducon Size 42 water scrubber (Control Device ID C32) anytime Omacide IPBC 40 is being manufactured.

037 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from the Request for Determination dated August 31, 2018]

(a) The permittee shall manufacture Hyamine 1622-50 Intermediate using only those materials identified in the RFD.

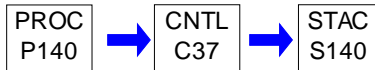
(b) The permittee shall vent Tank 199 to the Ducon Size 42 water scrubber (Control Device ID C32) anytime Hyamine 1622-50 Intermediate is being manufactured.

**SECTION D. Source Level Requirements**

Source ID: P140

Source Name: BLDG 30 CHEMICAL PROCESS AREA

Source Capacity/Throughput:

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

(a) The permittee shall keep comprehensive and accurate records of the number of batches of Surfazine produced each month in the process equipment incorporated in Source ID P140.

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

V. REPORTING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-014A]

The specific process equipment, process steps and raw materials used in this chemical process area shall not be changed from those described in the application and supplemental materials submitted for Plan Approval 41-313-014 without prior approval of the Department of Environmental Protection except that the process equipment may be used to produce Surfazine provided the production is carried out as described in the Request for Determination submitted on July 30, 2004, and Michael T. Shaffer's August 6, 2004, letter to Richard Maxwell and provided no more than 55 batches of Surfazine are produced in any 12 consecutive month period.

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

[Additional authority for this permit condition is derived from Operating Permit 41-313-014A]

**SECTION D. Source Level Requirements**

(a) When the scrubber is in use, the packed bed scrubbing solution shall be recirculated at a rate of at least 20 gallons per minute and shall be maintained at a sodium hydroxide concentration between 9% and 10%.

(b) Equipment shall be provided so that the caustic flow rate and pressure drop across the scrubber can be measured.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from Operating Permit 41-313-014A]

The air contaminant emissions from the transfer of epichlorohydrin and methyl acrylate from drums into head tanks T-301 and T-302 and from the head tanks into reactor R-301 shall be controlled by a Croll-Reynolds, Inc. model 20T-20H/30V packed bed scrubber. The scrubber need not, however be operated if the epichlorohydrin and methyl acrylate is transferred from totes, rather than from drums, into head tanks T-301 and T-302 while the tanks are under vacuum, and from head tanks T-301 and T-302 to reactor R-301 while the reactor is under vacuum, if the vacuum is created prior to the transfer and the vacuum pump is not operated during the actual transfer.

[Additional authority for the following permit condition is derived from the Request for Determination dated April 29, 2013]

The work practice requirement above also applies to the transfer of ethyl acrylate. This material was approved in the Request for Determination dated April 29, 2013.

VII. ADDITIONAL REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Source ID P140 Building 30 process equipment consists of the following:

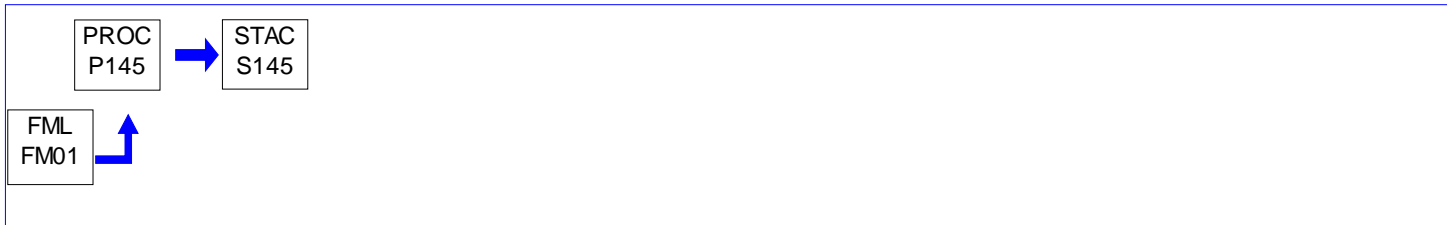
- (1) two Reactors (R-301 and R-302)
- (2) two Feed Tanks (T-301 and T-302)
- (3) one Emergency Overflow Tank (T-309)
- (4) two Condensate Receivers (T-306 and T-307)
- (5) four Product Receivers (T-340, T-341, T-342 and T-343)
- (6) three Condensers (HE-301, HE-302 and HE-303)
- (7) three Vacuum Jet Condensers (HE-301A, HE-302A, and HE-303A)
- (8) two Vacuum Pumps 9VP-300 and VP-301)
- (9) one Reflux Column (C-302)
- (10) one Surfactant Transfer Station
- (11) one Surfactant drum unload station
- (12) one epichlorohydrin storage
- (13) one Filter Aid Tank (T-305B)
- (14) one filter press (F-301)

**SECTION D. Source Level Requirements**

Source ID: P145

Source Name: EMERGENCY GENERATORS

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

The concentration of particulate matter in the exhaust of each emergency generator incorporated in Source ID P145 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

002 [25 Pa. Code §123.21]

General

The concentration of sulfur oxides, expressed as sulfur dioxide (SO₂), in the exhaust from each emergency generator incorporated in Source ID P145 shall not exceed 500 parts per million, by volume, dry basis.

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?**

[Additional authority for this permit condition is derived from 40 CFR Section 60.4233(e)]

(a) The nitrogen oxide emissions in the exhaust from each of the Generac engines shall not exceed 2.0 grams per brakehorsepower-hour.

(b) The carbon monoxide emissions in the exhaust from each of the Generac engines shall not exceed 4.0 grams per brakehorsepower-hour.

(c) The volatile organic compound (expressed as propane) emissions (excluding formaldehyde) in the exhaust from each of the Generac engines shall not exceed 1.0 grams per brakehorsepower-hour.

Fuel Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Each emergency generator incorporated in Source ID P145 shall be fired on gas (natural or LP) only.

Operation Hours Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

Each emergency generator incorporated in Source ID P145 shall not operate in excess of 500 hours in any 12 month consecutive period.

006 [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?**

[Additional authority for this permit condition is derived from 40 CFR Section 60.4243(d)]

**SECTION D. Source Level Requirements**

The permittee shall not operate each Generac engine in excess of 100 hours in any 12 consecutive month period for non-emergency purposes.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]

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

What are my monitoring, installation, operation, and maintenance requirements?

[Additional authority for this permit condition is derived from 40 CFR Section 63.6625(f)]

The permittee shall install a non-resettable hour meter on the 27 bhp engine.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]

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

What are my monitoring, installation, operation, and maintenance requirements?

[Additional authority for this permit condition is derived from 40 CFR Section 63.6625(j)]

For the 27 bhp engine, the permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to Subpart ZZZZ. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the permittee is not required to change the oil. If any of the limits are exceeded, the permittee shall change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the permittee shall change the oil within 2 business days or before commencing operation, whichever is later. The permittee shall keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

IV. RECORDKEEPING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep accurate and comprehensive records of the number of hours that each emergency generator incorporated in Source ID P145 is operated each month.

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

010 [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?

**SECTION D. Source Level Requirements**

The permittee shall comply with the applicable recordkeeping requirements specified in 40 CFR Section 60.4245(a) for the Generac engines.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What records must I keep?**

For the 27 bhp engine

(a) The permittee shall keep the following records.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv).

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

(3) Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).

(4) Records of all required maintenance performed on the air pollution control and monitoring equipment.

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

(d) The permittee shall keep the records required in Table 6 of Subpart ZZZZ to show continuous compliance with each emission or operating limitation that applies to you.

(e) The permittee shall keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE according to your own maintenance plan.

(f) The permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in §63.6640(f)(2)(ii) or (iii) or §63.6640(f)(4)(ii), the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.

V. REPORTING REQUIREMENTS.**# 012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]****Subpart A - General Provisions****Address.**

The submission of all applicable reports required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, Subpart JJJJ of the Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60.4230 through 60.4248, or required by any other applicable federal section, must be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address and Administrator postal address listed below.

The submission of all other requests, applications submittals and other communications required by Subpart ZZZZ of the

**SECTION D. Source Level Requirements**

National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or Subpart JJJJ of the Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60.4230 through 60.4248, or required by any other applicable federal section, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

and

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

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]

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

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

[Additional authority for this permit condition is derived from 40 CFR Section 63.6640(b)]

For the 27 bhp engine, the permittee shall report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to Subpart ZZZZ that apply to you. These instances are deviations from the emission and operating limitations in Subpart ZZZZ. These deviations must be reported according to the requirements in §63.6650. If you change your catalyst, the permittee shall reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, the permittee shall also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to the engine.

VI. WORK PRACTICE REQUIREMENTS.

014 [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?

The permittee shall operate and maintain the Generac engines so that they achieve the emission standards as required in §60.4233 over the entire life of the engines.

015 [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?

The permittee shall comply with the applicable work practice requirements specified in 40 CFR Section 60.4243(d) for the Generac engines.

016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6603]

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

What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?

[Additional authority for this permit condition is derived from 40 CFR Section 63.6603(a)]

For the 27 bhp engine, the permittee shall change oil and filter every 500 hours of operation or annually, whichever comes first; inspect the spark plugs every 1000 hours of operation or annually, whichever comes first and replace as necessary; and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first and replace as necessary.

**SECTION D. Source Level Requirements****# 017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6605]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my general requirements for complying with this subpart?**

For the 27 bhp engine:

(a) The permittee shall be in compliance with the emission limitations, operating limitations, and other requirements in this subpart that apply to you at all times.

(b) At all times the permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

018 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

[Additional authority for this permit condition is derived from 40 CFR Section 63.6625(e)]

For the 27 bhp engine, the permittee shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

[Additional authority for this permit condition is derived from 40 CFR Section 63.6625(h)]

For the 27 bhp engine, the permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the applicable emission standards at all times other than startup in Tables 1a, 2a, 2c, and 2d to Subpart ZZZZ apply.

020 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?**

[Additional authority for this permit condition is derived from 40 CFR Section 63.6640(f)]

For the 27 bhp engine:

(f) The permittee shall operate the emergency stationary RICE according to the applicable requirements in paragraphs (f)(1) through (4) of this section. In order for the engine to be considered an emergency stationary RICE 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 paragraphs (f)(1) through (4) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (4) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

**SECTION D. Source Level Requirements**

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

(2) You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

(i) Emergency stationary RICE 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 RICE beyond 100 hours per calendar year.

(ii) Emergency stationary RICE 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 §63.14), 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 RICE 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 RICE located at major sources of HAP 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 (f)(2) of this section. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(4) Emergency stationary RICE located at area sources of HAP 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 (f)(2) of this section. Except as provided in paragraphs (f)(4)(i) and (ii) of this section, the 50 hours per 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) Prior to May 3, 2014, the 50 hours per year for non-emergency situations can be used for peak shaving or non-emergency demand response to generate income for a facility, or to otherwise supply power as part of a financial arrangement with another entity if the engine is operated as part of a peak shaving (load management program) with the local distribution system operator and the power is provided only to the facility itself or to support the local distribution system.

(ii) 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 conditions 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,

**SECTION D. Source Level Requirements**

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.

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

(a) Source ID P145 consists of the following natural-gas fired emergency generators:

- (1) 27 brake-horsepower Dayton model 20PSFH-3R1A72A emergency generator for the lights
- (2) 254 brake-horsepower Generac SG070 emergency generator for the computers and phones
- (3) 254 brake-horsepower Generac SG070 emergency generator for the data systems by Building 30
- (4) 374 bhp natural gas-fired Generac model E14.2MSN279A0 emergency generator

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

The Generac emergency generators incorporated in Source ID P145 are subject to Subpart JJJJ of the Standards of Performance for New Stationary Sources, 40 CFR 60.4230 through 60.4248 (Standards of Performance for Stationary Spark Ignition Internal Combustion Engines). The permittee shall comply with all applicable requirements specified in this Subpart.

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

The Generac emergency generators incorporated in Source ID P145 are subject to Subpart ZZZZ of the federal National Emission Standards for Hazardous Air Pollutants for Source Categories, 40 CFR 63.6580 through 63.6675 (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). The permittee shall comply with all applicable requirements specified in this Subpart.

024 [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?**

The permittee shall comply with the applicable compliance demonstration requirements specified in 40 CFR Section 60.4243(b) for the Generac engines.

025 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?**

[Additional authority for this permit condition is derived from 40 CFR Section 63.6640(a)]

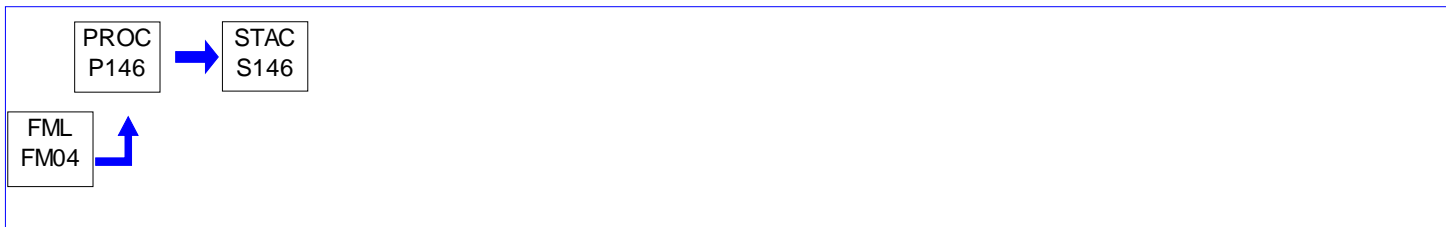
For the 27 bhp engine, the permittee shall demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to Subpart ZZZZ that apply to you according to methods specified in Table 6 to Subpart ZZZZ.

**SECTION D. Source Level Requirements**

Source ID: P146

Source Name: DIESEL FIRE PUMP

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

The concentration of particulate matter in the exhaust of Source ID P146 shall not exceed 0.04 grains per dry standard cubic foot of effluent gas volume.

002 [25 Pa. Code §123.21]

General

The concentration of sulfur oxides, expressed as sulfur dioxide (SO₂), in the exhaust of Source ID P146 shall not exceed 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P146 shall be fired on diesel fuel only with a sulfur content not to exceed 0.5% by weight.

Operation Hours Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

Source ID P146 shall not operate in excess of 500 hours in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**What are my monitoring, installation, operation, and maintenance requirements?**

[Additional authority for this permit condition is derived from 40 CFR Section 63.6625(f)]

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

**SECTION D. Source Level Requirements****# 006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my monitoring, installation, operation, and maintenance requirements?**

[Additional authority for this permit condition is derived from 40 CFR Section 63.6625(i)]

The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to Subpart ZZZZ. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to Subpart ZZZZ. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the permittee is not required to change the oil. If any of the limits are exceeded, the permittee shall change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the permittee shall change the oil within 2 business days or before commencing operation, whichever is later. The permittee shall keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

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

- (a) The permittee shall keep accurate and comprehensive records of the number of hours that Source ID P146 is operated each month.
- (b) All records generated pursuant to this condition shall be retained for a minimum of five years and shall be made available to the Department upon request.

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

- (a) For every shipment of diesel fuel received by the permittee to be used as fuel in Source ID P146, the permittee shall obtain a fuel certification report from the diesel-fuel supplier.
- (1) The fuel certification report shall include:
- (i) The date of delivery,
 - (ii) The name of the supplier, and
 - (iii) The sulfur content, by weight, of the diesel fuel.

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What records must I keep?**

- (a) The permittee shall keep the following records:
- (1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv).
 - (2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.
 - (3) Records of performance tests and performance evaluations as required in §63.10(b)(2)(vii).

**SECTION D. Source Level Requirements**

- (4) Records of all required maintenance performed on the air pollution control and monitoring equipment.
- (5) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
- (d) The permittee shall keep the records required in Table 6 of Subpart ZZZZ to show continuous compliance with each emission or operating limitation that applies to you.
- (e) The permittee shall keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE according to your own maintenance plan.
- (f) The permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in §63.6640(f)(2)(ii) or (iii) or §63.6640(f)(4)(ii), the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.

V. REPORTING REQUIREMENTS.**# 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]****Subpart A - General Provisions****Address.**

The submission of all applicable reports required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address and Administrator postal address listed below.

The submission of all other requests, applications submittals and other communications required by Subpart ZZZZ of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63.6580 through 63.6675, or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

and

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

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

[Additional authority for this permit condition is derived from 40 CFR Section 63.6640(b)]

**SECTION D. Source Level Requirements**

The permittee shall report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to Subpart ZZZZ that apply to you. These instances are deviations from the emission and operating limitations in Subpart ZZZZ. These deviations must be reported according to the requirements in §63.6650. If you change your catalyst, the permittee shall reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, the permittee shall also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to the engine.

VI. WORK PRACTICE REQUIREMENTS.**# 012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6603]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?**

[Additional authority for this permit condition is derived from 40 CFR Section 63.6603(a)]

The permittee shall change oil and filter every 500 hours of operation or annually, whichever comes first; inspect the air cleaner every 1000 hours of operation or annually, whichever comes first and replace as necessary; and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first and replace as necessary.

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6605]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What are my general requirements for complying with this subpart?**

(a) The permittee shall be in compliance with the emission limitations, operating limitations, and other requirements in this subpart that apply to you at all times.

(b) At all times the permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

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

[Additional authority for this permit condition is derived from 40 CFR Section 63.6625(e)]

The permittee shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

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

[Additional authority for this permit condition is derived from 40 CFR Section 63.6625(h)]

The permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a

**SECTION D. Source Level Requirements**

period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the applicable emission standards at all times other than startup in Tables 1a, 2a, 2c, and 2d to Subpart ZZZZ apply.

016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?**

[Additional authority for this permit condition is derived from 40 CFR Section 63.6640(f)]

(f) The permittee shall operate the emergency stationary RICE according to the applicable requirements in paragraphs (f)(1) through (4) of this section. In order for the engine to be considered an emergency stationary RICE 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 paragraphs (f)(1) through (4) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (4) of this section, 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 RICE in emergency situations.

(2) You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

(i) Emergency stationary RICE 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 RICE beyond 100 hours per calendar year.

(ii) Emergency stationary RICE 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 §63.14), 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 RICE 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 RICE located at major sources of HAP 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 (f)(2) of this section. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(4) Emergency stationary RICE located at area sources of HAP 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 (f)(2) of this section. Except as provided in paragraphs (f)(4)(i) and (ii) of this section, the 50 hours per 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) Prior to May 3, 2014, the 50 hours per year for non-emergency situations can be used for peak shaving or non-emergency demand response to generate income for a facility, or to otherwise supply power as part of a financial

**SECTION D. Source Level Requirements**

arrangement with another entity if the engine is operated as part of a peak shaving (load management program) with the local distribution system operator and the power is provided only to the facility itself or to support the local distribution system.

(ii) 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 conditions 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.

VII. ADDITIONAL REQUIREMENTS.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P146 is a 145 brake-horsepower Cummins model NH-220-IF diesel-fired fire pump.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID P146 is subject to Subpart ZZZZ of the federal National Emission Standards for Hazardous Air Pollutants for Source Categories, 40 CFR 63.6580 through 63.6675 (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines). The permittee shall comply with all applicable requirements specified in this Subpart.

019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]

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

[Additional authority for this permit condition is derived from 40 CFR Section 63.6640(a)]

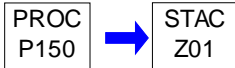
The permittee shall demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to Subpart ZZZZ that apply to you according to methods specified in Table 6 to Subpart ZZZZ.

**SECTION D. Source Level Requirements**

Source ID: P150

Source Name: WASTEWATER TREATMENT PLANT

Source Capacity/Throughput:

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The total combined volatile organic compounds emissions from the two wastewater treatment tanks (East and West) incorporated in Source ID P150 shall not equal or exceed 2.7 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep comprehensive and accurate records of the amount of wastewater treated in Source ID P150 each month, the calculations used to demonstrate compliance with the volatile organic compound emission limitation, and the supporting documentation used to calculate the combined total volatile organic compound emissions from Source ID P150.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Source ID P150 consists of the following wastewater treatment equipment:

(1) one wastewater treatment tank east (T-1060A)

**SECTION D. Source Level Requirements**

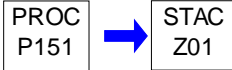
- (2) one wastewater treatment tank west (T-1060B)
- (3) one post equalization basin
- (4) four day tanks

**SECTION D. Source Level Requirements**

Source ID: P151

Source Name: DANTOIN WASTEBOX, LAGOONS, TANK

Source Capacity/Throughput:

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

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

(a) The total volatile organic compounds emissions from the air stripper shall not exceed 60.07 pounds per day and 10.96 tons in any 12-consecutive month period.

(b) The total hazardous air pollutant emissions from the air stripper shall not exceed 50.58 pounds per day and 9.23 tons in any 12-consecutive month period.

II. TESTING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from the Request for Determination dated October 24, 2016 and 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall utilize the DCS control system, probes at various points within the system, and process data of historical parameters to ensure proper operation of the treatment system.

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

[Additional authority for this permit condition is derived from the Request for Determination dated October 24, 2016 and 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall monitor the oxidation reduction potential (ORP) range to ensure it is within the recommended range of +550 to +750 mV. Additionally, the permittee shall set up the automatic caustic pump to either to control a specific pH set point (between 5 and 10) or to run at a ratio of the bisulfite pump speed. All of this information shall be monitored in real-time by the operator via a dashboard display.

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

[Additional authority for this permit condition is derived from the Request for Determination dated October 24, 2016 and 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall perform maintenance on this system, including but not limited to, changing the metering pump hoses approximately every 3 months as well as calibrating and replacing the ORP and pH probes. The calibration and replacement of the ORP and pH probes shall be calibrated and replaced on a schedule determined by the permittee to ensure the ORP and pH probes operate as designed and in the best manner for the system.

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

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

(a) The permittee shall take daily samples to monitor and record the halogen and pH of the composite waste sample for the Hydantoin final waste tank to ensure the final waste tank is maintained at < 50 ppm total active halogen during normal operation.

(b) Total active halogen levels greater than or equal to 50 ppm shall be investigated and resolved to normal operation conditions as soon as safely possible according to standard practices.

(c) The permittee shall keep a logbook of every instance the level is greater than or equal to 50 ppm. This logbook shall include the date and time of each instance as well as the initials of the person observing each instance, the reason(s) for each instance, the action(s) taken to remedy each instance, and the date and time each instance was resolved. These records shall be kept for 5 years and made available to the Department upon request.

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

[Additional authority for this permit condition is derived from the Request for Determination dated October 24, 2016 and 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep comprehensive and accurate records of any alarm or interlock being triggered. These records shall include the date it was triggered, cause of the trigger, corrective action taken to remedy the issue, the date the issued was remedied, and the name of the operator investigating the issue.

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

[Additional authority for this permit condition is derived from the Request for Determination dated October 24, 2016 and 25 Pa. Code Sections 127.1 and 127.12]

(a) The permittee shall keep comprehensive and accurate records of the maintenance performed on the system.

(b) These records shall be kept for 5 years and made available to the Department upon request.

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

(a) The permittee shall keep comprehensive and accurate records of the amount of wastewater treated in Source ID P151 each month, the calculations used to calculate the combined total volatile organic compound and total hazardous air pollutant emissions from each source incorporated into Source ID P151 each month, and the supporting documentation/data used to calculate the combined total volatile organic compounds, total bromoform, and total hazardous air pollutant emissions from Source ID P151 each month. Such data includes, but is not limited to, the wastewater daily flow rate and THM concentrations in the wastewater.

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

V. REPORTING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from the Request for Determination dated October 24, 2016 and 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall utilize the automated dehalogenation chemical treatment system to treat wastewater immediately discharged from the hydantoin process as part of the overall wastewater treatment system.

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

[Additional authority for this permit condition is derived from the Request for Determination dated October 24, 2016 and 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall utilize alarms and interlocks that are triggered when any abnormal operating conditions are detected, and immediately investigate and remediate the cause of the trigger.

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

[Additional authority for this permit condition is derived from the Request for Determination dated October 24, 2016 and 25 Pa. Code Sections 127.1 and 127.12]

The pH alarm shall be triggered when it reaches a pH <1 for more than 30 minutes in pH control mode. The excessive low ORP shall be triggered when it reaches < +500 mV for more than 30 minutes. The excessive high ORP shall be triggered when it reaches > +900 mV for more than 30 minutes. The caustic totalizer alarm shall be triggered if the caustic tank flowmeter measures > 170 gallons during a filling cycle.

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

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

The permittee shall operate the air stripper as specified in the plan approval application as well as according to the manufacturer's specifications.

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

(a) Source ID P151 consists of the following air contaminant sources:

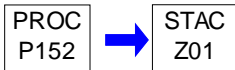
- (1) Dantoin wastebox
- (2) Two lagoons
- (3) tank
- (4) Air stripper

**SECTION D. Source Level Requirements**

Source ID: P152

Source Name: STORAGE TANKS

Source Capacity/Throughput:

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

(a) The total volatile organic compound emissions from each storage tank (except the 15,000-gallon ethylene oxide tank), incorporated in Source ID P152 shall not equal or exceed 2.7 tons in any 12 consecutive month period.

[Additional authority for the following permit conditions are derived from the Request for Determination authorized on May 19, 2021]

(b) The total volatile organic compound emissions from the 15,000-gallon ethylene oxide tank incorporated in Source ID P152 shall not exceed 0.3 tons in any 12 consecutive month period.

(c) The total hazardous air pollutant emissions from the 15,000-gallon ethylene oxide tank incorporated in Source ID P152 shall not exceed 0.3 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.**# 002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.113b]****Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984****Testing and procedures.**

The permittee shall comply with all applicable testing requirements specified in 40 CFR 60.113b for the two 30,000-gallon fuel oil storage tanks incorporated in Source ID P152.

III. MONITORING REQUIREMENTS.**# 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.116b]****Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984****Monitoring of operations.**

The permittee shall comply with all applicable monitoring requirements specified in 40 CFR 60.116b for the two 30,000-gallon storage tanks incorporated in Source ID P152.

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

[Additional authority for the following permit condition (b) is derived from the Request for Determination authorized on May 19, 2021]

(a) The permittee shall keep comprehensive and accurate records of the vapor pressure of the contents of all of the storage tanks, the calculations used to demonstrate compliance with the volatile organic compound emission limitations for Source ID P152, and the supporting documentation used to calculate the volatile organic compound emissions from Source ID P152.

(b) The permittee shall keep comprehensive and accurate records of the total number of release events each month.

(c) All records generated pursuant to this condition shall be retained for a minimum of five years and be made available to

**SECTION D. Source Level Requirements**

the Department upon request.

**# 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.115b]
Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984
Reporting and recordkeeping requirements.**

The permittee shall comply with all applicable recordkeeping requirements specified in 40 CFR 60.115b for the two 30,000-gallon storage tanks incorporated in Source ID P152.

V. REPORTING REQUIREMENTS.

**# 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.115b]
Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984
Reporting and recordkeeping requirements.**

The permittee shall comply with all applicable reporting requirements specified in 40 CFR 60.115b for the two 30,000-gallon storage tanks incorporated in Source ID P152.

**# 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4]
Subpart A - General Provisions
Address.**

The submission of all requests, reports, applications, submittals and other communications required by Subpart Kb of the Federal Standards of Performance for New Stationary Sources, 40 CFR 60.110b through 60.117b shall be submitted to both the U. S. Environmental Protection Agency and the Department. The Environmental Protection Agency copies may be sent to:

Director
Air Protection Division (3AP00)
U. S. EPA, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

and

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

VI. WORK PRACTICE REQUIREMENTS.

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

[Compliance with the requirements specified in this permit condition assures compliance with 25 Pa. Code Section 129.57]

The permittee shall not store anything in any of the storage tanks incorporated in Source ID P152 with a vapor pressure of greater than 1.5 psia under actual storage conditions.

VII. ADDITIONAL REQUIREMENTS.

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

(a) Source ID P152 consists of the following storage tanks:

(1) two #2 fuel oil storage tanks each with a 30,000 gallons capacity

**SECTION D. Source Level Requirements**

- (2) one 19,650 gallon ethylene diamine storage tank
- (3) two diethylene glycol storage tanks each with a 4250 gallon capacity
- (4) one 10,000 gallon formaldehyde storage tank
- (5) one 15,000 gallon ethylene oxide storage tank

**# 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.110b]
Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984
Applicability and designation of affected facility.**

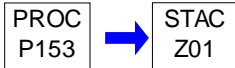
The two 30,000-gallon storage tanks incorporated in Source ID P152 are subject to Subpart Kb of the federal Standards of Performance for New Stationary Sources, 40 CFR 60.110b through 60.117b.

**SECTION D. Source Level Requirements**

Source ID: P153

Source Name: PARTS WASHER

Source Capacity/Throughput:

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The total combined volatile organic compounds emissions from Source ID P153 shall not equal or exceed 2.7 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep comprehensive and accurate records of the amount of cleaning solvent used in Source ID P153 each month and the calculations used to demonstrate compliance with the volatile organic compound emission limitation for Source ID P153.

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

003 [25 Pa. Code §129.63]

Degreasing operations

(a) The permittee shall keep comprehensive and accurate records of the following 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 of Hg at 68 degrees F.

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

V. REPORTING REQUIREMENTS.

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

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 004 [25 Pa. Code §129.63]****Degreasing operations**

Source ID P153 shall have the following:

(1) A freeboard ratio of greater than 0.50.

(2) A permanent conspicuous label summarizing these operating requirements:

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

-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.

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

-Air agitated solvent baths may not be used.

-Spills during solvent transfer and use of cold cleaning machine shall be cleaned up immediately.

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

005 [25 Pa. Code §129.63]**Degreasing operations**

(a) Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining.

(b) During the draining, tipping or rotating, the parts should be positioned so that solvent drains directly back to the cold cleaning machine.

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

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

Source ID P153 is one Safey Kleen remote-reservoir parts washer with a 23 gallon capacity.

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

The vapor pressure of VOC containing solvent shall be less than 1.0 millimeter of mercury (mm Hg) measured at 20 degrees Celsius (68 degrees Fahrenheit).

**SECTION E. Source Group Restrictions.**

Group Name: 123.22 & JJJJJ

Group Description: Sulfur limits and Boiler MACT 031 and 032

Sources included in this group

ID	Name
031	BOILER 1
032	BOILER 2

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

[Additional authority for this permit condition is derived from the 25 Pa. Code Section 123.22(a)(2)(i)]

(i) the permittee shall not use commercial fuel oil in Sources 031 and 032 containing sulfur in excess of the following applicable maximum allowable sulfur content limits:

Maximum Allowable Sulfur Content Expressed as Parts per Million (ppm) by Weight or Percentage by Weight

Grades Commercial Fuel Oil
(Consistent with ASTM D396)

Beginning September 1, 2020

No. 2 and lighter oil 15 ppm (0.0015%)

No. 4 oil 2,500 ppm (0.25%)

No. 5, No. 6 and heavier oil 5,000 ppm (0.5%)

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from the 25 Pa. Code Section 123.22(g)(1), (g)(4), and (g)(5)]

(1) The permittee shall keep comprehensive and accurate records of the following for the oil fired in Sources 031 and 032:

(i) The date of the sale or transfer.

(ii) The name and address of the transferor.

(iii) The name and address of the transferee.

(iv) The volume of commercial fuel oil being sold or transferred.

(v) The identification of the sulfur content of the shipment of commercial fuel oil, determined using the sampling and testing methods specified in subsection (f)(1), expressed as one of the following statements:

(A) For a shipment of No. 2 and lighter commercial fuel oil:

(I) Prior to September 1, 2020—"The sulfur content of this shipment is 500 ppm or below."

(II) On and after September 1, 2020—"The sulfur content of this shipment is 15 ppm or below."

(B) For a shipment of No. 4 commercial fuel oil, "The sulfur content of this shipment is 2,500 ppm or below."

(C) 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.**

(vi) The location of the commercial fuel oil at the time of transfer.

(vii) Except for a transfer to a truck carrier, an owner or operator of a retail outlet or an ultimate consumer, the transferor may substitute the information required under subparagraphs (i)—(vi) with the use of a product code if the following are met:

- (A) The product code includes the information required under subparagraphs (i)—(vi) above.
- (B) The product code is standardized throughout the distribution system in which it is used.
- (C) Each downstream party is given sufficient information to know the full meaning of the product code.

(4)(i) The permittee shall maintain the applicable records required above in electronic or paper format for 2 years.

(ii) The permittee shall provide an electronic or written copy of the applicable record to the Department upon request.

(5) The permittee shall maintain in electronic or paper format the record containing the information listed above.

003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11225]**SUBPART JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources****What are my notification, reporting, and recordkeeping requirements?**

The permittee shall comply with the applicable notification and recordkeeping requirements specified in 40 CFR Sections 63.11225(a), (b), (c)(1), (c)(2), (c)(4), (c)(5), (c)(6), and (d).

V. REPORTING REQUIREMENTS.**# 004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11193]****SUBPART JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources****Am I subject to this subpart?**

The submission of all applicable reports required by Subpart JJJJJJ of the National Emission Standards for Hazardous Air Pollutants for Source Categories, 40 CFR 63.11193 through 63.11237 (National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources), or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and electronically to the Environmental Protection Agency. The electronic reports must be submitted using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the EPA e-mail address and Administrator postal address listed below.

The submission of all other requests, applications submittals and other communications required by Subpart JJJJJJ of the National Emission Standards for Hazardous Air Pollutants for Source Categories, 40 CFR 63.11193 through 63.11237 (National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources), or required by any other applicable section specified in the National Emission Standards for Hazardous Air Pollutants, must be made to both the Department of Environmental Protection and the Environmental Protection Agency. The copies may be sent to:

R3_Air_Apps_and_Notices@epa.gov

and

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

VI. WORK PRACTICE REQUIREMENTS.**# 005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11205]****SUBPART JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources**

**SECTION E. Source Group Restrictions.****What are my general requirements for complying with this subpart?**

(a) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11223]**SUBPART JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources****How do I demonstrate continuous compliance with the work practice and management practice standards?**

(a) For affected sources subject to the work practice standard or the management practices of a tune-up, you must conduct a performance tune-up according to paragraph (b) of this section and keep records as required in §63.11225(c) to demonstrate continuous compliance. You must conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up.

(b) The permittee shall conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in paragraphs (b)(1) through (7) of this section. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up.

(1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection.

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

(3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection.

(4) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject.

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

(6) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (b)(6)(i) through (iii) of this section.

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

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

(iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.

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

**SECTION E. Source Group Restrictions.**

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VII. ADDITIONAL REQUIREMENTS.**# 007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11193]****SUBPART JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources****Am I subject to this subpart?**

Source IDs 031 and 032 are subject to Subpart JJJJJJ of the National Emission Standards for Hazardous Air Pollutants for Source Categories, 40 CFR 63.11193 through 63.11237 (National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources). The permittee shall comply with all applicable requirements specified in this Subpart.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11201]**SUBPART JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources****What standards must I meet?**

(b) You must comply with each work practice standard, emission reduction measure, and management practice specified in Table 2 to Subpart JJJJJJ that applies to your boiler. An energy assessment completed on or after January 1, 2008 that meets or is amended to meet the energy assessment requirements in Table 2 to this subpart satisfies the energy assessment requirement. A facility that operates under an energy management program established through energy management systems compatible with ISO 50001, that includes the affected units, also satisfies the energy assessment requirement.

(d) These standards apply at all times the affected boiler is operating, except during periods of startup and shutdown as defined in §63.11237, during which time you must comply only with Table 2 to Subpart JJJJJJ.



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this State Only facility.



SECTION G. Emission Restriction Summary.

No emission restrictions listed in this section of the permit.



SECTION H. Miscellaneous.

This permit was administratively amended on February 27, 2019 to revise the Responsible Official.

This permit was administratively amended on January 25, 2021, to incorporate the name change and Plan Approval 41-00041A.

The following air contaminant sources are considered by the Department to be insignificant with regards to air contaminant emissions and are determined to be exempt from permitting requirements. However, this determination does not exempt the sources from compliance with all applicable State and Federal regulation and all applicable air quality regulations specified in 25 Pa. Code Chapters 121-145:

- (1) one 0.69 million Btu per hour Fulton model FB-015-F natural-gas fired boiler identified as Steam boiler Research
- (2) one 0.25 million Btu per hour Hurst model S4-x-60-100W natural-gas fired boiler identified as Hotwater boiler Research
- (3) two natural-gas fired heaters (make and model unknown) each rated at 2.19 million Btu per hour located in the warehouse.



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