



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

STATE ONLY SYNTHETIC MINOR OPERATING PERMIT

Issue Date: July 10, 2025

Effective Date: July 10, 2025

Expiration Date: July 9, 2030

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to operate the air emission source(s) more fully described in this permit. This Facility is subject to all terms and conditions specified in this permit. Nothing in this permit relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated.

State Only Permit No: 53-00009

Synthetic Minor

Federal Tax Id - Plant Code: 52-2064872-2

Owner Information

Name: MORGAN ADVANCED MATERIALS & TECH INC

Mailing Address: 1118 E 2ND ST
COUDERSPORT, PA 16915-8307

Plant Information

Plant: MORGAN ADV MAT & TECH/COUDERSPORT PLT

Location: 53 Potter County 53907 Eulalia Township
SIC Code: 3624 Manufacturing - Carbon And Graphite Products

Responsible Official

Name: CHRIS SCONZO

Title: SITE OP DIR-SM AND CDY

Phone: (814) 781 - 9291

Email: Chris.Sconzo@morganplc.com

Permit Contact Person

Name: TIMOTHY W GALL

Title: EH&S MANAGER

Phone: (814) 274 - 6113

Email: timothy.gall@morganplc.com

[Signature] _____

MUHAMMAD Q. ZAMAN, ENVIRONMENTAL PROGRAM MANAGER, NORTHCENTRAL REGION



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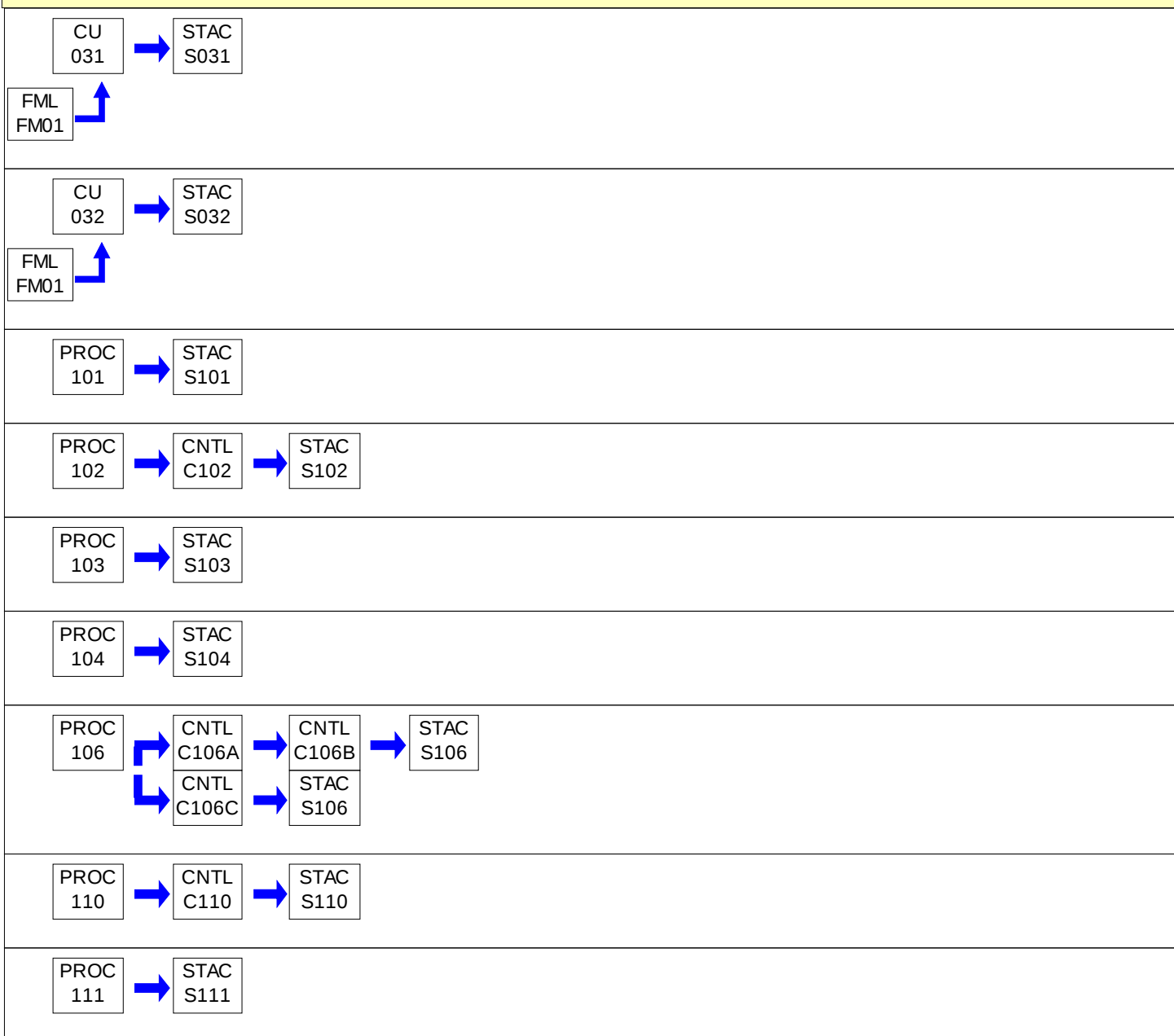
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**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
031	SPACE HEATERS	9.190 MMBTU/HR	
032	LARGE SPACE HEATERS	21.700 MMBTU/HR	
101	RESIN BATCH MIXER		
102	BAKE OVENS		
103	GRAPHITIZERS		
104	RESIN IMPREGNATION/CURING		
106	FOUR (4) CARBON BATCH MIXERS		
110	LARGE CONTINUOUS BAKING OVEN		
111	TREAT #1 IMPREGNATION		
112	TREAT #2 IMPREGNATION		
113	CURING OVENS		
114	EMERGENCY GENERATORS		
116	SPRAY BOOTHS		
118	EXO GAS GENERATORS		
119	BATCH OVENS		
120	PURBIDE E REACTORS		
122	CONTINUOUS ELECTRIC BAKING OVENS		
123	HEAT TREAT OVEN		
P200	GRAPHITE COATING (SHOP FLOOR)		
C102	AFTER BURNERS		
C106A	WATER-COOLED IMPINGER UNITS		
C106B	ELECTRIC POWERED THERMAL OXIDIZER		
C106C	MIXER HOOD FILTER PANELS		
C110	THERMAL OXIDIZER		
C119	BATCH OVEN THERMAL OXIDIZER		
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C122	THERMAL OXIDIZER		
C123	THERMAL OXIDIZER		
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S113	CURING OVENS STACK		

**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
S114	EMERGENCY GENERATOR STACK		
S118	EXO GAS GENERATOR STACK		
S119	BATCH OVEN STACK		
S119A	BATCH OVEN STACK		
S120	PURBIDE E REACTORS STACK		
S122	OXIDIZER STACK		
S123	THERMAL OXIDIZER STACK		
S200	DAG STACK		
Z001	FUGITIVE EMISSIONS		

PERMIT MAPS

**PERMIT MAPS**

PROC
112 → STAC
S112

PROC
113 → STAC
S113

PROC
114 → STAC
S114

PROC
116 → STAC
Z001

PROC
118 → STAC
S118

PROC
119 →

CNTL C119	→ STAC S119
CNTL C119A	→ STAC S119A

PROC
120 → STAC
S120

PROC
122 → CNTL
C122 → STAC
S122

PROC
123 → CNTL
C123 → STAC
S123

PROC
P200 → STAC
S200

**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 § 127.11a]**Reactivation of Sources**

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

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

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

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

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

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

No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of 25 Pa. Code Article III, except that with prior approval of the Department, the device or technique may be used for control of malodors.

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

(c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions.

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

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

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

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

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

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

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

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

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

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

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

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

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

No person may permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in Condition #001(a)(1)-(7) above, if the emissions are visible at the point the emissions pass outside the person's property.

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

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

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

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

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

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

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

[Additional authority for this permit condition is also derived from the permittee electing this synthetic minor restriction.]

The emission of sulfur oxides (SO_x) into the outdoor atmosphere from the entire facility shall not equal or exceed 100 tons in any 12 consecutive month period.

**SECTION C. Site Level Requirements****II. TESTING REQUIREMENTS.****# 006 [25 Pa. Code §139.1]****Sampling facilities.**

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

007 [25 Pa. Code §139.11]**General requirements.**

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

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

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

III. MONITORING REQUIREMENTS.**# 008 [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.

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

(a) The permittee shall keep records of the supporting calculations for each source on a monthly basis used to verify compliance with the sulfur oxide (SO_x) emission limitation for the entire facility.

(b) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**SECTION C. Site Level Requirements****# 010 [25 Pa. Code §135.5]****Recordkeeping**

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

V. REPORTING REQUIREMENTS.**# 011 [25 Pa. Code §127.442]****Reporting requirements.**

- (a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to the Department. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
- (b) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall submit a written or emailed report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.
- (c) The report shall describe the following:
1. name, permit or authorization number, and location of the facility,
 2. nature and cause of the malfunction, emergency or incident,
 3. date and time when the malfunction, emergency or incident was first observed,
 4. expected duration of excess emissions,
 5. estimated rate of emissions,
 6. corrective actions or preventative measures taken.
- (d) Any malfunction, emergency or incident of excess emissions that is not subject to the notice requirements of paragraph (b) of this condition shall be reported to the Department by telephone within 24 hours (or by 4:00 PM of the next business day, whichever is later) of discovery and in writing or by e-mail within five (5) business days of discovery. The report shall contain the same information required by paragraph (c), and any permit specific malfunction reporting requirements.
- (e) During an emergency an owner or operator may continue to operate the source at their discretion provided they submit justification for continued operation of a source during the emergency and follow all the notification and reporting 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.

012 [25 Pa. Code §127.442]**Reporting requirements.**

- (a) The permittee shall submit reports to the Department on an semi-annual basis that include the supporting monthly calculations used to verify compliance with the sulfur oxide (SO_x) emissions limitation for the entire facility.

**SECTION C. Site Level Requirements**

(b) The semi-annual reports shall be submitted to the Department no later than September 1 and March 1 for the previous 12 consecutive month period. Upon request by the Department, the permittee shall submit all requested reports in accordance with the Department's suggested format.

013 [25 Pa. Code §135.3]**Reporting**

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

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

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

VI. WORK PRACTICE REQUIREMENTS.**# 014 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

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

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

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

(3) Paving and maintenance of roadways.

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

VII. ADDITIONAL REQUIREMENTS.**# 015 [25 Pa. Code §121.7]****Prohibition of air pollution.**

No person may permit air pollution as that term is defined in the act (The Air Pollution Control Act (35 P.S. §§ 4001-4015)).

016 [25 Pa. Code §123.31]**Limitations**

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

017 [25 Pa. Code §129.14]**Open burning operations**

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

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.

**SECTION C. Site Level Requirements**

No compliance milestones exist.

**SECTION D. Source Level Requirements**

Source ID: 031

Source Name: SPACE HEATERS

Source Capacity/Throughput:

9.190 MMBTU/HR

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

001 [25 Pa. Code §123.22]

Combustion units

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

No person may permit the emission of sulfur oxides (SO_x), expressed as SO₂ into the outdoor atmosphere from each unit of Source ID 031 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use natural gas as fuel for each unit of Source ID 031.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Space Heaters/HVAC Units and one (1) Water Heater, Natural Gas Fired, each <2.5 MMBtu/hr rated heat input

(a) Two (2) Space Heaters, Aerovent, Model G276BD, company ID #3214, ID #3215, Natural Gas Fired, 0.6 MMBtu/hr, (located in Raw Material Storage and Water Treatment, & Maintenance)

(b) One (1) Space Heater, Aerovent, Model G426BD, company ID #2027, Natural Gas Fired, 0.60 MMBtu/hr, (located in Silicon Cell)

(c) One (1) Space Heater, Allied, company ID #3921, Natural Gas Fired, .05 MMBtu/hr, (located in Training Room)

(d) One (1) Space Heater, Sterling, Model EIM-RT-12A7J01K62015MB1E3H4HJ321, company ID #3920, Natural Gas Fired, 1.2 MMBtu/hr, (located in Shipping & Receiving)

(e) One (1) Space Heater, Aeon, Model RN-050-3-0, company ID #3754, Natural Gas Fired, 0.54 MMBtu/hr, (located in PTS)

(f) One (1) HVAC Unit, Climatrol, Model URH-08000-4U, company ID #1927, Natural Gas Fired, 0.10 MMBtu/hr, (located in Office)

(g) One (1) HVAC Unit, Lennox, Model LGA210SH1Y, company ID #3522, Natural Gas Fired, 0.47 MMBtu/hr, (located in QC)

(h) One (1) HVAC Unit, Carrier, Model 48HJE006-521AA, company ID #3524, Natural Gas Fired, 0.15 MMBtu/hr, (located in Reception)

(i) One (1) HVAC Unit, Carrier, Model 48HJE008-521AA, company ID #3525, Natural Gas Fired, 0.22 MMBtu/hr, (located in Plant Manager Office)

(j) Three (3) Infra-red Heaters, Perfection, Model JK50SSAN, company N/A, Natural Gas Fired, 0.05 MMBtu/hr, (located near Column B2)

(k) One (1) Infra-red Heaters, Perfection, Model JK50SSAN, company N/A, Natural Gas Fired, 0.30 MMBtu/hr, (located near centerless grinder)

(m) Two (2) Infra-red Heaters, Perfection, Model JK50SSAN, company N/A, Natural Gas Fired, 0.85 MMBtu/hr, (located in inspection area)

(n) One (1) Water Heater, A.O. Smith, Model HW300-300, company N/A, Natural Gas Fired, 0.3 MMBtu/hr, (located in Maintenance)

(o) One (1) Buderus Logano plus SB615 boiler, natural gas fired, 0.80 MMBtu/hr (located in New Armor Building)

(p) Two Rexnor UDAS200 heaters, natural gas fired, 0.20 MMBtu/hr each, (located in PTS oven area)

(q) One Mill oven, natural gas fired, 0.41 MMBtu/hr (located in carbon/pitch mix area)

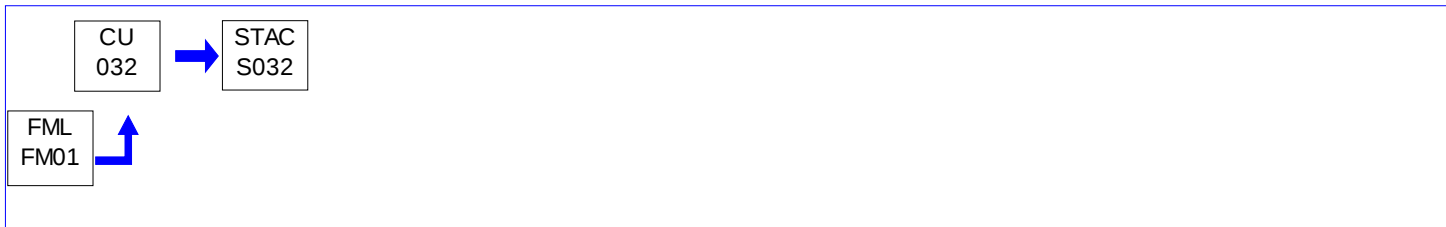
(r) One (1) space heater, RUPP Air Systems, Model R5D.2000-36D, natural gas fired, 1.23 MMBtu/hr (maintenance)

**SECTION D. Source Level Requirements**

Source ID: 032

Source Name: LARGE SPACE HEATERS

Source Capacity/Throughput: 21.700 MMBTU/HR

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

No person may permit the emission of particulate matter from each unit of Source ID 032 into the outdoor atmosphere in excess of 0.40 pound per million Btu of heat input.

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

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

No person may permit the emission of sulfur oxides (SO_x), expressed as SO₂ into the outdoor atmosphere from each unit of Source ID 032 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

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

The permittee shall only use natural gas as fuel for each unit of Source ID 032.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

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

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

VII. ADDITIONAL REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 032 consists of five (5) space heaters, natural gas fired as follows:

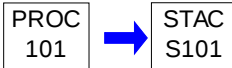
- (a) Two (2) space heaters, Aerovent, Model G606BD, Natural Gas fired, 5.00 MMBtu/hr (#1931, #4240)
- (b) One (1) space heater, RUPP Air Systems, Model RAM 30, Natural Gas fired, 3.08 MMBtu/hr (Armor North)
- (c) Two (2) space heaters, RUPP Air Systems, Model RAM 36, natural gas fired, 4.31 MMBtu/hr (Mix Room)

**SECTION D. Source Level Requirements**

Source ID: 101

Source Name: RESIN BATCH MIXER

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

The permittee shall not emit into the outdoor atmosphere of particulate matter, from Source ID 101, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Authority for this permit condition is derived from the Request For Determination dated March 27, 2019]

The emission of acetone from Source ID 101 shall be less than 60 tons in any 12 consecutive month period.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The volatile organic compound (VOC) and hazardous air pollutant (HAP) emissions from the Resin Mixer (Source ID 101) shall not exceed 0.5 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the amount of acetone used on a monthly basis in Source ID 101 and the supporting calculations used to verify compliance with the emission limitation in any 12 consecutive month period.

(b) These records shall be kept for a minimum of five (5) years and be made available to the Department upon request.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of calculations of the volatile organic compound and hazardous air pollutant emissions on a monthly basis to show compliance with the annual emission limitation.

V. REPORTING REQUIREMENTS.

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

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

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

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 101 is the resin mixing operation which consists of one vacuum extraction mixer, authorized via Request For Determination dated June 20, 2016.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

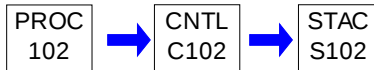
The permittee shall only use the Durite RD-2414 phenolic resin powder (or alternate resin determined by the Department to be equivalent) in the Resin Mixer (Source ID 101).

**SECTION D. Source Level Requirements**

Source ID: 102

Source Name: BAKE OVENS

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

The permittee shall not emit into the outdoor atmosphere of particulate matter, from each afterburner of ID C102 associated with each oven of Source ID 102, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from each oven of Source ID 102 in a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use natural gas as fuel for the natural gas fired oven of Source ID 102 and all afterburners of ID C102.

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 perform a visual check of each afterburner of ID C102 associated with each oven of Source ID 102, on a daily basis, to ensure the operation of each afterburner.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep a logbook of the inspections of all afterburners of ID C102 associated with each oven of Source ID 102. The logbook shall include the name or employee ID# of the company representative performing the inspection, the date and time of inspections, result of the inspection, and the name of the manager informed if corrective action is performed. The permittee shall also record any and all corrective action(s) taken to abate each recorded deviation to prevent future occurrences.

(b) These records shall be kept for a minimum of 5 years and shall be made available to the Department upon request.

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

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not operate any oven of Source ID 102 without the simultaneous operation of the respective afterburner of ID C102.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 102 consists of five (5) continuous heat treat ovens which consist of the following:

(a) One (1) natural gas fired continuous heat treat oven, custom built, 0.472 MMBtu/hr rated heat input. ID# 1722.

(b) Four (4) electric powered continuous heat treat ovens, IDs #2276, 2323, 2551, and 2915

(c) ID C102 consists of five (5) custom built, natural gas fired afterburners, 0.04 MMBtu/hr

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

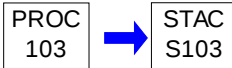
All afterburners of ID C102 shall control the air contaminants from each respective oven of Source ID 102.

**SECTION D. Source Level Requirements**

Source ID: 103

Source Name: GRAPHITIZERS

Source Capacity/Throughput:

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

The permittee shall not emit into the outdoor atmosphere of particulate matter, from Source ID 103, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from ID C103 associated with Source ID 103 in a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

(a) The permittee shall keep records of the following information:

(1) The amount of carbon parts processed through Source ID 103 on a monthly basis.

(2) The amount of SO_x emissions on a monthly basis emitted from Source ID 103 and the supporting calculations to verify the emissions in any 12 consecutive month period.

(b) These records shall be kept for a minimum of five (5) years and be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

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

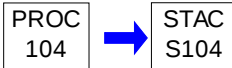
Source ID 103 consists of three Pillar Induction graphitizers.

**SECTION D. Source Level Requirements**

Source ID: 104

Source Name: RESIN IMPREGNATION/CURING

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

The permittee shall not emit into the outdoor atmosphere of particulate matter, from each oven of Source ID 104, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from each oven of Source ID 104 in a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the following information:

(1) The amount of resin processed through Source ID 104 on a monthly basis and the supporting calculations of the monthly emissions from Source ID 104.

(2) The amount of acetone used on a monthly basis in Source ID 104 and the supporting calculations of the monthly acetone emissions from Source ID 104

(b) These records shall be kept for a minimum of five (5) years and be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

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

Source ID 104 is the main impregnation operation which consists of the following:

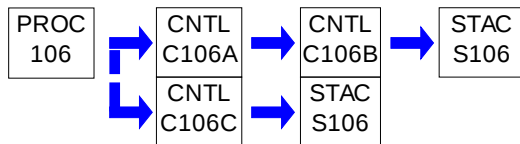
- Cure oven, Polyester resin, Hayes, ID 3372
- Cure oven, Polyester resin, Hayes, ID 3518
- Cure oven, Polyester resin, Hayes, ID 3374
- Cure oven, Polyester resin/D-87 Epoxy resin, Hayes, ID 3373
- Pressure Cure Vessel, PB-18/D-16 Phenolic resin, West Warwick Welding, ID 3638
- Pressure Cure Vessel, PB-18/D-16 Phenolic resin, West Warwick Welding, ID 2347
- Pressure Cure Vessel, PB-18/D-16 Phenolic resin, West Warwick Welding, ID 3639
- Pressure Cure Vessel, PB-18/D-16 Phenolic resin, Zeyon
- Pressure Cure Vessel, PB-18/D-16 Phenolic resin, Zeyon
- Pressure Cure Vessel, PB-18/D-16 Phenolic resin, Zeyon
- Pressure Cure Vessel, PB-18/D-16 Phenolic resin, Zeyon
- Pre-Dry oven, Phenolic resin, Gruenberg, ID 3280
- Dry Oven, H2O dry, Grieves, ID 4619
- Dry Oven, H2O dry, Grieves, ID 4620
- Acetone Rinse Tank
- Acetone Rinse Tank
- Acetone Rinse Tank
- Acetone Rinse Tank

**SECTION D. Source Level Requirements**

Source ID: 106

Source Name: FOUR (4) CARBON BATCH MIXERS

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

The permittee shall not emit into the outdoor atmosphere of particulate matter, from Source ID 106, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

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.

ID C106B shall be equipped with instrumentation to monitor and record the combustion temperature of the thermal oxidizer on a continuous basis.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep a logbook of the inspections of Source ID 106, IDs C106A, C106B, and C106C. The logbook shall include the name or employee ID# of the company representative performing the inspection, the date and time of inspections, result of the inspection, and the name of the manager informed if corrective action is performed. The permittee shall also record any and all corrective action(s) taken to abate each recorded deviation to prevent future occurrences.

(b) These records shall be kept for a minimum of 5 years and shall be made available to the Department upon request.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the combustion temperature of ID C106B on a continuous basis.

(b) These records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

**SECTION D. Source Level Requirements**

The permittee shall follow the preventative maintenance program for Source ID 106 as described below.

(a) Daily checks, once per shift of ID C106B are to be performed and the results logged. Should the readings indicate a need for corrective action, such action is to be taken immediately and a record of the action logged.

(b) Source ID 106 and IDs C106A, C106B, and C106C, included, but not limited to ductwork, impingers, fans, seals, roll filters, and oxidizers, are to be checked at least once per week and the results logged. Any necessary corrections are to be performed immediately and a record of the action logged.

(c) ID C106A associated with Source ID 106 is to be cleaned and maintained to prevent the buildup of material in the mixer exhaust manifold. This system shall be checked on a daily basis and the results logged, including exhaust manifold "ramp-up" temperature and hold time. Any necessary corrections are to be performed immediately and a record of the action logged.

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

The permittee shall keep on hand a sufficient quantity of filters for ID C106C associated with Source ID 106, in order to be able to immediately replace any filters requiring replacement.

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

The permittee shall maintain an combustion temperature from ID C106B of at least 1,400 degrees Fahrenheit any time that Source ID 106 is in operation.

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

The permittee shall not operate Source ID 106 without the simultaneous operation of IDs C106A, C106B, and C106C associated with Source ID 106.

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

(a) Source ID 106 consists of four (4) carbon batch mixers which are used for the production of molding flours.

(1) Baker-Perkins, ID #2530

(2) Baker-Perkins, ID #1025

(3) Baker-Perkins, ID #1187

(4) Reedco, ID #1161

(b) ID C106A consists of four sets of three (3) stage impinger trains, custom built.

(c) ID C106B consists of four electric thermal fume oxidizers, custom built.

(d) ID C106C consists of four American Air Filter roll filters, one on each mixer exhaust hood.

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

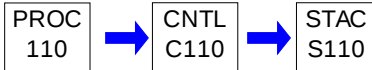
The air contaminant emissions from Source ID 106 shall be controlled by IDs C106A, C106B and C106C.

**SECTION D. Source Level Requirements**

Source ID: 110

Source Name: LARGE CONTINUOUS BAKING OVEN

Source Capacity/Throughput:

**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, expressed as SO₂, from ID C110 associated with Source ID 110 in a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

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

{Compliance with this streamlined permit condition assures compliance with the requirements of 25 Pa. Code Section 123.13}

The permittee shall not emit into the outdoor atmosphere of particulate matter, from ID C110 associated with Source ID 110, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.02 grains per dry standard cubic foot.

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

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

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

No person may permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is equal to or greater than 0% (excluding steam or water vapor) at any time.

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

(a) The permittee shall keep records of the combustion temperature of ID C110 on a continuous basis.

(b) These records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

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

The permittee shall use electric as a heat source for Source ID 110 and the combination of natural gas and electric as fuel/heat source for ID C110.

II. TESTING REQUIREMENTS.

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

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

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

ID C110 shall be equipped with instrumentation to monitor the combustion gas temperature on a continuous basis. Additionally, ID C110 shall be equipped with an audible or visual alarm that shall indicate when the combustion gas temperature drops below 1,400°F as well as interlocks with the thermal oxidizer's silicon carbide glow bar.

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

ID C110 shall be equipped with instrumentation to monitor and record the combustion temperature of the thermal oxidizer on a continuous basis.

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

(a) The permittee shall keep records of the combustion temperature of ID C110 on a continuous basis.

(b) These records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

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

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

The combustion gas temperature of Source ID 110 shall be greater than 1,400°F prior to the initiation of oven operation.

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

(a) Source ID 110 is an electric Hayes 6" x 12" x 34'-0 long Pusher Slab continuous green carbon parts bake oven,

(b) ID C110 is a custom built natural gas-fired thermal oxidizer with a rated heat input of 0.016 MMBtu/hr and equipped with a 2.5 kW heater and glow bar.

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

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

The residence time of ID C110 shall not be less than 0.78 seconds.

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

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

**SECTION D. Source Level Requirements**

The permittee shall maintain an combustion gas temperature from ID C110 of at least 1,400°F any time that Source ID 110 is in operation.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

The air contaminint emissions from Source ID 110 shall be controlled by ID C110.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

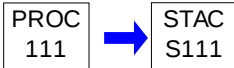
The permittee shall not operate Source ID 110 without the simultaneous operation of ID C110.

**SECTION D. Source Level Requirements**

Source ID: 111

Source Name: TREAT #1 IMPREGNATION

Source Capacity/Throughput:

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not emit the following air contaminants from Source ID 111 in excess of the limitations listed below:

- (a) Volatile Organic Compounds (VOC) - 1.33 tons in any 12 consecutive month period
- (b) Formaldehyde - 0.18 tons in any 12 consecutive month period.
- (c) Methyl Alcohol - 0.17 tons of Methyl Alcohol in any 12 consecutive month period.
- (d) Phenol - 0.98 tons in any 12 consecutive month period.

Throughput Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use Capital Resin Corporation #CRC-720 phenolic resin (or alternate resin determined by the Department to be equivalent) in Source ID 111 and shall not use more than 19,674 pounds of phenolic resin in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the following information for Source ID 111:

- (1) The emission of volatile organic compounds (VOC), Phenol, Formaldehyde and Methyl Alcohol from Source ID 111 on a monthly basis and the supporting calculations used to verify compliance with the VOC, Phenol, formaldehyde and methyl alcohol emission limitations in any 12 consecutive month period
 - (2) The amount of Capital Resin Corporation #CRC-720 phenolic resin processed through Source ID 111 on a monthly basis and the supporting calculations used to verify compliance with the phenolic resin throughput limitation in any 12 consecutive month period.
- (b) These records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

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

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 111 is the Treat #1 Impregnation System which consists of the following:

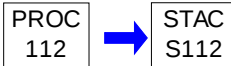
- (a) Pre-Cure Oven, Electric Powered, Despatch Oven, Model TAD-3-21-1E, ID # 3825
- (b) Tank #1, West Warwick Welding, Model 16727, ID # 3836
- (c) Tank #2, West Warwick Welding, Model 16726, ID # 3837
- (d) Cure Tank #1, West Warwick Welding, Model 15590, ID # 3840
- (e) Cure Tank #2, West Warwick Welding, Model 15592, ID # 3841

**SECTION D. Source Level Requirements**

Source ID: 112

Source Name: TREAT #2 IMPREGNATION

Source Capacity/Throughput:

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not emit more than 0.76 tons of volatile organic compounds (VOCs) from Source ID 112 in any 12 consecutive month period.

Throughput Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use Von Roll Isola USA, Inc. insulating varnish (or alternate varnish determined by the Department to be equivalent) in Source ID 112 and shall not use more than 2,533 pounds of insulating varnish in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the following information

(1) The emission of volatile organic compounds (VOC) on a monthly basis from Source ID 112 and the supporting calculations used to verify compliance with the VOC emission limitation in any 12 consecutive month period

(2) The amount of Von Roll Isola USA, Inc insulating varnish processed through Source ID 112 on a monthly basis and the supporting calculations used to verify compliance with the insulating varnish throughput limitation in any 12 consecutive month period.

(b) These records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

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

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

VII. ADDITIONAL REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 112 is the Treat #2 impregnation system which consists of the following:

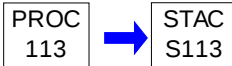
- (a) Cure Oven #1, Electric Powered, Despatch Oven, Model TAD-3-21-1E, ID # 3822
- (b) Pre-Cure Oven, Electric Powered, Despatch Oven, Model TAD-3-21-1E, ID # 3824
- (c) Tank #1, West Warwick Welding, Model 16728, ID # 3838
- (d) Tank #2, West Warwick Welding, Model 15608, ID # 3839

**SECTION D. Source Level Requirements**

Source ID: 113

Source Name: CURING OVENS

Source Capacity/Throughput:

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

The permittee shall not emit into the outdoor atmosphere of particulate matter, from Source ID 113, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

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

[Additional authority for this permit condition is derived from the Request for Determination authorized March 4, 2024, eRFD 10511]

The total combined volatile organic compound (VOCs) emissions from the curing ovens of Source ID 113 shall not exceed 0.59 tons in any 12 consecutive month period.

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

[Additional authority for this permit condition is derived from the Request for Determination authorized March 4, 2024, eRFD 10511]

(a) The total combined hazardous air pollutant (HAPs) emissions from the curing ovens of Source ID 113 shall not exceed 0.36 tons in any 12 consecutive month period.

(b) The hazardous air pollutants may not contain Polychlorinated Biphenyls (PCBs), Chromium (Cr), Mercury (Hg), Lead (Pb), Polycyclic Organic Matter (POM), Dioxins or Furans.

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

(a) The permittee shall keep records of the emission of the total combined volatile organic compounds and hazardous air pollutants from the curing ovens of Source ID 113 and associated sources on a monthly basis and the supporting calculations to verify compliance with the respective emission limitation in any 12 consecutive month period.

(b) These records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

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

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

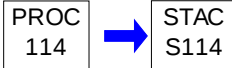
Source ID 113 consists of five electric-powered curing ovens, Grieve WRH 566-500, ID #3821, #3592, #3595, and #4513 (as approved through RFD on August 24, 2006, May 24, 2012, March 27, 2019, and March 4, 2024 eRFD 10511).

**SECTION D. Source Level Requirements**

Source ID: 114

Source Name: EMERGENCY GENERATORS

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

The permittee shall not emit into the outdoor atmosphere of particulate matter, from each unit of Source ID 114, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from each unit of Source ID 114 in a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4202]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**What emission standards must I meet for emergency engines if I am a stationary CI internal combustion engine manufa**

The 287 bhp diesel engine shall comply with the applicable requirements specified in 40 CFR Section 60.4202(a).

004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4233]

Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines**What emission standards must I meet if I am an owner or operator of a stationary SI internal combustion engine?**

The 162 bhp natural gas engine shall comply with the applicable requirements specified in 40 CFR Section 60.4233(e).

Fuel Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall only use diesel fuel for the three diesel fired generators and only use natural gas for the three natural gas fired generators of Source ID 114.

006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4207]

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to**

The 287 bhp diesel engine shall comply with the applicable fuel specification requirements specified in 40 CFR Section 60.4207(b).

Operation Hours Restriction(s).

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not operate each unit of Source ID 114 more than 500 hours in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

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

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

008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4209]

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

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

The 287 bhp diesel engine shall comply with the applicable monitoring requirements specified in 40 CFR Section 60.4209(a)

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6635]

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

How do I monitor and collect data to demonstrate continuous compliance?

The 277 bhp and 207 bhp diesel engines and the two 245 bhp natural gas engines shall comply with the applicable monitoring requirements specified in 40 CFR Section 63.6635.

IV. RECORDKEEPING REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall keep records of the number of hours that each emergency generator of Source ID 114 is operated on a monthly basis and the calculations used to verify compliance with the operational hour limitation in any 12 consecutive month period.

(b) These records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

011 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]

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

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

The 162 bhp natural gas engine shall comply with the applicable requirements specified in 40 CFR Section 60.4243(b) and (d).

012 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]

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

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

The 162 bhp natural gas engine shall comply with the applicable requirements specified in 40 CFR Section 60.4245(a).

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]

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

What records must I keep?

The 277 bhp and 207 bhp diesel engines and the two 245 bhp natural gas engines shall comply with the applicable recordkeeping requirements specified in Sections 63.6655(a) and (e).

V. REPORTING REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall submit an annual report to the Department which includes the number of hours that each emergency generator of Source ID 114 is operated on a monthly basis and supporting calculations used to verify compliance with the operational hour limitation in any 12 consecutive month period.

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

**SECTION D. Source Level Requirements****# 015 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4214]****Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

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

The permittee shall comply with the applicable reporting requirements specified in 40 CFR Section 60.4214(b).

016 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines**

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

The 162 bhp natural gas engine shall comply with the applicable requirements specified in 40 CFR Section 60.4245(a).

017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6645]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**

What notifications must I submit and when?

The 277 bhp and 207 bhp diesel engines and the two 245 bhp natural gas engines shall comply with the applicable notification requirements specified in Section 63.6645.

018 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6650]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**

What reports must I submit and when?

The 277 bhp and 207 bhp diesel engines and the two 245 bhp natural gas engines shall comply with the applicable reporting requirements specified in Section 63.6650.

VI. WORK PRACTICE REQUIREMENTS.**# 019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6603]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**

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

The 277 bhp and 207 bhp diesel engines and the two 245 bhp natural gas engines shall comply with the applicable operating requirements specified in Section 63.6603(a).

020 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**

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

The 277 bhp and 207 bhp diesel engines shall comply with the applicable operating requirements specified in Sections 63.6625(e), (f), (h), and (i)

The two 245 bhp natural gas engines shall comply with the applicable operating requirements specified in Sections 63.6625(j).

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

Source ID 114 consists of three (3) diesel fired emergency generators and three (3) natural gas fired emergency generator which are as follows:

(a) Three (3) diesel generators

(1) One (1) Cummins, Model # 150DGFA-449087 / # K000172524, 277 BHP

**SECTION D. Source Level Requirements**

(2) One (1) Cummins, Model # 125DGDGK-4117 / # L030584085, 207 BHP

(3) One (1) Cummins, Model # 175DSHAB-5791098 / # B070026612, 287 BHP

(b) Three (3) natural gas generators

(1) One (1) Kohler Model # 100RZ282, S/N# 363669, 100 kW, Water Treatment Area, 245 BHP

(2) One (1) Kohler Model # 100REZGD, S/N# SGM3224TD, 100 kW, Purbide/Graphitizing Area, 162 BHP

(3) One (1) Kohler Model # 100RZ282, S/N# 174101, 100 kW, Batch Oven Area, 245 BHP

022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 114 is subject to 40 CFR Part 63, Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants: Stationary Reciprocating Internal Combustion Engines (RICE). The permittee shall comply with all applicable requirements specified in 40 CFR Sections 63.6580 through 63.6675.

023 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4200]

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

Am I subject to this subpart?

The 287 bhp diesel engine is subject to Subpart IIII of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Sections 60.4200 - 60.4219. The permittee shall comply with all applicable requirements of 40 CFR Part 60 Subpart IIII.

024 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4211]

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

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

The 287 bhp diesel engine shall comply with the applicable compliance requirements specified in 40 CFR Section 60.4211(a), (c), and (f).

025 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4230]

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

Am I subject to this subpart?

The 162 bhp natural gas engine is subject to Subpart JJJJ of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Sections 60.4230 - 60.4248. The permittee shall comply with all applicable requirements of 40 CFR Part 60 Subpart JJJJ.

026 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6605]

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

What are my general requirements for complying with this subpart?

The 277 bhp and 207 bhp diesel engines and the two 245 bhp natural gas engines shall comply with the applicable general requirements specified in 40 CFR Section 63.6605.

027 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6612]

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

By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake (please see below)

The 277 bhp and 207 bhp diesel engines and the two 245 bhp natural gas engines shall comply with the applicable general requirements specified in 40 CFR Section 63.6612.

028 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6630]

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

How do I demonstrate initial compliance with the emission limitations and operating limitations?

**SECTION D. Source Level Requirements**

The 277 bhp and 207 bhp diesel engines and the two 245 bhp natural gas engines shall comply with the applicable general requirements specified in 40 CFR Section 63.6630.

029 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]

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

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

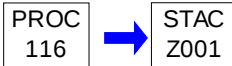
The 277 bhp and 207 bhp diesel engines and the two 245 bhp natural gas engines shall comply with the applicable continuous compliance requirements specified in Sections 63.6640(a), (b), and (f);

**SECTION D. Source Level Requirements**

Source ID: 116

Source Name: SPRAY BOOTHS

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

The particulate matter emissions from the exhaust of the panel filters associated with the spray hoods shall not exceed 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the number of cans used in the spray booths #1 and #3 each month and the calculation used to verify compliance with the throughput limitation in any 12 consecutive month period.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep daily records of:

(1) The following parameters for each coating, thinner and other component as supplied for use in each spray booth at the facility:

(i) The coating, thinner or component name and identification number.

(ii) The volume used.

(iii) The mix ratio.

(iv) The density or specific gravity.

(v) The weight percent of total volatiles, water, solids and exempt solvents.

(2) The VOC content of each coating (lbs VOC/lb solids), thinner and other component as supplied for use in the molding area spray booth at the facility.

(3) The VOC content of each as applied coating (lbs VOC/ lb solids) for use in the molding area pray booth at the facility.

These records shall be retained for a minimum of 5 years and shall be made available to the Department upon request.

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

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

VI. WORK PRACTICE REQUIREMENTS.

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

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

The particulate matter emissions from the spray hoods shall be controlled by panel filters.

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

[Additional authority for this permit condition is derived from the Request for Determination authorized October 31, 2024, eRFD 10853]

(a) In spray booth #1, the permittee shall only use Plasti Dip 11oz PDI Black (or alternate coating determined by the Department to have an equivalent or lesser air contaminant emission potential) and stencil ink.

(b) The permittee shall not use more than 730 cans of Plasti Dip 11oz PDI Black in any 12 consecutive month period.

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

Source ID 116 consists of three spray booths:

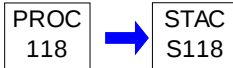
- 1) Spray booth #1 is used to coat parts from the molding area that are being tested for quality purposes and vents directly to the atmosphere.
- 2) Spray booth #2 is used to coat parts prior to the silicon carbide sintering operations and vents internally.
- 3) Spray booth #3 is used to coat parts from the molding area that are being tested for quality purposes and vents directly to the atmosphere.

**SECTION D. Source Level Requirements**

Source ID: 118

Source Name: EXO GAS GENERATORS

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

The permittee shall not emit into the outdoor atmosphere of particulate matter, from each unit of Source ID 118, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from each unit of Source ID 118 in a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

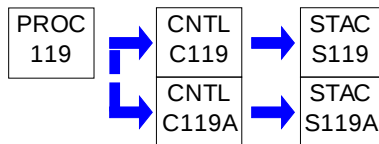
Source ID 118 consists of two (2) natural gas fired exothermic (EXO) gas generators. The EXO gas comprises primarily of nitrogen gas (N₂), carbon monoxide, and carbon dioxide (CO₂) with about 5% of other combustibles (i.e. Methane (CH₄) and Hydrogen gas (H₂)) and is used in the ovens to create an oxygen starved environment for other processes.

**SECTION D. Source Level Requirements**

Source ID: 119

Source Name: BATCH OVENS

Source Capacity/Throughput:

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

The permittee shall not emit into the outdoor atmosphere of particulate matter, from Source ID 119, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from ID C119 associated with Source ID 119 in a manner that the concentration of sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

[Additional authority for this permit condition is derived from the Request for Determination authorized October 4, 2023, eRFD 10120]

(a) Morgan AM&T shall not emit the following air contaminants from the exhaust of ID C119A associated with oven #(2) in Source 119 in excess of the limitations listed below:

- (1) Volatile organic compounds (VOC) - 0.047 lb/hr and 0.21 tons in any 12 consecutive month period,
- (2) Sulfur oxides (SO_x, expressed as SO₂) – 1.47 lb/hr and 6.44 tons in any 12 consecutive month period.

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

[Additional authority for this permit condition is derived from the Request for Determination authorized October 4, 2023, eRFD 10120]

The permittee shall not emit into the outdoor atmosphere of particulate matter, from the exhaust of ID C119A associated with oven #(2) in Source ID 119, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.01 grains per dry standard cubic foot.

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

[Additional authority for this permit condition is derived from the Request for Determination authorized October 4, 2023, eRFD 10120]

The permittee shall not allow the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission from the exhaust of ID C119A associated with oven #(2) in Source 119 is equal to or greater than 10% at any time.

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

[Additional authority for this permit condition is derived from the Request for Determination authorized October 4, 2023, eRFD 10120]

The permittee shall only use natural gas as fuel for the ovens in Source ID 119, ID C119 and ID C119A.

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

[Additional authority for this permit condition is derived from the Request for Determination authorized October 4, 2023, eRFD 10120]

The maximum production rate through the oven #(2) shall not exceed 75 lb/hr at any time.

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

[Additional authority for this permit condition is derived from the Request for Determination authorized October 4, 2023, eRFD 10120]

The volatile organic compound (VOC) destruction efficiency of ID C119A shall not be less than 98%.

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

ID C119 shall be equipped with instrumentation to monitor and record the exhaust temperature of the thermal oxidizer on a continuous basis.

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

[Additional authority for this permit condition is derived from the Request for Determination authorized October 4, 2023, eRFD 10120]

ID C119A shall be equipped with instrumentation to monitor and record the combustion temperature of ID C119A and shall monitor and record the combustion temperature on a continuous basis. Each monitoring system shall include an UV detector and alarm to notify the operator that the combustion temperature has dropped below 1,400°F or that a flame out condition has occurred.

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

(a) The permittee shall keep records of the exhaust temperature of ID C119 on a continuous basis.

(b) These records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

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

[Additional authority for this permit condition is derived from the Request for Determination authorized October 4, 2023, eRFD 10120]

(a) The permittee shall keep records of the following information for oven #(2) in Source 119:

(1) The amount of product processed through oven #(2) in Source 119 on a monthly basis,

(2) The supporting calculations on a monthly basis used to verify compliance with the volatile organic compound and sulfur oxide emission limitations from oven #(2) in Source 119 in any 12 consecutive month period.

(3) The test reports and supporting calculations used to verify compliance with the volatile organic compound emission limitation from oven #(2) in Source 119 and the volatile organic compound destruction efficiency requirement of ID C119A.

(4) The supporting calculations used to verify compliance with the throughput limitation of oven #(2) in Source 119,

(5) The supporting calculations used to verify compliance with the particulate matter emission limitation of oven #(2) in Source 119, and

(6) The outlet temperature of ID C119A on a continuous basis,

(b) These records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from the Request for Determination authorized October 4, 2023, eRFD 10120]

The combustion gas temperature of ID C119 and ID C119A shall be maintained at no less than 1,400°F at all times during the operation of the ovens in Source ID 119.

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

[Additional authority for this permit condition is derived from the Request for Determination authorized October 4, 2023, eRFD 10120]

The permittee shall not operate the ovens in Source ID 119 without the simultaneous operation of their respective ID C119 and ID C119A.

**SECTION D. Source Level Requirements****# 015 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) Source ID 119 consists of the following ovens:

(1) one natural gas-fired batch carbon / graphite molded parts baking oven, 9' x 16' x 10', 4.0 MMBtu/hr, ID# 2912, whose emissions are controlled by ID C119 CJS Energy Resources natural gas-fired thermal oxidizer, 4.00 MMBtu/hr.

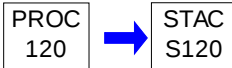
(2) one Swindell Dressler batch oven equipped with a 6.0 MMBtu/hr furnace burner ID# 4723, whose emissions are controlled by ID C119A internal thermal oxidizer, 3.00 MMBtu/hr. [eRFD 10120 authorized October 4, 2023]

**SECTION D. Source Level Requirements**

Source ID: 120

Source Name: PURBIDE E REACTORS

Source Capacity/Throughput:

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

001 [25 Pa. Code §123.13]

Processes

The permittee shall not emit into the outdoor atmosphere of particulate matter, from each oven of Source ID 120, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from each oven of Source ID 119 in a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

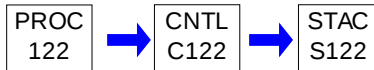
Source ID 120 consists of four electric powered coking ovens, Purbide E.

**SECTION D. Source Level Requirements**

Source ID: 122

Source Name: CONTINUOUS ELECTRIC BAKING OVENS

Source Capacity/Throughput:

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

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

002 [25 Pa. Code §123.21]**General**

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

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall not emit the following air contaminants from the exhaust of ID C122a associated with Source ID 122a in excess of the limitations listed below:

- (a) Volatile organic compounds (VOC) - 0.92 lb/hr and 4.0 tons in any 12 consecutive month period,
- (b) Hazardous Air Pollutants (HAP) - 0.21 lb/hr and 0.90 tons in any 12 consecutive month period.

If the results from the initial stack testing indicate a variance from the emission limitations, due to legitimate actual process operation and not due to poor or unusual operation of the process or oxidizer, the emission limit may be revised upon the Department's discretion.

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

[Compliance with this condition assures compliance with 25 Pa. Code Section 123.41]

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee may not allow visible air contaminants in such a manner that the opacity of the emission from ID C122a, associated with Source ID 122a, is equal to or greater than 10% at any time.

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

[Additional authority for this permit condition is derived from the Request for Determination eRFD 8782 authorized on November 4, 2020]

The permittee shall not emit the following air contaminants from the exhaust of ID C122b associated with Source ID 122b in excess of the limitations listed below:

- (a) Volatile organic compounds (VOC) - 2.7 tons in any 12 consecutive month period,
- (b) Hazardous Air Pollutants (HAP) - 0.62 tons in any 12 consecutive month period.

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

[Additional authority for this permit condition is derived from the Request for Determination eRFD 8782 authorized on November 4, 2020]

The permittee shall only use natural gas as fuel for ID C122b.

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall only use natural gas as fuel for ID C122a.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the maximum production rate of silicon carbide flour processed through Source ID 122a shall not exceed 458 lb/hr at any time.

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

[Additional authority for this permit condition is derived from the Request for Determination eRFD 8782 authorized on November 4, 2020]

The maximum production rate of silicon carbide flour processed through Source ID 122b shall not exceed 458 lb/hr at any time.

Control Device Efficiency Restriction(s).**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the volatile organic compound (VOC) destruction efficiency ID C122a shall not be less than 98%.

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

[Additional authority for this permit condition is derived from the Request for Determination eRFD 8782 authorized on November 4, 2020]

The volatile organic compound (VOC) destruction efficiency ID C122b shall not be less than 98%.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall equip ID C122a with instrumentation to monitor and record the temperature of ID C122a and shall monitor and record the temperature on a continuous basis. Each monitoring system shall include an UV detector and alarm to notify the operator that the outlet temperature has dropped below 1,450°F or that a flame out condition has occurred.

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

[Additional authority for this permit condition is derived from the Request for Determination eRFD 8782 authorized on

**SECTION D. Source Level Requirements**

November 4, 2020]

The permittee shall equip ID C122b with instrumentation to monitor and record the temperature of ID C122b and shall monitor and record the temperature on a continuous basis. Each monitoring system shall include an UV detector and alarm to notify the operator that the outlet temperature has dropped below 1,450°F or that a flame out condition has occurred.

IV. RECORDKEEPING REQUIREMENTS.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the following information for Source ID 122a and ID 122b:

- (a) The amount of product processed through Source ID 122a and ID 122b on a monthly basis,
- (b) The supporting calculations on a monthly basis used to verify compliance with the volatile organic compound and hazardous air pollutant emission limitations from Source ID 122a and ID 122b in any 12 consecutive month period,
- (c) The test reports and supporting calculations used to verify compliance with the volatile organic compound emission limitation of Source ID 122a and ID 122b and the destruction efficiency requirement for ID C122a and ID C122b,
- (d) The supporting calculations used to verify compliance with the throughput limitation of Source ID 122a and ID 122b,
- (e) The outlet temperature of ID C122a and ID C122b on a continuous basis.

These records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the atmosphere of Source ID 122a shall operate under a nitrogen gas atmosphere at any time that Source ID 122a is operational.

Argon is also authorized to be used in Source ID 122a.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the permittee shall not operate Source ID 122a, except for idling, without the simultaneous operation of the respective thermal oxidizer (ID C122a).

In this condition, idling is defined as: the operation of the oven at temperature without the processing material through the oven and which no air contaminant emissions are created.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from the Request for Determination eRFD 8782 authorized on November 4, 2020]

The atmosphere of Source ID 122b shall operate under a nitrogen gas atmosphere at any time that Source ID 122b is

**SECTION D. Source Level Requirements**

operational.

Argon is also authorized to be used in Source ID 122b.

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

[Additional authority for this permit condition is derived from the Request for Determination eRFD 8782 authorized on November 4, 2020]

The permittee shall not operate Source ID 122b, except for idling, without the simultaneous operation of the respective thermal oxidizer (ID C122b).

In this condition, idling is defined as: the operation of the oven at temperature without the processing material through the oven and which no air contaminant emissions are created.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, the temperature of ID C122a shall be maintained at no less than 1,400°F at all times during the operation of Source ID 122a.

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

Pursuant to the best available technology requirements of 25 Pa. Code Sections 127.1 and 127.12, Source ID 122 includes one electric powered Hayes type BAC-M continuous belt oven (Source ID 122a).

The air contaminant emissions from Source ID 122a shall be controlled by a natural gas-fired, Abbott Furnace Company custom Pure 12.6 ft³ thermal oxidizer with a rated heat input of 0.5 MMBtu/hr herein ID C122a.

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

[Additional authority for this permit condition is derived from the Request for Determination eRFD 8782 authorized on November 4, 2020]

The temperature of ID C122b shall be maintained at no less than 1,400°F at all times during the operation of Source ID 122b.

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

[Additional authority for this permit condition is derived from the Request for Determination eRFD 8782 authorized on November 4, 2020]

Source ID 122 also includes one electric powered Abbott Furnace Company continuous belt debind oven (Source ID 122b).

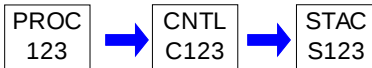
The air contaminant emissions from Source ID 122b shall be controlled by a natural gas-fired, Abbott Furnace Company custom thermal oxidizer with a rated heat input of 0.5 MMBtu/hr herein ID C122b.

**SECTION D. Source Level Requirements**

Source ID: 123

Source Name: HEAT TREAT OVEN

Source Capacity/Throughput:

**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, expressed as SO₂, from the exhaust of ID C123 associated with Source ID 123 in a manner that the concentration of the sulfur oxides in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

[Additional authority for this permit condition is derived from the Request for Determination eRFD 9025 authorized on April 27, 2021]

The permittee shall not emit the following air contaminants from the exhaust of ID C123 associated with Source ID 123 in excess of the limitations listed below:

- (a) Volatile organic compounds (VOC) - 0.48 lb/hr and 2.08 tons in any 12 consecutive month period,
- (b) Sulfur oxides (SO_x, expressed as SO₂) – 2.28 lb/hr and 10.0 tons in any 12 consecutive month period.

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

[Additional authority for this permit condition is derived from the Request for Determination eRFD 9025 authorized on April 27, 2021]

[Compliance with this condition assures compliance with 25 Pa. Code Section 123.13]

The permittee shall not emit into the outdoor atmosphere of particulate matter, from the exhaust of ID C123 associated with Source ID 123, in a manner that the concentration of particulate matter in the effluent gas exceeds 0.01 grains per dry standard cubic foot.

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

[Additional authority for this permit condition is derived from the Request for Determination eRFD 9025 authorized on April 27, 2021]

No person may permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission from the exhaust of ID C123 associated with Source ID 123 is equal to or greater than 10% at any time.

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

[Additional authority for this permit condition is derived from the Request for Determination eRFD 9025 authorized on April 27, 2021]

The maximum production rate through Source ID 123 shall not exceed 100 lb/hr at any time.

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

[Additional authority for this permit condition is derived from the Request for Determination eRFD 9025 authorized on April 27, 2021]

The volatile organic compound (VOC) destruction efficiency of ID C123 shall not be less than 95%.

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

Within 180 days of commencing operation of Source ID 123, the permittee shall perform EPA reference method stack testing to demonstrate compliance with the volatile organic compound emission limitation from Source ID 123 and the volatile organic compound destruction efficiency requirement of ID C123.

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

[Additional authority for this permit condition is derived from the Request for Determination eRFD 9025 authorized on April 27, 2021]

The permittee shall equip ID C123 with instrumentation to monitor and record the combustion temperature of ID C123 and shall monitor and record the combustion temperature on a continuous basis. Each monitoring system shall include an UV detector and alarm to notify the operator that the combustion temperature has dropped below 1,400°F or that a flame out condition has occurred.

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

The permittee shall keep records of the following information for Source ID 123:

- (a) The amount of product processed through Source ID 123 on a monthly basis,
- (b) The supporting calculations on a monthly basis used to verify compliance with the volatile organic compound and sulfur oxide emission limitations from Source ID 123 in any 12 consecutive month period.
- (c) The test reports and supporting calculations used to verify compliance with the volatile organic compound emission limitation from Source ID 123 and the volatile organic compound destruction efficiency requirement of ID C123.
- (d) The supporting calculations used to verify compliance with the throughput limitation of Source ID 123,
- (e) The supporting calculations used to verify compliance with the particulate matter emission limitation of Source ID 123, and
- (f) The outlet temperature of ID C123 on a continuous basis.

These records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

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

[Additional authority for this permit condition is derived from the Request for Determination eRFD 9025 authorized on April

**SECTION D. Source Level Requirements**

27, 2021]

The combustion temperature of ID C123 shall be maintained at no less than 1,400°F at all times during the operation of the oven of Source ID 123.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from the Request for Determination eRFD 9025 authorized on April 27, 2021]

The permittee shall not operate Source ID 123 without the simultaneous operation of ID C123.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from the Request for Determination eRFD 9025 authorized on April 27, 2021]

The atmosphere of Source ID 123 shall operate under an EXO gas or nitrogen atmosphere at any time that Source ID 123 is operational.

VII. ADDITIONAL REQUIREMENTS.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

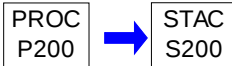
Source ID 123 is an Abbott Furnace Model# 8ZSCR-12P420HH8-2200 heat treat oven. The air contaminant emissions from Source ID 123 shall be controlled by a natural gas-fired thermal oxidizer, incorporated into the design of the oven with a rated heat input of 0.28 MMBtu/hr (0.25 MMBtu/hr main burner + 0.03 MMBtu/hr pilot burner) (herein ID C123).

**SECTION D. Source Level Requirements**

Source ID: P200

Source Name: GRAPHITE COATING (SHOP FLOOR)

Source Capacity/Throughput:

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this condition is derived from the Request For Determination dated April 2, 2020]

The total combined volatile organic compounds emissions from the graphite coating application process shall not equal or exceed 7.83 tons in any 12 consecutive month period.

Throughput Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this condition is derived from the Request For Determination dated April 2, 2020]

The permittee shall not use more than 2640 gallons of coating in any 12 consecutive month period, as proposed in the Request for Determination.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this condition is derived from the Request For Determination dated April 2, 2020]

(a) The permittee shall keep comprehensive and accurate records of the amount of coating each month and the volatile organic compounds emissions each month to demonstrate compliance with the material throughput and emission limitations.

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

V. REPORTING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this condition is derived from the Request For Determination dated April 2, 2020]

The permittee shall report the volatile organic compound emissions from this operation with the annual AIMS report

**SECTION D. Source Level Requirements**

submitted by March 1st each year.

VI. WORK PRACTICE REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this condition is derived from the Request For Determination dated April 2, 2020]

- (a) The coating shall be applied by hand only and shall not be sprayed on the surface.
- (b) All containers of volatile organic compound-containing material shall be kept closed when not in actual use.

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source P200 is a graphite coating operation performed on the shop floor.



SECTION E. Source Group Restrictions.

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this State Only facility.

**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.

**SECTION H. Miscellaneous.**

(1) The following air contaminant sources are considered to be insignificant emission sources and have been determined to be exempt from permit requirements. However, this determination does not exempt the sources from compliance with all applicable air quality regulations specified in 25 Pa. Code Chapters 121-145:

- (a) One (1) Pre-bake oven Grieve Model HB850, ID 2845, Coke SiC - CO₂ Molding Department
- (b) One (1) Fume Hood, Quality Control
- (c) One (1) Fume Hood, collector shall vent internally, Alcohol Rinse Station
- (d) Multiple Lapper Machines
- (e) One (1) Storage Tanks, Aqueous Cleaning Solution, 2,000 Gallons
- (f) Four (4) Sand Blasting Stations with Integral Filter Collector (vents internally), Station equipped with view port and glove box
- (g) Two (2) Dust Collectors, collectors shall vent internally, PTS molding area
- (h) One (1) Dust Collector, collector shall be vented internally, Press Line area
- (i) One (1) Dust Collector, collector shall vent internally, Torit, B4C Area
- (j) One (1) Dust Collector, collector shall vent internally, Torit, ID # 3498, Mist Grinding Operation
- (k) One (1) Dust Collector, collector shall vent internally, Torit, 1,000 Ton Press
- (l) Five (5) Mist Collectors, Collects mist from grinding operation and recirculates through aqueous cleaning tank, Grinding Operation
- (m) Two (2) Jet Sieves with Integral Filter Collector, collector shall vent internally
- (n) Four (4) Blending Systems with Central Dust Collection System, collector shall vent internally
- (o) One (1) Band saw, saw shall be vented internally, Near Graphite Process
- (p) Six (6) Central vacuums, shall vent internally, (2) armor operations, (1) Purbide, (1) pressline, (1) PTS molding, and (1) BAC
- (q) Three (3) Acetylene Torches-
- (r) Twenty-three (23) vacuum furnaces, Electric Powered
- (s) One (1) Chem Free, Smart Washer (28-1 and 25-2)
- (t) One Despatch Oven 2063 electric oven to dry a water-based coating operation
- (u) One (1) Harper semi-batch sintering furnace, electric powered

(2) Revision No. 1 issued on August 30, 2012 incorporates conditions of approval from eRFD #2863.

(3) Revision No. 2 issued on October 7, 2021, pursuant to the minor modification procedures, incorporated conditions of approval and sources approved via eRFD 8782 (oven incorporated into Source ID 122) and eRFD 9025 (new oven as new Source ID 123) and removal of Source ID 109.

(4) Revision No. 3, issued on December 7, 2022, revised the Responsible Official pursuant to the Administrative Amendment procedures specified in 25 Pa. Code Section 127.450.



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