



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

STATE ONLY SYNTHETIC MINOR OPERATING PERMIT

Issue Date: August 4, 2023

Effective Date: August 4, 2023

Expiration Date: August 3, 2028

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: 46-00022

Synthetic Minor

Federal Tax Id - Plant Code: 23-0960890-1

Owner Information

Name: ARKEMA INC
Mailing Address: 900 1ST AVE
KING OF PRUSSIA, PA 19406-1308

Plant Information

Plant: ARKEMA INC/KING OF PRUSSIA
Location: 46 Montgomery County 46955 Upper Merion Township
SIC Code: 8731 Services - Commercial Physical Research

Responsible Official

Name: WILLIAM GARES
Title: MANAGER OF HEALTH, ENV
Phone: (610) 878 - 6729 Email: bill.gares@arkema.com

Permit Contact Person

Name: PATRICK CORNELL
Title:
Phone: (610) 878 - 6510 Email: patrick.cornell@arkema.com

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

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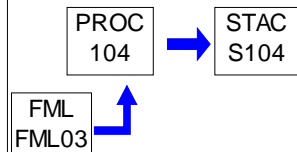
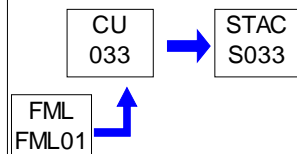
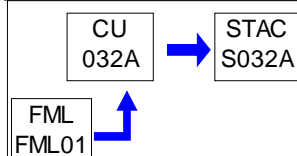
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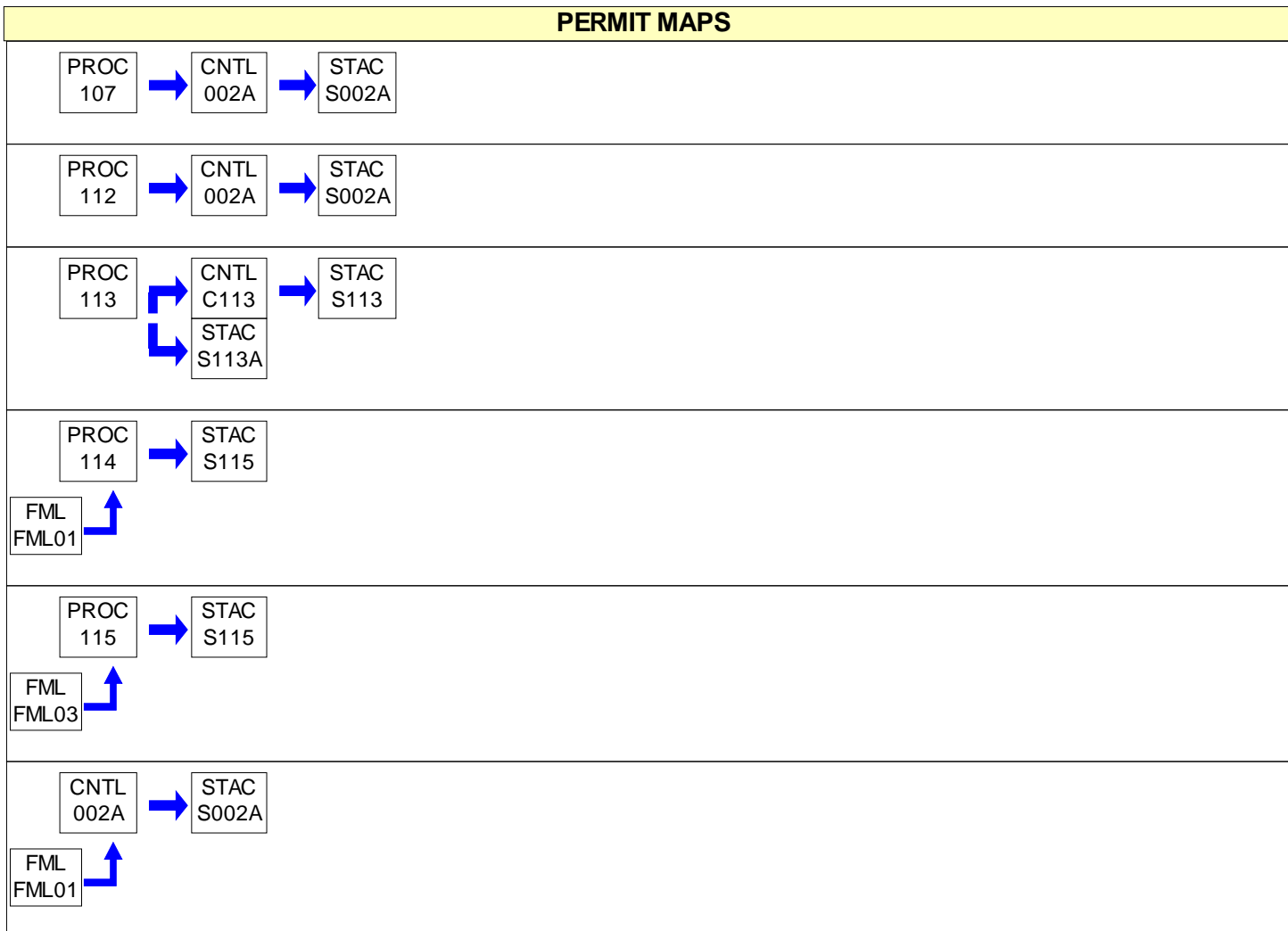
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
032A	BOILER 2A	20.000 MMBTU/HR	
		20.000 MCF/HR	Natural Gas
033	BOILER 3	25.100 MMBTU/HR	
		20.100 MCF/HR	Natural Gas
104	BLDG 1 EMERGENCY GENERATOR	7.000 Gal/HR	Diesel Fuel
107	EMULSION POLYMERIZATION PILOT PLANT	15.000 Lbs/HR	EMULSIONS
112	PMMA MICRO PILOT PLANT	40.000 Lbs/HR	ACRYLIC POLYMERS
113	KYNAR PILOT PLANT	N/A	KYNAR
114	BLDG 3 EMERGENCY GENERATOR	0.146 MMBTU/HR	
		146.000 CF/HR	Natural Gas
115	BLDG 9 EMERGENCY GENERATOR	0.206 MMBTU/HR	
		1.500 Gal/HR	Diesel Fuel
002A	THERMAL OXIDIZER NO. 3A	1,000.000 CF/HR	Natural Gas
C113	KYNAR DUST COLLECTOR		
FML01	NATURAL GAS		
FML03	NO. 2 FUEL OIL		
S002A	THERMAL OXIDIZER NO. 3A STACK		
S032A	BOILER 2A STACK		
S033	BOILER 3 STACK		
S104	BLDG 1 EMER GEN STACK		
S113	KYNAR DUST COLLECTOR STACK		
S113A	KYNAR PILOT PLANT FUGITIVES		
S115	BLDG 9 EMERGENCY GENERATOR STACK		

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

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

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

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

- (a) construction or demolition of buildings or structures;
- (b) grading, paving and maintenance of roads and streets;
- (c) use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets;
- (d) clearing of land;
- (e) stockpiling of materials;
- (f) open burning operations, as specified in 25 Pa. Code § 129.14;
- (g) N/A
- (h) N/A
- (i) sources and classes of sources other than those identified in (a)-(h), above, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (1) the emissions are of minor significance with respect to causing air pollution; and
 - (2) the emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

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

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

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

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

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

A person may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

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

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

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

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

**SECTION C. Site Level Requirements****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

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

The permittee shall not exceed 16.41 tons of NO_x emissions from the Facility per year on a 12-month rolling aggregate.

008 [25 Pa. Code §129.14]**Open burning operations**

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

- (a) a fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer;
- (b) any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department;
- (c) a fire set for the prevention and control of disease or pests, when approved by the Department;
- (d) a fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation;
- (e) a fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of the structure;
- (f) a fire set solely for recreational or ceremonial purposes; or
- (g) a fire set solely for cooking food.

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

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

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

III. MONITORING REQUIREMENTS.**# 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.

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

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

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

**SECTION C. Site Level Requirements**

- (b) Objectionable odors, fugitive particulate emissions, and visible emissions that are caused or may be caused by operations at the site shall:
- (1) be investigated;
 - (2) be reported to the facility management, or individual(s) designated by the permittee;
 - (3) have appropriate corrective action taken (for emissions that originate on-site); and
 - (4) be recorded in a permanent written log.
- (c) After six (6) months of daily monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the monitoring frequency to weekly.
- (d) After six (6) months of weekly monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the frequency of monitoring to monthly.
- (e) The Department reserves the right to change the above monitoring requirements at any time, based on but not limited to: the review of the compliance certification (if applicable), complaints, monitoring results, and/or Department findings.

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

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

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

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

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

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

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

On a monthly basis, the permittee shall compile and record the total 12-month rolling sum emissions of nitrogen oxide (NOx) from all sources at this facility to demonstrate compliance with the facility-wide limit on NOx emissions in this permit.

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

(a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department at 484-250-5920. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

**SECTION C. Site Level Requirements**

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

(c) The report shall describe the following:

- (1) Name, permit or authorization number, and location of the facility;
- (2) Nature and cause of the malfunction, emergency or incident;
- (3) Date and time when the malfunction, emergency or incident was first observed;
- (4) Expected duration of excess emissions;
- (5) Estimated rate of emissions; and
- (6) Corrective actions or preventative measures taken.

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

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

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

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

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

[Additional authority for this permit condition is also derived from 40 CFR Part 68.]

(a). If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release [25 Pa. Code § 127.441(d) and 40 CFR Part 68] program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

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

- (1). The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:
 - (i). Three years after the date on which a regulated substance is first listed under 40 CFR § 68.130; or,
 - (ii). The date on which a regulated substance is first present above a threshold quantity in a process.
- (2). The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.
- (3). The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c). As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means

**SECTION C. Site Level Requirements**

any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

(d). If this facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:
 (1). Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,

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

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

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

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

(2). The permittee fails to submit a compliance schedule or include a statement in an annual Compliance Certification submittal for the previous year indicating compliance with the requirements of the terms and conditions of this permit, and the requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68. The certification shall include:

(i). The identification of each term or condition of the permit that is the basis of the certification.

(ii). The compliance status.

(iii). The methods used for determining the compliance status of the source, currently and over the reporting period.

(iv). Whether compliance was continuous or intermittent.

(g). The compliance certification should be postmarked or hand-delivered within thirty days of each anniversary date of the date of issuance of this permit.

VI. WORK PRACTICE REQUIREMENTS.**# 017 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

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

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

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

(c) Paving and maintenance of roadways.

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

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

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



SECTION C. Site Level Requirements

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee may not modify any air contaminant system identified in this permit, prior to obtaining Department approval, except those modifications authorized by Condition #013(g), of Section B, of this permit.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

VII. ADDITIONAL REQUIREMENTS.

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

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**

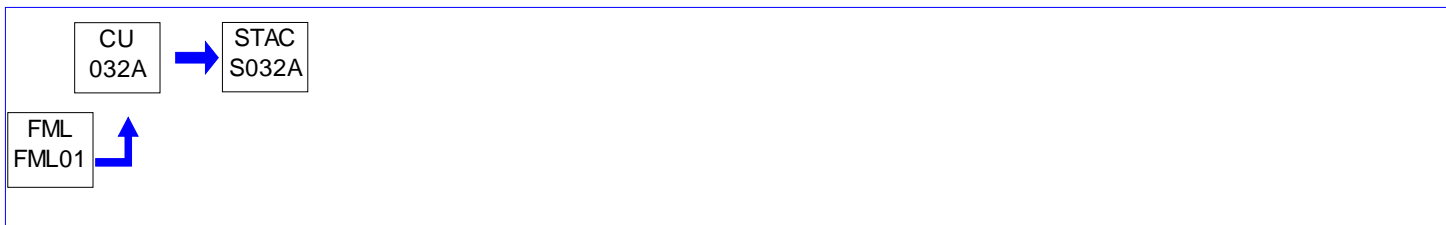
Source ID: 032A

Source Name: BOILER 2A

Source Capacity/Throughput: 20.000 MMBTU/HR

20.000 MCF/HR Natural Gas

Conditions for this source occur in the following groups: BOILERS

**I. RESTRICTIONS.**

No additional 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).

II. TESTING REQUIREMENTS.

No additional testing 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).

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.

No additional record keeping 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).

V. REPORTING REQUIREMENTS.

No additional reporting 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).

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

Source ID No. 032A is a Clayton Industries, Model No. SEOG-604-2.5-FGR boiler rated at 20.0 MMBtu/hr, with low NOx burners and flue-gas recirculation.

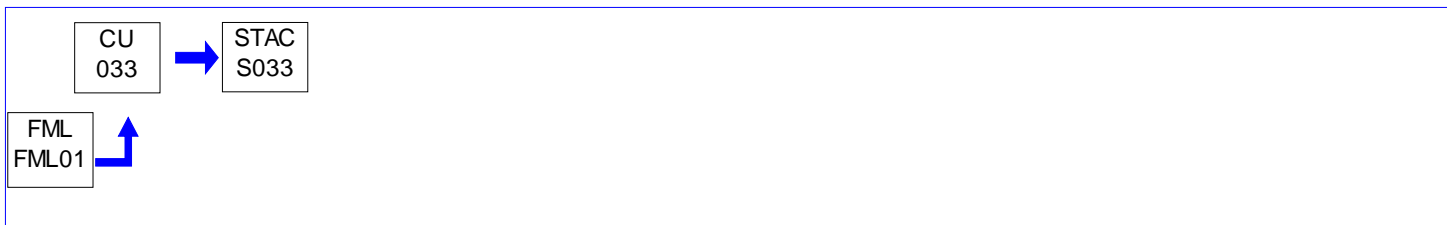
**SECTION D. Source Level Requirements**

Source ID: 033

Source Name: BOILER 3

Source Capacity/Throughput: 25.100 MMBTU/HR
20.100 MCF/HR Natural Gas

Conditions for this source occur in the following groups: BOILERS

**I. RESTRICTIONS.**

No additional 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).

II. TESTING REQUIREMENTS.

No additional testing 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).

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.

No additional record keeping 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).

V. REPORTING REQUIREMENTS.

No additional reporting 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).

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

This source consists of a Cleaver Brooks, CBEX Elite-700-600-200ST, natural gas-fired boiler, rated at 25.106 MMBtu/hr, with low NOx burners.

**SECTION D. Source Level Requirements**

Source ID: 104

Source Name: BLDG 1 EMERGENCY GENERATOR

Source Capacity/Throughput:

7.000 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: EXISTING EMER GEN

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

001 [25 Pa. Code §123.21]

General

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

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall limit the emissions of nitrogen oxides from this emergency generator to 0.83 tons per 12-month rolling period.

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The sulfur content of the fuel used in this source shall not exceed 0.2 percent by weight.

[Compliance with this condition also demonstrates compliance with the applicable requirements of 25 Pa. Code § 123.21.]

Operation Hours Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The total operating hours of this generator shall not exceed 400 hours per year on a 12-month rolling aggregate.

II. TESTING REQUIREMENTS.

005 [25 Pa. Code §139.16]

Sulfur in fuel oil.

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

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

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

**SECTION D. Source Level Requirements**

(15).

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

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

III. MONITORING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor this emergency generator on a monthly basis for the following when this source is in operation:

- (a). The power output of the emergency generator, or the fuel usage in this emergency generator.
- (b). The starting and ending time and date the emergency generator is run.

IV. RECORDKEEPING REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The permittee shall keep the following records on a monthly basis for this emergency generator when this source is in operation:

- (1). The fuel usage in this emergency generator.
- (2). The starting and ending time and date the emergency generator is run.

(b). The permittee shall calculate and record the total amount of NO_x and the operating hours for this emergency generator on a monthly basis and on a 12-month rolling basis.

(c). The permittee may demonstrate compliance with the limits of 25 Pa. Code § 123.21 with a one time calculation that shows the emissions of sulfur dioxide will not exceed the limits in the permit. Any calculations made to demonstrate compliance with the limits of 25 Pa. Code § 123.21 shall be kept on file for the life of this source 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) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

VII. ADDITIONAL REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

**SECTION D. Source Level Requirements**

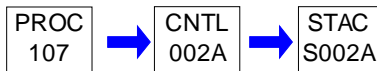
This source consists of a 100 kW (134.10 HP), diesel-fired emergency generator manufactured by Electric Machinery Manufacturing Co. with Cummins Motor, Model No. BRKT, EM AMP-PAK, and installed in 1962.

**SECTION D. Source Level Requirements**

Source ID: 107

Source Name: EMULSION POLYMERIZATION PILOT PLANT

Source Capacity/Throughput: 15.000 Lbs/HR EMULSIONS

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

The permittee shall not operate the Emulsion Polymerization Plant in excess of 5000 hours per year on a 12-month rolling basis.

II. TESTING REQUIREMENTS.

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

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

(a). The permittee shall monitor the number of hours that this source is in operation on a monthly basis.

(b). The permittee shall monitor monthly the following for this source:

- (1). The amount of each VOC and HAP containing material delivered to the facility for this source.
- (2). The amount of VOC and HAP containing waste material that is sent out of the facility for this source.
- (3). The type of activities that are performed by this source on a monthly basis.
- (4). The emission factors that are used for each type of activity that is performed by this source.

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

(a). The permittee shall record the number of hours that this source is in operation on a monthly and a 12-month rolling sum basis.

(b). The permittee shall record the following for this source on a monthly and a 12-month rolling sum basis:

- (1). The amount of each VOC and HAP containing material delivered to the facility for this source.
- (2). The amount of VOC and HAP containing waste material that is sent out of the facility for this source.
- (3). The type of activities that are performed by this source on a monthly basis.
- (4). The emission factors that are used for each type of activity that is performed by this source.

**SECTION D. Source Level Requirements**

(d). The permittee shall calculate and record the VOC and HAP emissions from this source on a monthly and a 12-month rolling basis using company derived emission factors. The results of the 12-month rolling calculation shall be validated with the data collected from inventory records of deliveries and waste.

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

(a). Within 30 days past the end of each calendar quarter, the permittee shall submit a report to the Department listing the types of activities and the emission factors that are proposed for the activities that are to be performed under this source, and describing changes to existing activities that result in a change of emission factors, changes in the emission factors due to validation from comparisons to inventory data, or new activities that are being proposed. The report shall include at least the following information:

- (1). The type of activity performed.
- (2). A detailed derivation of the emission factor to be used in each activity performed.

(b). If no changes have occurred during the calendar quarter, the permittee shall include a statement in the report required in paragraph (a) above that there were no changes in activities performed in this source and no changes in the emission factors derived for this source.

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

The Emulsion Polymerization Pilot Plant Process shall only be operated when the control device (Thermal Oxidizer No. 3, Source ID 002) is in operation.

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

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

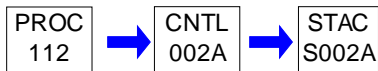
Source ID: 112

Source Name: PMMA MICRO PILOT PLANT

Source Capacity/Throughput:

40.000 Lbs/HR

ACRYLIC POLYMERS

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not operate this source in excess of 2400 hours per year on a 12-month rolling basis.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The permittee shall monitor the number of hours that this source is in operation on a monthly basis.

(b). The permittee shall monitor monthly the following for this source:

- (1). The amount of each VOC and HAP containing material delivered to the facility for this source.
- (2). The amount of VOC and HAP containing waste material that is sent out of the facility for this source.
- (3). The type of activities that are performed by this source on a monthly basis.
- (4). The emission factors that are used for each type of activity that is performed by this source.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The permittee shall record the number of hours that this source is in operation on a monthly and on a 12-month rolling sum basis.

(b). The permittee shall record the following for this source on a monthly and on a 12-month rolling sum basis:

- (1). The amount of each VOC and HAP containing material delivered to the facility for this source.
- (2). The amount of VOC and HAP containing waste material that is sent out of the facility for this source.
- (3). The type of activities that are performed by this source on a monthly basis.
- (4). The emission factors that are used for each type of activity that is performed by this source.
- (d). The permittee shall calculate and record the VOC and HAP emissions from this source on a monthly and a 12-month

**SECTION D. Source Level Requirements**

rolling basis using company derived emission factors. The results of the 12-month rolling calculation shall be validated with the data collected from inventory records of deliveries and waste.

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

(a). Within 30 days past the end of each calendar quarter, the permittee shall submit a report to the Department listing the types of activities and the emission factors that are proposed for the activities that are to be performed under this source, and describing changes to existing activities that result in a change of emission factors, changes in the emission factors due to validation from comparisons to inventory data, or new activities that are being proposed. The report shall include at least the following information:

- (1). The type of activity performed.
- (2). A detailed derivation of the emission factor to be used in each activity performed.

(b). If no changes have occurred during the calendar quarter, the permittee shall include a statement in the report required in paragraph (a) above that there were no changes in activities performed in this source and no changes in the emission factors derived for this source.

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

The PMMA Micro Pilot Plant Process shall only be operated when the control device (Thermal Oxidizer No. 3, Source ID 002) is in operation.

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

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

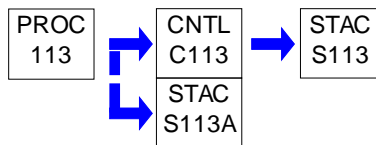
Source ID: 113

Source Name: KYNAR PILOT PLANT

Source Capacity/Throughput:

N/A

KYNAR

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

No person may permit the emission into the outdoor atmosphere of particulate matter in excess of 0.02 grains per dry standard cubic foot.

[Compliance with the condition above also demonstrates compliance with the applicable requirements of 25 Pa. Code § 123.13(c)(1)(i) and Best Available Technology (BAT).]

Operation Hours Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not operate the Kynar Pilot Plant in excess of 3,000 hours per year on a 12-month rolling basis.

Control Device Efficiency Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain the pressure drop across the dust collector associated with this source between 0.1 inches water gauge and 5 inches water gauge when this source is in operation.

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.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a). The permittee shall monitor the number of hours that this source is in operation on a monthly basis.
- (b). The permittee shall monitor the following for this source on a monthly basis:
 - (1). The amount of each raw material reacted in this pilot plant.
 - (2). The amount of Kynar produced by this pilot plant.

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

- (a). The permittee shall monitor the air flow rate through the dust collector associated with this source on a daily basis when this source is in operation.
- (b). The permittee shall monitor the pressure drop across the dust collector associated with this source on a daily basis when this source is in operation.

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

- (a). The permittee shall keep records of the number of hours that this source is in operation on a monthly and on a 12-month rolling sum basis.
- (b). The permittee shall keep records of the following for this source on a monthly basis:
- (1). The amount of each raw material reacted in this pilot plant.
 - (2). The amount of Kynar produced by this pilot plant.
- (c). The permittee shall calculate and record the amount of VOC and particulate matter that is emitted by this source on a monthly and a 12-month rolling sum basis.

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

- (a). The permittee shall keep records of the air flow rate through the dust collector associated with this source on a daily basis when this source is in operation.
- (b). The permittee shall keep records of the pressure drop across the dust collector associated with this source on a daily basis when this source is in operation.

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

The permittee shall keep on hand a sufficient quantity of spare cartridges for this source, in order to replace any filters requiring replacement due to deterioration of the filters from routine operation of this dust collector and the source associated with this dust collector.

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

- (a). The permittee shall maintain equipment (a rotameter or equivalent, as approved by the Department) so that the air flow through the dust collector can be measured.
- (b). The permittee shall maintain equipment (a differential manometer or equivalent, as approved by the Department) so that the pressure drop across the dust collector can be measured.

**SECTION D. Source Level Requirements**

(c). The equipment required in paragraphs (a) and (b) above shall be located in an area available to the Department so that Department personnel may take air flow and pressure drop measurements upon request.

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

Source ID: 114

Source Name: BLDG 3 EMERGENCY GENERATOR

Source Capacity/Throughput: 0.146 MMBTU/HR

146.000 CF/HR

Natural Gas

Conditions for this source occur in the following groups: EXISTING EMER GEN

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

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission into the outdoor atmosphere of particulate matter from this source in excess of 0.04 gr/dscf, pursuant to 25 Pa. Code § 123.13 (c)(1)(i).

002 [25 Pa. Code §123.21]

General

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

Operation Hours Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The total operating hours of this generator shall not exceed 400 hours per year on a 12-month rolling aggregate.

II. TESTING REQUIREMENTS.

No additional testing 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).

III. MONITORING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following on a monthly basis for this emergency generator when this source is in operation:

- The total amount of fuel used in the emergency generator.
- The starting and ending time and date the emergency generator is run.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a). The permittee shall keep the following records for this emergency generator on a monthly basis when this source is in operation:

**SECTION D. Source Level Requirements**

- (1). The total amount of fuel consumed by the emergency generator.
 - (2). The starting and ending time and date the emergency generator is run.
- (b). The permittee shall calculate and record the total amount of NO_x emitted and the operating hours for this emergency generator on a monthly basis and on a 12-month rolling basis.
- (c). The permittee may demonstrate compliance with the limits of 25 Pa. Code §§ 123.13(c)(1)(i) and 123.21 with a one time calculation that shows the emissions of particulate matter and sulfur dioxide will not exceed the limits in the permit. Any calculations made to demonstrate compliance with the limits of 25 Pa. Code §§ 123.13(c)(1)(i) and 123.21 shall be kept on file for the life of this source 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) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source consists of a 7.0 kW (9.39 HP), natural gas-fired engine manufactured by Generac, Model No. 004389-3.

**SECTION D. Source Level Requirements**

Source ID: 115

Source Name: BLDG 9 EMERGENCY GENERATOR

Source Capacity/Throughput:

0.206 MMBTU/HR

1.500 Gal/HR

Diesel Fuel

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

[Additional authority for this permit condition was also derived from 40 C.F.R. §§ 60.4202(a)(1), 60.4205(b), and 60.4211(c).]

(a). The permittee must comply with the emission standards for new nonroad CI engines in 40 § 60.4202, for all pollutants, for the same model year and maximum engine power by purchasing an engine certified to the emission standards in 40 C.F.R. § 60.4205(b) for their 2007 model year and later emergency stationary CI ICE.

(b). The certification of emission standards for non-road CI engines from 40 C.F.R. § 60.4202 is derived from 40 C.F.R. §§ 89.112 and 89.113. The restrictions for certification are as follows:

(1). Exhaust emission from nonroad engines to which this subpart is applicable shall not exceed the following for CI engines in the same model year and maximum engine power:

- (i) 7.5 grams NMHC + NO_x per kW-hr,
- (ii) 6.6 grams CO per kW-hr, and
- (iii) 0.80 grams PM per kW-hr

(2). Exhaust opacity from compression-ignition nonroad engines for which this subpart is applicable must not exceed:

- (i). 20 percent during the acceleration mode;
- (ii). 15 percent during the lugging mode; and
- (iii). 50 percent during the peaks in either the acceleration or lugging modes.

002 [25 Pa. Code §123.21]**General**

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

Fuel Restriction(s).**# 003 [25 Pa. Code §122.3]****Adoption of standards.**

[Additional authority for this permit condition was also derived from 40 C.F.R. §§ 60.4207(b) and 80.510.]

The permittee shall purchase diesel fuel that meets the requirements of 40 C.F.R. § 80.510(b) for nonroad diesel fuel. The fuel standards (per gallon) are as follows:

**SECTION D. Source Level Requirements**

- (a). Sulfur content shall be limited to 15 ppm maximum.
- (b). Cetane index or aromatic content, as follows:
 - (1). A minimum cetane index of 40; or
 - (2). A maximum aromatic content of 35 volume percent.

[Compliance with the sulfur content limit in this condition also demonstrates compliance with the 500 ppmv limit for sulfur dioxide emissions from 25 Pa. Code § 123.21.]

Operation Hours Restriction(s).**# 004 [25 Pa. Code §122.3]****Adoption of standards.**

[Additional authority for this permit condition was also derived from 40 C.F.R. § 60.4211(f).]

- (a) The permittee shall operate the emergency stationary R.I.C.E. according to the requirements in the most recent version of 40 C.F.R. Section 60.4211(f).
- (b) If the permittee does not operate the engine according to the requirements of 40 C.F.R. Section 60.4211(f), the engine will not be considered an emergency engine under 40 C.F.R. Part 60 Subpart IIII and must meet all requirements for non-emergency engines.

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

The total operating hours of this generator shall not exceed 400 hours per year on a 12-month rolling aggregate.

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

The permittee shall monitor the following for this source each time this source is in operation:

- (a). The date and time of startup, and shutdown.
- (b). The reason that this source is in operation (emergency, non-emergency, or maintenance).

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

(a). The permittee shall keep records of the following each time this source is in operation:

- (1). The date and time of startup and shutdown.
- (2). The reason that the source is in operation (emergency, non-emergency, or maintenance).

**SECTION D. Source Level Requirements**

(b). The permittee shall calculate and record the hours of operation for emergencies, non-emergencies, and maintenance for this source on a monthly and 12-month rolling basis.

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

The permittee shall keep records of all inspections and/or maintenance that is performed on this source. If a problem is discovered, the records shall include the date and time the problem was found, a description of the problem, and a summary of the corrective actions taken.

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.**# 009 [25 Pa. Code §122.3]****Adoption of standards.**

[Additional authority for this permit condition was also derived from 40 C.F.R. §§ 60.4206 and 60.4211(a).]

(a). The permittee shall comply with the emission standards specified in 40 C.F.R. Part 60, Subpart III. The permittee shall do the following:

- (1). Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;
- (2). Change only those emission-related settings that are permitted by the manufacturer; and
- (3). Meet the requirements of 40 C.F.R. Part 89 as they apply to the permittee.

(b). The permittee shall operate and maintain stationary CI ICE that achieve the emission standards as required in Condition #001 [40 C.F.R. § 60.4205] in accordance with the manufacturer's written instructions or procedures developed by the permittee and approved by the engine manufacturer, over the entire life of the engine.

010 [25 Pa. Code §122.3]**Adoption of standards.**

[Additional authority for this permit condition was also derived from 40 C.F.R. § 60.4209(a).]

The permittee shall equip this stationary CI engine with a non-resettable hour meter prior to startup of the engine.

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

The permittee shall perform inspections and/or maintenance on this source in accordance with manufacturer's specifications or company derived standard operating procedures approved by the manufacturer.

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

This source consists of a 15 kW (20.12 HP), diesel-fired emergency generator manufactured by Cummins, Model No. D1703.

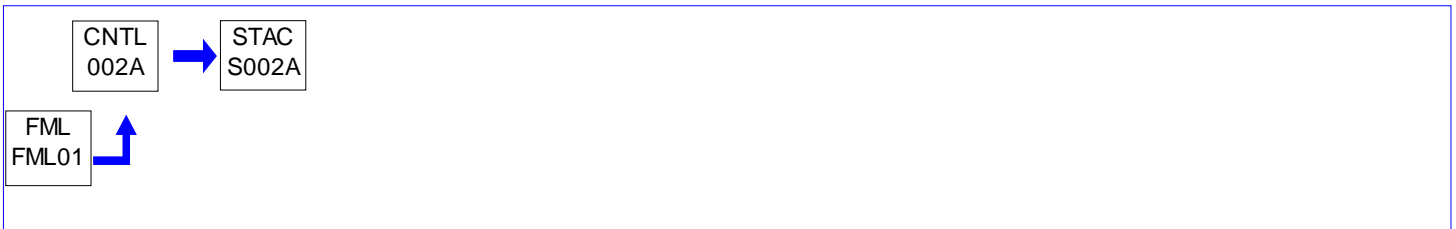
**SECTION D. Source Level Requirements**

Source ID: 002A

Source Name: THERMAL OXIDIZER NO. 3A

Source Capacity/Throughput: 1,000.000 CF/HR

Natural Gas

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

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

002 [25 Pa. Code §123.21]**General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from each thermal oxidizer listed under this source in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

The emissions of nitrogen oxides from this thermal oxidizer shall not exceed 0.61 tons per 12-month rolling aggregate.

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

The permittee shall monitor the temperature of the combustion chamber in this source on a monthly basis when this source is in operation.

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

Using a Department approved method, the permittee shall monitor the following information for the thermal oxidizers listed under this source on a monthly basis:

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

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

The permittee shall record the temperature of the combustion chamber in this source on a monthly basis when this source is in operation.

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

The permittee shall keep records of all inspections and/or maintenance that is performed on this source, any deficiencies, and any corrective action taken.

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

(a). Using a Department approved method, the permittee shall keep records of the following information for the thermal oxidizers listed under this source on a monthly basis:

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

(b). The permittee shall calculate and record the total amount of NO_x, PM, and SO_x emitted from this source and the total number of hours of operation on a 12-month rolling basis.

(c). The permittee shall calculate emissions of PM and SO_x in a manner that demonstrates compliance with the applicable limits of this permit. If it can be determined that this source will not exceed the requirements of 25 Pa. Code §§ 123.13(c)(1)(i) and 123.21, then a one-time calculation may be used to demonstrate that this source is continuously in compliance with the limits of 25 Pa. Code §§ 123.13(c)(1)(i) and 123.21, and the calculations shall be kept on file for the life of this source.

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

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

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

The permittee shall inspect and/or maintain this source on at least a monthly basis when this source is in operation.

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

(a). The emissions from the thermal oxidizer shall be incinerated at a minimum of 1,400 degrees F for at least 0.3 seconds prior to their emissions into the outdoor atmosphere.

(b). The permittee shall not start operating the sources associated with this thermal oxidizer before the combustion

**SECTION D. Source Level Requirements**

chamber temperature of the thermal oxidizer reaches 1,400 degrees F.

(c). The thermal oxidizer shall be in operation with the combustion chamber temperature maintained at 1,400 degrees F for at least 30 minutes after the processes performed by the sources connected to this thermal oxidizer(s) end.

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION E. Source Group Restrictions.**

Group Name: BOILERS

Group Description: Shared boiler conditions

Sources included in this group

ID	Name
032A	BOILER 2A
033	BOILER 3

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

A person may not permit the emission into the outdoor atmosphere of particulate matter from a combustion unit in excess of 0.4 pounds per million Btu of heat input, pursuant to 25 Pa. Code § 123.11(a)(1).

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

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from any combustion unit, in the Southeast Air Basin, in excess of 1.0 pounds per million Btu of heat input, pursuant to 25 Pa. Code § 123.22(e)(1) when burning natural gas.

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

The permittee shall limit the combined emissions of nitrogen oxides from Source ID Nos. 032A and 033 to 8.11 tons, based on a 12-month rolling sum.

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

The permittee shall limit the combined natural gas fuel usage for Boiler No. 2A and Boiler No. 3 (Source ID Nos. 032A and 033) to 386 million cubic feet per year, based on a 12-month rolling sum.

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.**

The permittee shall monitor the amount of fuel used and hours of operation on a monthly basis.

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

(a) The permittee shall maintain records of the amount of fuel used and hours of operation that this source is in operation on a monthly, and 12-month rolling basis.

(b) The permittee shall calculate and record the total amount of NO_x, SO_x, CO, PM, and VOC emitted from this boiler on a monthly, and a 12-month rolling basis.

**SECTION E. Source Group Restrictions.**

(c) The permittee shall record the combined natural gas fuel usage for Boiler No. 2A and Boiler No. 3 (Source ID Nos. 032A and 033) on a monthly, and a 12-month rolling basis.

(d) The permittee shall calculate and record the total amount of combined NO_x for Boiler No. 2A and Boiler No. 3 (Source ID Nos. 032A and 033) on a monthly, and a 12-month rolling basis.

[Compliance with the requirements in this condition also ensures compliance with the recordkeeping requirement of 40 CFR § 60.48c(g)(2).]

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

The permittee shall maintain records of tune-ups, repairs, parts replacements, and other maintenance performed on this boiler in accordance with manufacturer's specifications.

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

The permittee shall keep all records on file for a period of five (5) years, and the records 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.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall perform tune-ups, repairs, parts replacements, and other maintenance in accordance with manufacturer's specifications. The permittee will maintain a copy of the manufacturer's specifications for the operation and maintenance of this boiler and any associated air pollution control devices.

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

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION E. Source Group Restrictions.**

Group Name: EXISTING EMER GEN

Group Description: Emergency generators installed prior to June 12, 2006

Sources included in this group

ID	Name
104	BLDG 1 EMERGENCY GENERATOR
114	BLDG 3 EMERGENCY GENERATOR

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.**

The permittee shall keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the permittee operated and maintained the stationary RICE according to manufacturer's specifications or to the permittee's own maintenance plan.

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

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

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.**

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

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

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

**SECTION E. Source Group Restrictions.****VII. ADDITIONAL REQUIREMENTS.**

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



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this State Only facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Descriptor		
032A	BOILER 2A		
Emission Limit		Pollutant	
8.110	Tons/Yr	Combined limit for Sources 032A & 033, 12-month rolling sum	NOX
1.000	Lbs/MMBTU		SO2
0.400	Lbs/MMBTU		TSP
033	BOILER 3		
Emission Limit		Pollutant	
8.110	Tons/Yr	Combined limit for Sources 032A & 033, 12-month rolling sum	NOX
1.000	Lbs/MMBTU		SO2
0.400	Lbs/MMBTU		TSP
104	BLDG 1 EMERGENCY GENERATOR		
Emission Limit		Pollutant	
0.830	Tons/Yr	12-month rolling sum	NOX
500.000	PPMV	dry standard conditions	TSP
113	KYNAR PILOT PLANT		
Emission Limit		Pollutant	
0.020	gr/DRY FT3		TSP
114	BLDG 3 EMERGENCY GENERATOR		
Emission Limit		Pollutant	
500.000	PPMV	dry standard conditions	SOX
0.040	gr/DRY FT3		TSP
115	BLDG 9 EMERGENCY GENERATOR		
Emission Limit		Pollutant	
6.600	GRAMS/KW-Hr		CO
7.500	GRAMS/KW-Hr		NOx+NMHC
500.000	PPMV	dry basis	SO2
0.800	GRAMS/KW-Hr		TSP
002A	THERMAL OXIDIZER NO. 3A		
Emission Limit		Pollutant	
0.610	Tons/Yr	on a 12-month rolling sum basis	NOX
500.000	PPMV	dry standard conditions	SOX
0.040	gr/DRY FT3		TSP

Site Emission Restriction Summary

Emission Limit			Pollutant
16.410	Tons/Yr	12-month rolling sum	NOX



SECTION G. Emission Restriction Summary.

**SECTION H. Miscellaneous.**

#001. The Department has determined that the emissions from the following activities, excluding those indicated as site level requirements, in Section C, of this permit, do not require additional limitations, monitoring, or recordkeeping:

- (a). A 275-gallon aboveground storage tank for diesel fuel.
- (b). Large Carbon Bed.
- (c). Small Carbon Bed.
- (d). Small Kynar Spray Dryer.
- (e). D400 Spray Dryer.
- (f). Various Laboratory Operations in Buildings 1, 3, 6, 9, 12, and 14.
- (g). Various extruders, mixers, blenders, injection molders, wire/cable coating lines, film lines, sheet lines, polymer dryers, mold presses, and other equipment associated with polymer additives research and polymer research.
- (h). Wastewater tanks (3 total) and holding basins.
- (i). Wastewater Dissolved Air Floatation Unit.
- (j). Three Climate Control Cooling Towers for Buildings 4, 8, and 9.
- (k). Cooling tower for the Building 3 Pilot Plant.
- (l). Fuel Cell Pilot Process (from RFD Online No. 505).
- (m). Refrigerant Distillation Pilot Process (from RFD Online No. 1212).
- (n). Fluorochemical Foam Spray Booth (from RFD Online No. 1544).
- (o). Electrically powered refrigeration units, chillers, and air compressors.
- (p). Sandblast Weather Chamber inside Building No. 14 (no vent to atmosphere).
- (q). HVAC Unit Test Chamber (Building No. 1).

#002. The permittee shall perform a one-time calculation of the emissions of criteria pollutants from the sources listed in Condition (1) above. These calculations shall be kept on file and included in any reports on emissions that are submitted to the Department. Records shall be made available to the Department upon request.

#003. Operating permit OP-46-0022 and plan approval PA-46-0022 serve as the basis for some of the terms and conditions written in this State Only Operating Permit.

#004. Boiler No. 2, as the source was listed in OP-46-0022 and the State Only Operating Permit application, was removed from service on September 15, 2001. A new combustion unit (Boiler No. 2A) is being incorporated into this State Only Operating Permit through plan approval PA-46-0022.

#005. The capacities/throughputs listed in Sections A and D of this permit are included for descriptive purposes only, and these capacities/throughputs do not represent limitations or enforceable conditions by the Department.

#006. APS No. 346196; Authorization No. 870887: This authorization is for the renewal of the State Only Operating Permit for Arkema, Inc. Changes include the placement of laboratory operations under the insignificant activities list in #001 above, changes in the emergency generators located at this facility, and the removal of four thermal oxidizers from the operating permit. The thermal oxidizer (Source ID No. 002) has been replaced through RFD Online No. 2380.

#007. The three thermal oxidizers listed under Source ID No. 001, two on top of Building No. 1 (Thermal Oxidizers No. 1 and No. 4) and one behind Building No. 6 (Thermal Oxidizer No. 2), are inactive and disconnected from their fuel supplies. The thermal oxidizers remain on site, and they are not scheduled to be removed. These thermal oxidizers shall not be operated without a valid plan approval.

#008. The operating permit is being renewed under APS No. 346796; AUTH No. 1166433. General Permit GP1-46-0251 for Boiler 3 (Source 033) is being incorporated. Boiler 2A (Source 032A) has had its source of fuel oil removed and is now only a natural gas-fired boiler.

#009. Renewal of Operating Permit, AUTH No. 1403384. Per a letter dated May 17, 2023, the Site monitoring frequency was reduced to weekly monitoring for Section C, Condition #011.



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