



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

STATE ONLY NATURAL MINOR OPERATING PERMIT

Issue Date:	May 14, 2019	Effective Date:	August 9, 2022
Revision Date:	August 9, 2022	Expiration Date:	May 14, 2024
Revision Type:	Amendment		

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: 04-00061

Natural Minor

Federal Tax Id - Plant Code: 84-3255726-1

Owner Information

Name: NALCO PROD LLC
Mailing Address: 125 NALCO WAY
ELLWOOD CITY, PA 16117-4129

Plant Information

Plant: NALCO PROD LLC/NORTH SOUTH PLT
Location: 04 Beaver County 04930 Franklin Township
SIC Code: 2899 Manufacturing - Chemical Preparations, Nec

Responsible Official

Name: DAN HOOVER
Title: PLANT MGR
Phone: (724) 752 - 6200 Email: dhoover@ecolab.com

Permit Contact Person

Name: CARRIE R BIRCKBICHLER-SMITH
Title: EH&S MGR
Phone: (724) 752 - 5047 Email: cbirckbichler@ecolab.com

[Signature] _____
MARK R. GOROG, P.E., ENVIRONMENTAL PROGRAM MANAGER, SOUTHWEST REGION



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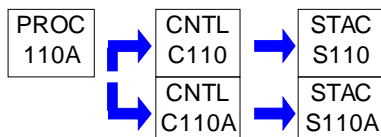
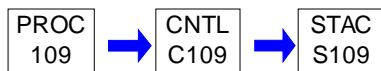
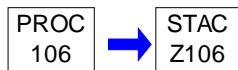
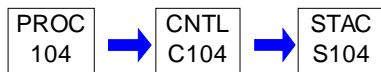
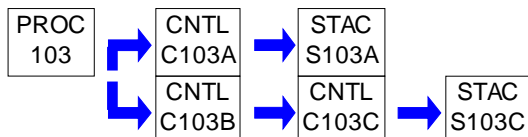
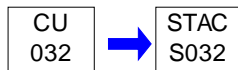
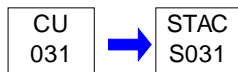
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**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
031	NORTH PLANT BOILER ROOM	9.960 MMBTU/HR	
		9.760 MCF/HR	Natural Gas
032	SOUTH PLANT BOILER ROOM	8.000 MMBTU/HR	
		7.840 MCF/HR	Natural Gas
103	BIOCIDE BLENDING PROCESS (NORTH)	N/A	
104	NORTH PLT BULK STORAGE TANKS	N/A	
106	LINE 6: SOLUTION POLYMER LINE (NORTH)	N/A	
109	LINE 4&5: SOLUTION POLYMERS LINE (NORTH)	N/A	
110A	LINE 7: BLENDS LINE (NORTH)	N/A	
110B	LINE 7: COSMETIC POLYMERS LINE (NORTH)	N/A	
113	LINE 8&9: LATEX POLYMERS LINE (NORTH)	N/A	
114I	INCOMING RAILCAR LOADING	N/A	
201	LIQUID BLEND PROCESS/STORAGE AREA (SOUTH)	N/A	
202	FURNACE ROOM PROCESS (SOUTH)-2 FURNACES	10.000 MMBTU/HR	
		1.000 Tons/HR	
		9.800 MCF/HR	Natural Gas
203	SMALL CONTAINER FILLING OPERATION (SOUTH)	N/A	
P114A	TANK 1 SODIUM HYPOCHLORITE 10,000 GAL.	N/A	
P114B	TANK 2 HYDROXIDE TANK 7,000 GAL	N/A	
P114C	TANK 3 SODIUM BROMIDE 10,000 GAL	N/A	
P114D	REACTOR VESSEL 1 STABILIZER SOLN. W/SULFAMIC ACID 3,000 GAL.	N/A	
P114E	REACTOR VESSEL 2 STABILIZATION SOLN W/BLEACH 6,000 GAL.	N/A	
C103A	BIOCIDE BLENDING PROCESS CARBON CANISTER A		
C103B	BIOCIDE BLENDING PROCESS DUST COLLECTOR (TANK 408)		
C103C	BIOCIDE BLENDING PROCESS CARBON CANISTER (TANK 408)		
C104	NORTH PLANT STORAGE TANKS CARBON CANISTERS		
C109	LINE 4&5: SOLUTION POLYMERS LINE CARBON CANISTER		
C110	LINE 7: THERMAL OXIDIZER		
C110A	BLEND LINE CARBON CANISTERS		
C113	LINE 8&9 LATEX POLYMER LINE CARBON CANISTERS		
C114DE	MIST ELIMINATOR TYPE - MESH PAD PACKED TOWER SCRUBBER		
C114I	INCOMING RAILCAR SAFETY SCRUBBER		
C201	LIQUID BLENDS CAUSTIC SCRUBBER		
C202D	BAGHOUSE RATED AT 15,750 ACFM @150F		
S031	NORTH PLANT BOILER ROOM STACKS (2)		
S032	SOUTH PLANT BOILER ROOM STACKS		
S103A	BIOCIDE BLENDING PROCESS CARBON CANISTER		

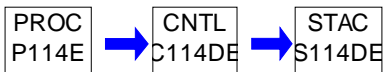
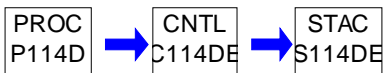
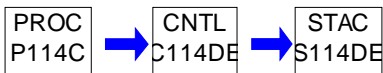
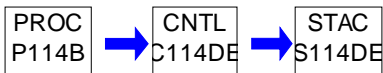
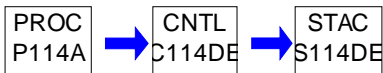
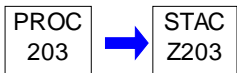
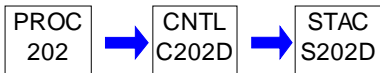
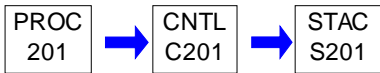
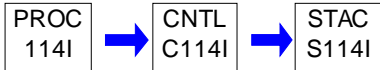
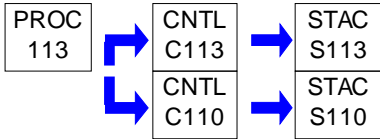
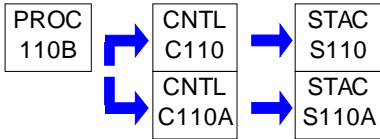
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
A			
S103C	BIOCIDE BLENDING PROCESS CARBON CANISTER (TANK 408)		
S104	NORTH PLANT BULK STORAGE TANKS FUGITIVE EMISSIONS		
S109	LINE 4&5: CARBON CANISTER FUGITIVE EMISSIONS		
S110	LINE 7: THERMAL OXIDIZER STACK		
S110A	BLENDS LINE CARBON CANISTER STACK		
S113	LINE 8&9: CARBON CANISTERS FUGITIVE EMISSIONS		
S114DE	MIST ELIMINATOR TYPE - MESH PAD PACKED TOWER SCRUBBER STACK		
S114I	INCOMING RAIL CAR SAFETY SCRUBBER STACK		
S201	LIQUID BLEND PROCESS STACK		
S202D	BAGHOUSE C202D - STACK		
Z106	LINE 6: SOLUTION POLYMERS LINE FUGITIVE EMISSIONS		
Z203	SMALL CONTAINER FILLING OPERATION FUGITIVE EMISSIONS		

PERMIT MAPS



PERMIT MAPS



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

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

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

(a) This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit.

(b) The terms and conditions of the expired permit shall automatically continue pending issuance of a new operating permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit.

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

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

(b) The application for permit renewal shall include the current permit number, a description of any permit revisions that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.

(c) The permittee shall submit with the renewal application a fee for the processing of the application as specified in 25 Pa. Code § 127.703(b). The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.

(d) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413.

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

(f) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information as necessary to address any requirements that become applicable to the source after the permittee submits a complete application, but prior to the date the Department takes action on the permit application.

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

(b) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

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

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

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

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

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

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

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

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

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

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

(b) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act or regulations adopted thereunder including denying the Department access to a source at this facility. Refusal of entry or access may constitute grounds for permit revocation and assessment of criminal and/or civil penalties.

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

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

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

**SECTION B. General State Only Requirements**

- (1) Enforcement action
- (2) Permit termination, revocation and reissuance or modification
- (3) Denial of a permit renewal application

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

(c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this State-Only permit. Nothing in this sub-condition shall be construed to create an independent affirmative duty upon the permittee to obtain a predetermination from the Department for physical configuration or engineering design detail changes made by the permittee.

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

(e) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

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

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

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

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

(1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.

(2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

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

(c) Except as provided below in (d), the permittee is authorized to make de minimis emission increases (expressed in tons per year) up to the following amounts without the need for a plan approval or prior issuance of a permit modification:

(1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.

(2) One ton of NO_x from a single source during the term of the permit and 5 tons of NO_x at the facility during the term of the permit.

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

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

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

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

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

**SECTION B. General State Only Requirements**

- (1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.
 - (2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.
 - (3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code §123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.
 - (4) Space heaters which heat by direct heat transfer.
 - (5) Laboratory equipment used exclusively for chemical or physical analysis.
 - (6) Other sources and classes of sources determined to be of minor significance by the Department.
- (e) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:
- (1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (c)(4) and (5) of this permit condition.
 - (2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.
 - (3) Violate any applicable requirement of this permit, the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.
- (f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.
- (g) Except for de minimis emission increases, installation of minor sources made pursuant to this permit condition and Plan Approval Exemptions under 25 Pa. Code § 127.14 (relating to exemptions), the permittee is prohibited from making changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.
- (h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

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

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

- (1) Section 127.14 (relating to exemptions)
- (2) Section 127.447 (relating to alternative operating scenarios)
- (3) Section 127.448 (relating to emissions trading at facilities with Federally enforceable emissions caps)
- (4) Section 127.449 (relating to de minimis emission increases)
- (5) Section 127.450 (relating to administrative operating permit amendments)

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §121.7]****Prohibition of air pollution.**

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

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

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

(1) Construction or demolition of buildings or structures.

(2) Grading, paving and maintenance of roads and streets.

(3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.

(4) Clearing of land.

(5) Stockpiling of materials.

(6) Open burning operations.

(7)-(8) Not applicable.

(9) Sources and classes of sources other than those identified in paragraphs (1)-(8), for which the operator has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:

(i) the emissions are of minor significance with respect to causing air pollution; and

(ii) the emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

(b) An application form for requesting a determination under either subsection (a)(9) or §129.15(c) is available from the Department. In reviewing these applications, the Department may require the applicant to supply information including, but not limited to, a description of proposed control measures, characteristics of emissions, quantity of emissions, and ambient air quality data and analysis showing the impact of the source on ambient air quality. The applicant shall be required to demonstrate that the requirements of subsections (a)(9) and (c) and §123.2 (relating to fugitive particulate matter) or of the requirements of §129.15(c) have been satisfied. Upon such demonstration, the Department will issue a determination, in writing, either as an operating permit condition, for those sources subject to permit requirements under the act, or as an order containing appropriate conditions and limitations.

(c) See Work Practice Standards Requirements.

(d) Not applicable.

003 [25 Pa. Code §123.13]**Processes**

(a) Subsections (b) and (c) apply to all processes except combustion units, incinerators and pulp mill smelt dissolving tanks.

(b) Not applicable.

(c) For processes not listed in subsection (b)(1), including but not limited to, coke oven battery waste heat stacks and

**SECTION C. Site Level Requirements**

autogeneous zinc coker waste heat stacks, the following shall apply:

(1) Prohibited emissions. No person may permit the emission into the outdoor atmosphere of particulate matter from any process not listed in subsection (b)(1) in a manner that the concentration of particulate matter in the effluent gas exceeds any of the following:

(i) .04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

(ii) The rate determined by the formula:

$$A = 6000/E$$

where:

A = Allowable emissions in grains per dry standard cubic foot, and

E = Effluent gas volume in dry standard cubic feet per minute,

when E is equal to or greater than 150,000 but less than 300,000.

(iii) Not applicable.

(2) Not applicable.

(d) Not applicable.

004 [25 Pa. Code §123.2]

Fugitive particulate matter

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in §123.1(a)(1) -- (9) (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

005 [25 Pa. Code §123.31]

Limitations

(a) Limitations are as follows:

(1) If control of malodorous air contaminants is required under subsection (b), emissions shall be incinerated at a minimum of 1,200F for at least 0.3 seconds prior to their emission into the outdoor atmosphere.

(2) Techniques other than incineration may be used to control malodorous air contaminants if such techniques are equivalent to or better than the required incineration in terms of control of the odor emissions and are approved in writing by the Department.

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

(c) Not applicable.

006 [25 Pa. Code §123.41]

Limitations

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

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

**SECTION C. Site Level Requirements**

(2) Equal to or greater than 60% at any time.

007 [25 Pa. Code §123.42]**Exceptions**

The limitations of §123.41 (relating to limitations) shall not apply to a visible emission in any of the following instances:

- (1) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (2) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (3) When the emission results from sources specified in §123.1(a)(1) -- (9) (relating to prohibition of certain fugitive emissions).
- (4) When arising from the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.

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

The emissions from the Schutte and Koerting Scrubber shall not exceed 0.05 lb/hr of total particulate matter, 0.05 lbs/hr PM-10, and 0.05 lbs/hr PM-2.5.

009 [25 Pa. Code §129.14]**Open burning operations**

- (a) Air basins. Not applicable.
- (b) Outside of air basins. No person may permit the open burning of material in an area outside of air basins in a manner that:
 - (1) The emissions are visible, at any time, at the point such emissions pass outside the property of the person on whose land the open burning is being conducted.
 - (2) Malodorous air contaminants from the open burning are detectable outside the property of the person on whose land the open burning is being conducted.
 - (3) The emissions interfere with the reasonable enjoyment of life or property.
 - (4) The emissions cause damage to vegetation or property.
 - (5) The emissions are or may be deleterious to human or animal health.
- (c) Exceptions: The requirements of subsections (a) and (b) do not apply where the open burning operations result from:
 - (1) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
 - (2) A fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
 - (3) A fire set for the prevention and control of disease or pests, when approved by the Department.
 - (4) A fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.



SECTION C. Site Level Requirements

(5) A fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of such structure.

(6) A fire set solely for recreational or ceremonial purposes.

(7) A fire set solely for cooking food.

(d) Clearing and grubbing wastes. The following is applicable to clearing and grubbing wastes:

(1) As used in this subsection the following terms shall have the following meanings:

Air curtain destructor -- A mechanical device which forcefully projects a curtain of air across a pit in which open burning is being conducted so that combustion efficiency is increased and smoke and other particulate matter are contained.

Clearing and grubbing wastes -- Trees, shrubs, and other native vegetation which are cleared from land during or prior to the process of construction. The term does not include demolition wastes and dirt laden roots.

(2) Subsection (a) notwithstanding, clearing and grubbing wastes may be burned in a basin subject to the following requirements:

(i) Air curtain destructors shall be used when burning clearing and grubbing wastes.

(ii) Each proposed use of air curtain destructors shall be reviewed and approved by the Department in writing with respect to equipment arrangement, design and existing environmental conditions prior to commencement of burning. Proposals approved under this subparagraph need not obtain plan approval or operating permits under Chapter 127 (relating to construction modification, reactivation and operation of sources).

(iii) Approval for use of an air curtain destructor at one site may be granted for a specified period not to exceed 3 months, but may be extended for additional limited periods upon further approval by the Department.

(iv) The Department reserves the right to rescind approval granted if a determination by the Department indicates that an air pollution problem exists.

(3) Subsection (b) notwithstanding clearing and grubbing wastes may be burned outside of an air basin, subject to the following limitations:

(i) Upon receipt of a complaint or determination by the Department that an air pollution problem exists, the Department may order that the open burning cease or comply with subsection (b) of this section.

(ii) Authorization for open burning under this paragraph does not apply to clearing and grubbing wastes transported from an air basin for disposal outside of an air basin.

(4) During an air pollution episode, open burning is limited by Chapter 137 (relating to air pollution episodes) and shall cease as specified in such chapter.

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.

010 [25 Pa. Code §123.43]

Measuring techniques

Visible emissions may be measured using either of the following:

**SECTION C. Site Level Requirements**

(1) A device approved by the Department and maintained to provide accurate opacity measurements.

(2) Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

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

A facility-wide inspection shall be conducted at a minimum of once per day that the Facility is operated by the Owner/Operator. The facility-wide inspection shall be conducted for the presence of the following:

- a. Visible stack emissions;
- b. Fugitive emissions; and
- c. Potentially objectionable odors at the property line.

These observations are to ensure continued compliance with source-specific visible emission limitations, fugitive emissions prohibited under 25 Pa. Code §123.1 or §123.2, and potentially objectionable odors prohibited under 25 Pa. Code §123.31. Observations for visible stack emissions shall be conducted during daylight hours and all observations shall be conducted while sources are in operation. If visible stack emissions, fugitive emissions, or potentially objectionable odors are apparent, the Owner/Operator shall take corrective action.

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

The permittee shall continuously monitor the scrubber liquid flowrate, pH of the scrubber fluid, and the pressure drop across the Schutte and Koerting Scrubber.

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

The permittee shall maintain the following records on a 12-month rolling basis:

- 1.) Records of material throughput;
- 2.) Records of actual emissions of all criteria pollutants and hazardous air pollutants.

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

All records shall be maintained on site or at an alternative location acceptable to the Department for a minimum of five (5) years and made available to the Department upon request.

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

Records of each daily visible stack, fugitive, and potentially objectionable odor inspection shall be maintained in a log and at a minimum include the date, time, name and title of the observer, along with any corrective action taken as a result. These records shall be kept on site or at an alternative location acceptable to the Department for a period of five years and made available to the Department upon request.

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

The permittee shall maintain the following comprehensive and accurate records of Schutte and Koerting Scrubber when operating:

- (1) The scrubber liquid flowrate, in gpm, at a minimum of once per shift.

**SECTION C. Site Level Requirements**

- (2) The make-up scrubber liquid usage, in gpm, at a minimum of once per shift.
- (3) The scrubber water flow rate & make-up water rate shall be monitored, reviewed, and recorded daily.
- (4) The pressure differential across the scrubber, in inches of water, at a minimum of once per shift.
- (5) The pH of the scrubber liquid, at a minimum of once per shift.

017 [25 Pa. Code §135.5]**Recordkeeping**

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

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

Malfunction reporting shall be conducted as follows:

- a.) For the purpose of this condition, a malfunction is defined as any sudden, infrequent, and not reasonable preventable failure of air pollution control equipment or source to operate in a normal or usual manner that may result in an increase in the emission of air contaminants. Examples of malfunctions may include, but are not limited to: large dust plumes, heavy smoke, a spill or release that results in a malodor that is detectable outside the property on whose land the source is being operated.
- b.) Any malfunction that poses an imminent danger to the public health, safety, or welfare or to the environment shall be reported by telephone to the County Emergency Management Agency (911 Center) and to the 24-hour Emergency Hotline of the appropriate DEP Regional Office (Phone 412-442-4000) no later than one hour after the discovery of an incident. Following the telephone notification, a written notice shall be submitted to the DEP no later than the next business day.
- c.) All other malfunctions shall be reported to the Department no later than the next business day.
- d.) Initial reporting of the malfunction shall identify the following items to the extent known:
 - i. Name and location of the facility;
 - ii. Nature and cause of the malfunction;
 - iii. The time when the malfunction or breakdown was first observed;
 - iv. The expected duration of increased emissions; and
 - v. The estimated rate of emissions.
- e.) The Owner/Operator shall also notify the Department immediately, by telephone, when corrective measures for malfunctions meeting the criteria in (b.) have been accomplished.
- f.) All malfunctions shall be reported to the Department by email (addresses will be provided by the Department) or by regular mail at the address below:

Pennsylvania Department of Environmental Protection
Office of Air Quality
400 Waterfront Drive
Pittsburgh, PA 15222-4745
412-442-4000

- g.) If requested by the Department, the Owner/Operator shall submit a full written report to the Department, including final determinations of the times identified in d.), and the corrective measures taken on the malfunction. The report shall be

**SECTION C. Site Level Requirements**

submitted within fifteen (15) days of the Department's request or accomplishing corrective measures, whichever is later.

019 [25 Pa. Code §135.3]**Reporting**

(a) A person who owns or operates a source to which this chapter applies, and who has previously been advised by the Department to submit a source report, shall submit by March 1 of each year a source 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 a source report is necessary shall submit an initial source report within 60 days after receiving the notification or by March 1 of the year following the year for which the report is required, whichever is later.

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

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

(c) A person responsible for any source specified in subsections (a)(1) -- (7) or (9) shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

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

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

(3) Paving and maintenance of roadways.

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

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

The Owner/Operator shall conduct and maintain a record of all preventative maintenance inspections of the air contamination sources and air cleaning devices. These inspections shall include an observation of all pumps, blowers, associated pipelines, fittings, valves, instruments, etc. for leak detection at a minimum of once per month. These records shall contain, at a minimum, the following information:

- i) The date and time of inspection/maintenance;
- ii) Description of any problems or defects;
- iii) Action taken to correct the problem or defect; and
- iv) Any routine maintenance performed.

The Owner/Operator shall take immediate steps to repair any leaks from pumps, blowers, associated pipelines, fittings, valves, instruments, etc.

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

Each carbon adsorption canister shall be changed-out at or before the time it becomes saturated and/or breakthrough occurs. Records of each change-out shall be kept on site or at an alternative location acceptable to the Department for a

**SECTION C. Site Level Requirements**

minimum of five years and shall be made available to the Department upon request.

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

Compliance with mass emission limits established in this operating permit may be demonstrated using engineering calculations based on fuel and raw material purchase records, laboratory analyses, manufacturers specifications, AP-42 emission factors, source test results, operating records, material balance methods, and/or other applicable methods, with written Department approval.

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

The Owner/Operator shall operate all air contamination sources and air cleaning devices at this facility in accordance with the manufacturer's specifications.

025 [25 Pa. Code §129.57]**Storage tanks less than or equal to 40,000 gallons capacity containing VOCs**

The provisions of this section shall apply to above ground stationary storage tanks with a capacity equal to or greater than 2,000 gallons which contain volatile organic compounds with vapor pressure greater than 1.5 psia (10.5 kilopascals) under actual storage conditions. Storage tanks covered under this section shall have pressure relief valves which are maintained in good operating condition and which are set to release at no less than .7 psig (4.8 kilopascals) of pressure or .3 psig (2.1 kilopascals) of vacuum or the highest possible pressure and vacuum in accordance with state or local fire codes or the National Fire Prevention Association guidelines or other national consensus standards acceptable to the Department. Section 129.56(g) (relating to storage tanks greater than 40,000 gallons capacity containing volatile organic compounds) applies to this section. Petroleum liquid storage vessels which are used to store produced crude oil and condensate prior to lease custody transfer shall be exempt from the requirements of this section.

VII. ADDITIONAL REQUIREMENTS.**# 026 [25 Pa. Code §127.11]****Plan approval requirements.**

Except as provided in §127.11a and §127.215 (relating to reactivation of sources; and reactivation), a person may not cause or permit the construction or modification of an air contamination source, the reactivation of an air contamination source after the source has been out of operation or production for 1 year or more, or the installation of an air cleaning device on an air contamination source, unless the construction, modification, reactivation or installation has been approved by the Department.

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

If, at any time, the Department has cause to believe that air contaminant emissions from the sources listed in this state-only operating permit may be in excess of the limitations specified in, or established pursuant to the permittee's state-only operating permit or plan approval, the permittee may be required to conduct test methods and procedures deemed necessary by the Department to determine the actual emissions rate. Such testing shall be conducted in accordance with Title 25 PA Code Chapter 139, where applicable, and in company accordance with any restrictions or limitations established by the Department at such time as it notifies the that testing is required.

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.

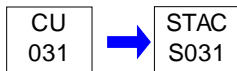
**SECTION D. Source Level Requirements**

Source ID: 031

Source Name: NORTH PLANT BOILER ROOM

Source Capacity/Throughput: 9.960 MMBTU/HR

9.760 MCF/HR Natural Gas

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

(a) A person may not permit the emission into the outdoor atmosphere of particulate matter from a combustion unit in excess of the following:

(1) The rate of 0.4 pound per million Btu of heat input, when the heat input to the combustion unit in millions of Btus per hour is greater than 2.5 but less than 50.

(2)-(3) Not applicable.

(b) Not applicable.

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

(a) Nonair basin areas. Combustion units in nonair basin areas shall conform with the following:

(1) General provision. No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from a combustion unit in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period except as provided for in paragraph (4).

(2) - (4) Not applicable.

(b) - (e) Not applicable.

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.**

The Owner/Operator shall maintain records of fuel usage on a 12-month rolling basis. These records shall include records of fuel usage, fuel specifications, maintenance of equipment, or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. These records shall be kept on site or at an alternative location acceptable to the Department for a period of five years and be made available to the

**SECTION D. Source Level Requirements**

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.

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

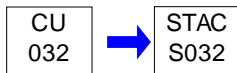
**SECTION D. Source Level Requirements**

Source ID: 032

Source Name: SOUTH PLANT BOILER ROOM

Source Capacity/Throughput: 8.000 MMBTU/HR

7.840 MCF/HR Natural Gas

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

(a) A person may not permit the emission into the outdoor atmosphere of particulate matter from a combustion unit in excess of the following:

(1) The rate of 0.4 pound per million Btu of heat input, when the heat input to the combustion unit in millions of Btus per hour is greater than 2.5 but less than 50.

(2) - (3) Not applicable.

(b) Not applicable.

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

(a) Nonair basin areas. Combustion units in nonair basin areas shall conform with the following:

(1) General provision. No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from a combustion unit in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period except as provided for in paragraph (4).

(2) - (4) Not applicable.

(b) - (e) Not applicable.

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.**

The Owner/Operator shall maintain records of fuel usage on a 12-month rolling basis. These records shall include records of fuel usage, fuel specifications, maintenance of equipment, or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. These records shall be kept on site or at an alternative location acceptable to the Department for a period of five years and be made available to the

**SECTION D. Source Level Requirements**

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.

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

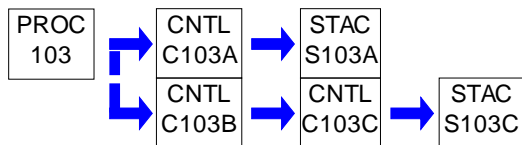
**SECTION D. Source Level Requirements**

Source ID: 103

Source Name: BIOCIDE BLENDING PROCESS (NORTH)

Source Capacity/Throughput:

N/A

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pressure drop readings of the baghouse shall be monitored and recorded on a monthly basis.

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.

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

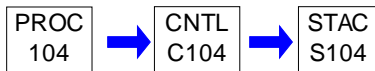
**SECTION D. Source Level Requirements**

Source ID: 104

Source Name: NORTH PLT BULK STORAGE TANKS

Source Capacity/Throughput:

N/A

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

The emissions from the Isothisazolin product from Tank No. 704 shall not result in emission increases above the allowable limits in the operating permit and shall not result in an increased ambient air quality impact for an air contaminant.

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

The VOC and HAPs emissions from Tank No. 704 vessel shall be controlled by a 55-gallon VENTSORB carbon canister(C704) containing 180 pounds of activated carbon (or equivalent).

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.**

The Owner/Operator shall maintain comprehensive and accurate records of the isothiazolin product throughput on a 12-month rolling basis. These records shall be maintained on site or at an alternative location acceptable to the Department for a minimum of five years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

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

All air contaminant sources, and air cleaning devices utilized in storing and handling isothiazolin product shall be installed, operated, and maintained according to the manufacturer's recommended specifications.



SECTION D. Source Level Requirements

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

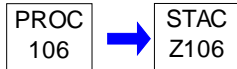
Source ID: 106

Source Name: LINE 6: SOLUTION POLYMER LINE (NORTH)

Source Capacity/Throughput:

N/A

Conditions for this source occur in the following groups: BATCH REACTION PROCESSES

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

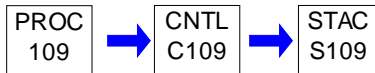
Source ID: 109

Source Name: LINE 4&5: SOLUTION POLYMERS LINE (NORTH)

Source Capacity/Throughput:

N/A

Conditions for this source occur in the following groups: BATCH REACTION PROCESSES

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

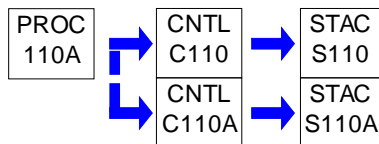
Source ID: 110A

Source Name: LINE 7: BLENDS LINE (NORTH)

Source Capacity/Throughput:

N/A

Conditions for this source occur in the following groups: BATCH REACTION PROCESSES



This source occurs in alternate operation METHYL ACRYLATE

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

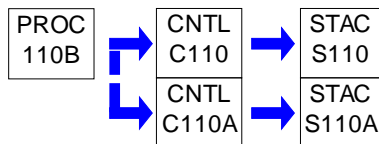
Source ID: 110B

Source Name: LINE 7: COSMETIC POLYMERS LINE (NORTH)

Source Capacity/Throughput:

N/A

Conditions for this source occur in the following groups: BATCH REACTION PROCESSES



This source occurs in alternate operation METHYL ACRYLATE

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

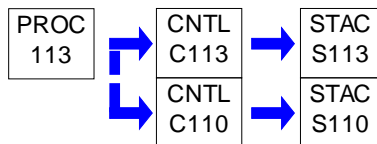
Source ID: 113

Source Name: LINE 8&9: LATEX POLYMERS LINE (NORTH)

Source Capacity/Throughput:

N/A

Conditions for this source occur in the following groups: BATCH REACTION PROCESSES

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

Emissions from the new product (A16B1) shall not result in emission increases above the allowable in the operating permit and shall not result in an increased ambient air quality impact for an air contaminant.

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

The emissions from the Monomer tank shall be controlled by the existing Line 7 thermal oxidizer C110 rated at 0.96 MMBtu/hr.

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

The VOC and HAP emissions from Line 8 Reactor Vessel shall be controlled by the existing carbon canisters C113.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

The Owner/Operator shall maintain the following comprehensive and accurate records for this source:

- 1.) The incoming A16B1 ingredient quantities;
- 2.) The amount of A16B1 production;
- 3.) Emissions of air contaminants on a monthly basis and on a 12-month rolling basis.

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

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

VI. WORK PRACTICE REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

All air contaminant sources and air cleaning devices utilized in making the A16B1 product shall be installed, operated, and maintained per the manufacturer's recommended specifications.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The new product A16B1 shall be made on the existing Line 8 which is a part of Source 113.

VII. ADDITIONAL REQUIREMENTS.

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

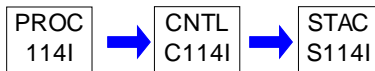
**SECTION D. Source Level Requirements**

Source ID: 114I

Source Name: INCOMING RAILCAR LOADING

Source Capacity/Throughput:

N/A

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain the comprehensive and accurate records of each event when a railcar or truck is vented to the Incoming Railcar Safety Scrubber.

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.

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

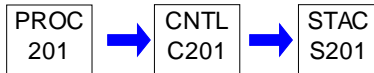
**SECTION D. Source Level Requirements**

Source ID: 201

Source Name: LIQUID BLEND PROCESS/STORAGE AREA (SOUTH)

Source Capacity/Throughput:

N/A

**I. RESTRICTIONS.**

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

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

The Owner/Operator shall take a sample of the caustic scrubber solution prior to each batch. The caustic scrubber solution shall be maintained at a concentration between 10-20 percent.

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

The Owner/Operator shall establish a minimum temperature for each batch reaction in accordance with good operating practices and monitor the temperature readings of the reactor per batch.

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

The Owner/Operator shall maintain the following records which shall be kept on site or at an alternative location acceptable to the Department for a minimum of five years and shall be made available to the Department upon request:

- 1.) Records of the actual temperature for each batch reaction as required in Section D, Source 201, Condition #002 above.
- 2.) Records of each caustic solution sample and actions taken to adjust the caustic solution concentration.

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.

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

**SECTION D. Source Level Requirements**

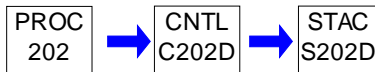
Source ID: 202

Source Name: FURNACE ROOM PROCESS (SOUTH)-2 FURNACES

Source Capacity/Throughput: 10.000 MMBTU/HR

1.000 Tons/HR

9.800 MCF/HR Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.21]****General**

(a) This section applies to sources except those subject to other provisions of this article, with respect to the control of sulfur compound emissions.

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

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 Owner/Operator shall maintain records of fuel usage on a 12-month rolling basis. These records shall include records of fuel usage, fuel specifications, maintenance of equipment, or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. These records shall be kept on site or at an alternative location acceptable to the Department for a period of five years and be made available to the Department upon request.

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

Pressure drop readings of the baghouse shall be monitored and recorded on a monthly basis.

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

Per plan approval PA-04-00061B, a copy of the manufacturer's recommended maintenance schedule for the Flex-Kleen baghouse shall be kept on site and records of all maintenance, including corrective actions taken, shall be kept.

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

Per plan approval PA-04-00061B, the owner/operator shall operate the proposed Flex-Kleen baghouse per the manufacturer's specification and maintain per manufacturer's recommended maintenance schedule.

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

The Terrasource Sizer/Screen and packaging equipment shall not operate unless the associated baghouse is operating properly.

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

The Furnace Room Process (South) shall not operate unless the associated baghouse is operating properly.

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

The Owner/Operator shall perform preventative maintenance inspections on the fabric collector and maintain a Preventative Maintenance Log documenting the preventative maintenance inspection schedule, preventative maintenance inspection procedures, observations and corrective actions. Preventative maintenance inspections and records shall include, but not be limited to, the following:

(a) On a daily basis, prior to startup, operator shall:

- Drain any water buildup in the compressed air tank;
- Check oil level and add as necessary;
- Once started, check magnehelic gauge to ensure that the pressure drop across the collector is within the normal range;
- Observe dust collection hopper and empty if necessary; and
- Read and record pressure differential across the fabric collector when in operation.

(b) On a weekly basis, maintenance shall include the following:

- Check magnehelic gauge;
- Grease blower shaft bearings;
- Check belts and sheave on fan and motor;
- Check air leaks on reverse jet air purge system;
- Check exhaust stack for any visible emissions;
- Visually check entire collector for any apparent abnormalities.

(c) On a monthly basis, maintenance shall include the following:

- Perform all of the weekly inspections noted above;
- Change the oil in the air compressor;
- Grease motor bearings in the fan;
- Clean/replace air filters on the air compressor;
- Check pop-off valves on air compressor for proper function;
- Check desiccant on air dryer system and add as necessary;
- Visual inspection of the fabric collector interior for dislodged bags, bag wear and dust build-up;



SECTION D. Source Level Requirements

- Verification that the pressure differential gauge is functioning, and the connecting lines are free of obstructions, verification that the fabric collector and immediate duct work are free of leaks, verification that the bag cleaning mechanism, fans and timing controls are operational; and
- Record fabric collector fan current.

(d) Annual Inspection:

- Thorough annual inspection of the dust collection system, including the fabric collector housing and all associated duct work for wear or leakage, inspection of the fabric collector cleaning mechanism.

(e) Review of the previously documented maintenance data for developing trends or indication that the fabric collector is not functioning as designed shall be included as part of the annual inspection of the fabric collector.

(f) Records of all preventative maintenance inspections listed above shall be recorded in the Preventative Maintenance Log.

VII. ADDITIONAL REQUIREMENTS.

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

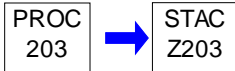
**SECTION D. Source Level Requirements**

Source ID: 203

Source Name: SMALL CONTAINER FILLING OPERATION (SOUTH)

Source Capacity/Throughput:

N/A

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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.

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

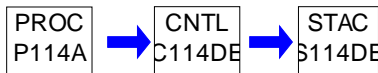
**SECTION D. Source Level Requirements**

Source ID: P114A

Source Name: TANK 1 SODIUM HYPOCHLORITE 10,000 GAL.

Source Capacity/Throughput:

N/A

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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.

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

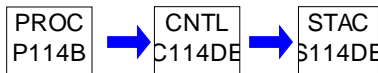
**SECTION D. Source Level Requirements**

Source ID: P114B

Source Name: TANK 2 HYDROXIDE TANK 7,000 GAL

Source Capacity/Throughput:

N/A

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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.

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

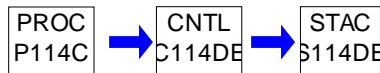
**SECTION D. Source Level Requirements**

Source ID: P114C

Source Name: TANK 3 SODIUM BROMIDE 10,000 GAL

Source Capacity/Throughput:

N/A

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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.

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

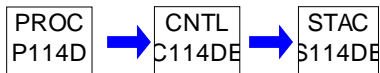
**SECTION D. Source Level Requirements**

Source ID: P114D

Source Name: REACTOR VESSEL 1 STABILIZER SOLN. W/SULFAMIC ACID 3,000 GAL.

Source Capacity/Throughput:

N/A

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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.

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

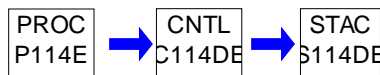
**SECTION D. Source Level Requirements**

Source ID: P114E

Source Name: REACTOR VESSEL 2 STABILIZATION SOLN W/BLEACH 6,000 GAL.

Source Capacity/Throughput:

N/A

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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.

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

**SECTION E. Source Group Restrictions.**

Group Name: BATCH REACTION PROCESSES

Group Description: Process Line Requirements

Sources included in this group

ID	Name
106	LINE 6: SOLUTION POLYMER LINE (NORTH)
109	LINE 4&5: SOLUTION POLYMERS LINE (NORTH)
110A	LINE 7: BLENDS LINE (NORTH)
110B	LINE 7: COSMETIC POLYMERS LINE (NORTH)
113	LINE 8&9: LATEX POLYMERS LINE (NORTH)

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

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

The Owner/Operator shall establish a minimum temperature for each batch reaction in accordance with good operating practices and monitor the temperature readings of the reactor per batch.

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

Records of the actual temperature for each batch reaction shall be kept on site or at an alternative location acceptable to the Department for a minimum of five years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION F. Alternative Operation Requirements.**

Alternative Operation Name: METHYL ACRYLATE

#001 CHANGES FROM NORMAL OPERATION

Use of thermal oxidizer

Sources included in this Alternative Operation:

ID	Name	Source Type
110B	LINE 7: COSMETIC POLYMERS LINE (NORTH)	Process

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §123.21]****General**

(a) Not applicable.

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

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

The thermal oxidizer shall maintain a minimum destruction temperature of 1,500 degree Fahrenheit during operation.

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

The thermal oxidizer shall be operated when methyl acrylate is being used in Line 7: Cosmetic Polymers Line.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

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

The Owner/Operator shall maintain records of fuel usage on a 12-month rolling basis. These records shall include records of fuel usage, fuel specifications, maintenance of equipment, or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. These records shall be kept on site or at an alternative location acceptable to the Department for a period of five years and be made available to the Department upon request.

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

(a) The temperature of the thermal oxidizer shall be continuously monitored and recorded manually every hour during periods of operation.

(b) Records of the temperature readings shall be kept on site or at an alternative location acceptable to the Department for a period of five years and made available to the Department upon request.



SECTION F. Alternative Operation 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) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION F. Alternative Operation Requirements.**

Alternative Operation Name: METHYL ACRYLATE

#001 CHANGES FROM NORMAL OPERATION

Use of thermal oxidizer

Sources included in this Alternative Operation:

ID	Name	Source Type
110A	LINE 7: BLENDS LINE (NORTH)	Process

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §123.21]****General**

(a) Not applicable.

(b) No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The thermal oxidizer shall be operated when methyl acrylate is being used in Line 7: Blends Line.

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

The thermal oxidizer shall maintain a minimum destruction temperature of 1,500 degrees Fahrenheit during operation.

II. TESTING REQUIREMENTS.

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

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

(a) The temperature of the thermal oxidizer shall be continuously monitored and recorded manually every hour during periods of operation.

(b) Records of the temperature readings shall be kept on site or at an alternative location acceptable to the Department for a period of five years and made available to the Department upon request.

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

The Owner/Operator shall maintain records of fuel usage on a 12-month rolling basis. These records shall include records of fuel usage, fuel specifications, maintenance of equipment, or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. These records shall be kept on site or at an alternative location acceptable to the Department for a period of five years and be made available to the Department upon request.



SECTION F. Alternative Operation 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) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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



SECTION G. Emission Restriction Summary.

Alternative Operation Emission Restriction Summary
No emission restrictions listed in this section of the permit.

Source Id	Source Description
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**SECTION H. Miscellaneous.**

North Plant:

Source 031, North Plant Boiler Room, consists of the following equipment:

- One Cleaver Brooks (CB-700-238-150) 9.96 MMBtu/hr natural gas-fired boiler installed in 2006; and
- One Johnston Boiler Co. (PFTA238-4LG1505) 9.74 MMBtu/hr natural gas-fired boiler installed in 2012.

Source 103, Biocide Blending Process, consists of the following equipment:

- Blender 1: 5,500 gallons; carbon canister
- Blender 2: 5,500 gallons; carbon canister
- Blender 3: 2,200 gallons; carbon canister
- 408, DBNPA Blend: 7,800 gallons; dust collector and carbon canister
- Tank 701, a 5,900-gallon process tank (isothiazolin) venting to the atmosphere.

Source 104: North Plant Bulk Storage Tanks

- Sodium Hydroxide Storage Tank (135): 5,400 gallons; vents to atmosphere
- Water Soluble Polymer Storage Tank (200): 14,100 gallons; vents to atmosphere
- Acrylamide Storage Tank (201): 14,000 gallons; carbon canister
- Water Soluble Polymer Storage Tank (202): 23,500 gallons; vents to atmosphere
- Water Soluble Polymer Storage Tank (203): 23,500 gallons; vents to atmosphere
- Water Soluble Polymer Storage Tank (204): 23,500 gallons; vents to atmosphere
- Water Soluble Polymer Storage Tank (205): 23,500 gallons; vents to atmosphere
- Tank 206: 5,500 gallons; vents to atmosphere
- Epi-DMA Polymer Storage Tank (207): 5,500 gallons; vents to atmosphere
- Water Soluble Polymer Storage Tank (208): 5,500 gallons; vents to atmosphere
- Water Soluble Polymer Storage Tank (209): 5,500 gallons; vents to atmosphere
- Aluminum Chlorohydrate Blend Storage Tank (210): 5,500 gallons; vents to atmosphere
- DADMAC Monomer Storage Tank (211): 4,650 gallons; vents to atmosphere
- DADMAC Monomer Storage Tank (212): 4,650 gallons; vents to atmosphere
- Water Soluble Polymer Storage Tank (213): 5,500 gallons; vents to atmosphere
- Water Soluble Polymer Storage Tank (214): 5,500-gallons; vents to atmosphere
- Acrylic Acid Storage Tank (215): 7,100 gallons; carbon canister
- Water Soluble Polymer Storage Tank (216): 5,800 gallons; vents to atmosphere
- Polyethylene Glycol Mixture (408): 7,500-gallons; vents to atmosphere
- Propylene Glycol Storage Tank (409): 5,600 gallons; vents to atmosphere
- Ferric Chloride Storage Tank (416): 7,100 gallons; vents to atmosphere
- Isothiazolin Storage Tank (702): 7,300 gallons; carbon canister
- Glutaraldehyde Storage Tank (703): 7,300 gallons; carbon canister
- Isothiazolin Storage Tank (704): 7,350 gallons; vents to atmosphere
- Aluminum chlorohydrate blend (705): 13,900-gallons; vents to atmosphere
- Acrylamide Storage Tank (301): 11,000 gallons; carbon canister
- Latex Polymer Storage Tank (315): 11,500 gallons; vents to atmosphere
- Latex Polymer Storage Tank (316): 13,500 gallons; vents to atmosphere
- Latex Polymer Storage Tank (317): 13,500 gallons; vents to atmosphere
- Latex Polymer Storage Tank (318): 13,500 gallons; vents to atmosphere
- Latex Polymer Storage Tank (319): 13,500 gallons; vents to atmosphere
- Nonhazardous Emulsifier (AETAC Monomer Storage Tank) (320): 9,000 gallons; vents to atmosphere
- DADMAC Monomer Storage Tank (321): 5,500 gallons; vents to atmosphere
- Sodium Hydroxide Storage Tank (322): 5,100 gallons; vents to atmosphere
- Surfactant Storage Tank (323): 1,700 gallons; vents to atmosphere
- Surfactant Storage Tank (324): 1,700 gallons; vents to atmosphere
- Latex Polymer Storage Tank (325): 9,700 gallons; vents to atmosphere
- Latex Polymer Storage Tank (326): 9,700 gallons; vents to atmosphere
- Latex Polymer Storage Tank (327): 9,700 gallons; vents to atmosphere
- Latex Polymer Storage Tank (328): 9,700 gallons; vents to atmosphere
- Latex Polymer Storage Tank (329): 9,700 gallons; vents to atmosphere
- Latex Polymer Storage Tank (330): 9,700 gallons; vents to atmosphere

**SECTION H. Miscellaneous.**

- Straight Run Middle Distillate Storage Tank (331): 18,347 gallons; vents to atmosphere
- Surfactant Storage Tank (314): 5,600 gallons; vents to atmosphere
- Hydrotreated Light Distillate Storage Tank (334): 19,100 gallons; vents to atmosphere
- Latex Polymer Storage Tank (335): 14,000 gallons; vents to atmosphere
- Water Soluble Polymer Storage Tank (336): 14,000 gallons; vents to atmosphere
- Water Soluble Polymer Storage Tank (337): 14,000 gallons; vents to atmosphere
- Latex Polymer Storage Tank (338): 14,000 gallons; vents to atmosphere
- Latex Polymer Storage Tank (339): 14,000 gallons; vents to atmosphere
- Latex Polymer Storage Tank (340): 14,000 gallons; vents to atmosphere
- Peroxide Water Storage Tank (349): 5,000 gallons; vents to atmosphere
- Peroxide Water Storage Tank (350): 4,000 gallons; vents to atmosphere
- Peroxide Water Storage Tank (351): 4,000 gallons; vents to atmosphere
- Water Soluble Polymer (355): 13,500-gallons; vents to atmosphere
- Sodium Bromide Chloride/Sodium Hypochlorite Blend (636): 15,000-gallons; vents to atmosphere
- Sodium Bromide Chloride/Sodium Hypochlorite Blend (637): 15,000-gallons; vents to atmosphere

Source 106: Line 6 Solution Polymers Line

- Reactor 1: 5,500 gallons; vents to atmosphere
- Dilution Tank: 5,000 gallons; vents to atmosphere

Source 109: Line 4&5 Solution Polymers Line

- Line 4 Reactor: 1,600 gallons; carbon canister
- Line 4 Purge Tank: 1,200 gallons; vents to atmosphere
- Line 5 Reactor: 1,600 gallons; carbon canister
- Line 5 Purge Tank: 1,200 gallons; vents to atmosphere
- Line 5 Hold Tank: 3,550 gallons; vents to atmosphere
- Line 5 Dilution Tank: 2,500 gallons; vents to atmosphere
- Line 5 Blend (Paraben) Tank: 2,200 gallons; vents to atmosphere

Source 110A: Line 7 Blends Line

- Line 7 Reactor: 3,000 gallons; vents to atmosphere or thermal oxidizer (0.96 MMBtu/hr)

Source 110B: Line 7 Cosmetic Polymer Line

- Line 7 Hold Tank: 7,500 gallons; vents to atmosphere, carbon canister, or thermal oxidizer (0.96 MMBtu/hr)

Source 113: Line 8&9 Latex Polymers Line

- Line 8 Mix Tank: 3,000 gallons; vents to atmosphere
- Line 8 Reactor: 3,000 gallons; vents to atmosphere or carbon canister
- Line 8 Post Treat Tank #1: 3,500 gallons; vents to atmosphere
- Line 8 Post Treat Tank #2: 3,500 gallons; vents to atmosphere
- Line 9 Mix Tank: 5,000 gallons; vents to atmosphere
- Line 9 Reactor: 5,000 gallons; vents to atmosphere or carbon canister
- Line 9 Post Treat Tank #1: 6,500 gallons; vents to atmosphere
- Line 9 Post Treat Tank #2: 6,500 gallons; vents to atmosphere
- Line 8/9 Latex Drumming: 6,900 gallons; vents to atmosphere
- Line 8/9 Drumming: 6,000 gallons; vents to atmosphere

South Plant:

Source 032: South Plant Boiler Room (2 Boilers)

- Superior Boilerworks 4-5-751 Natural Gas Fired, 5.0 MMBtu/hr; installed 2001
- Cleaver Brooks CBLE 700-238-150ST Natural Gas Fired, 8.0 MMBtu/hr; installed 2013

Source 201: Liquid Blend Process/ Storage Area

**SECTION H. Miscellaneous.**

- Liquid Blend Mixing Tank 200: 2,000 gallons; vents to atmosphere
- Liquid Blend Mixing Tank 201: 5,000 gallons; vents to atmosphere
- Liquid Blend Mixing Tank 202: 3,000 gallons; vents to atmosphere
- Liquid Blend Mixing Tank 203: 3,000 gallons; vents to atmosphere
- Liquid Blend Reactor 204: 5,000 gallons; caustic scrubber
- Liquid Blend Mixing Tank 205: 2,000 gallons; vents to atmosphere
- Liquid Blend Mixing Tank 206: 5,000 gallons; vents to atmosphere
- Liquid Blend Mixing Tank 207: 6,500 gallons; vents to atmosphere
- Liquid Blend Mixing Tank 208: 5,000 gallons; vents to atmosphere
- Liquid Blend Mixing Tank 209: 5,000 gallons; vents to atmosphere
- Liquid Blend Mixing Tank 210: 5,000 gallons; vents to atmosphere
- Liquid Blend Mixing Tank 211: 5,000 gallons; vents to atmosphere
- Liquid Blend Mixing Tank 212: 5,000 gallons; vents to atmosphere
- Sodium Hydroxide Storage Tank (101): 8,000 gallons; vents to atmosphere
- Sodium Hydroxide Storage Tank (102): 8,000 gallons; vents to atmosphere
- 2-Phosphonobutane-1,2,4-tricarboxylic acid Storage Tank (103): 10,000 gallons; vents to atmosphere
- Sodium Bisulfite Storage Tank (104): 10,000 gallons; vapor recovery system
- Etheraminephosphonate Solution Storage Tank (105): 8,000 gallons; vents to atmosphere
- Zinc Chloride Storage Tank (106): 12,000 gallons; vents to atmosphere
- Empty Storage Tank (107): 6,000 gallons; vents to atmosphere
- Water Soluble Polymer Storage Tank (108): 6,000 gallons; vents to atmosphere
- 60% HEDP Storage Tank (109): 10,000 gallons; vents to atmosphere
- Water Soluble Polymer (110): 12,000-gallons
- Glyoxal Solution Storage Tank (111): 12,000 gallons; vents to atmosphere
- Sodium Bromide Solution Storage Tank (112): 12,000 gallons; vents to atmosphere
- Preservative Blend Solution Storage Tank (113): 12,000 gallons; vents to atmosphere
- Water & Polymer Solution Storage Tank (114): 12,000 gallons; vents to atmosphere
- Ethylene Glycol Solution Storage Tank (115): 12,000 gallons; vents to atmosphere
- Phosphate Blend Storage Tank (116): 12,000 gallons; vents to atmosphere
- Acrylic Polymer Solution Storage Tank (117): 12,000 gallons; vents to atmosphere
- Hydrogen Peroxide Water Storage Tank (118): 12,000 gallons; vents to atmosphere
- Acrylic Acid Storage Tank (119): 9,900 gallons; carbon canister
- Nitrogen Storage Tank (120): 3,000 gallons; vents to atmosphere
- Water Soluble Polymer Storage Tank (121): 10,000 gallons; vents to atmosphere
- Molten Maleic Acid Solution Storage Tank (122): 10,000 gallons; vents to atmosphere
- Water Soluble Polymer Storage Tank (123): 10,000 gallons; vents to atmosphere
- Acrylic Polymer Solution Storage Tank (124): 10,000 gallons; vents to atmosphere
- Sodium Hydroxide Storage Tank (125): 10,000 gallons; vents to atmosphere
- Potassium Hydroxide Storage Tank (126): 10,000 gallons; vents to atmosphere
- Tetrasodium EDTA Storage Tank (127): 10,000 gallons; vents to atmosphere
- Water Soluble Solution Storage Tank (128): 10,000 gallons; vents to atmosphere
- Acrylamide (129): 15,000-gallons; vents to atmosphere
- Phosphoric Acid Storage Tank (500): 38,000 gallons; vents to atmosphere
- Phosphoric Acid Storage Tank (501): 20,000 gallons; vents to atmosphere
- Methylenephosphonic Acid Storage Tank (504): 10,000 gallons; vents to atmosphere
- Dipropylene Glycol monomethyl Ether Storage Tank (505): 10,000 gallons; vents to atmosphere
- Water Soluble Blend (506): 8,000-gallons; vents to atmosphere
- Sulfuric Acid (507): 8,000-gallons; vents to atmosphere

Source 202: Furnace Room Process

- Furnace #1 Mix Tank: 2,000 gallons; vents to a wet scrubber;
- Furnace #1 Hold Tank: 2,000 gallons; vents to a wet scrubber;
- Furnace #1 Natural Gas Fired, 10 MMBtu/hr (uncontrolled);
- Furnace #2 Mix Tank: 2,000 gallons; vents to a wet scrubber;
- Furnace #2 Hold Tank: 2,000 gallons; vents to a wet scrubber;
- Furnace #2 Natural Gas Fired, 10 MMBtu/hr (uncontrolled);
- Terrasource Grinding Operations/Sizer/Screen/Packaging controlled by a 15,750 acfm (at 150 degrees Fahrenheit) Flex-Kleen baghouse (C202D);

**SECTION H. Miscellaneous.**

- Ferrell Ross Grinding Operations/Sizer/Screen/Packaging (enclosed in building);
- Wet Scrubber System (RFD on 05/11/17)

Source 203: Small Container Filling Operation

- Small container filling and packaging of liquids (5 - 250-gallons); no controls
- Blending Tank TK300

On September 24, 2021, an administrative amendment application was processed for the incorporation of two previously authorized request for determinations (RFDs) in April 2021 and June 2021, respectively. The April 2021 RFD authorized the manufacturing of a new product, A16B1 on Source 113 (Latex Polymer Line/Line 8) controlled by an existing 0.96 MMBtu/hr thermal oxidizer and carbon canisters. The June 2021 RFD authorized the storage of isothiazolin in Tank 704 with control by a carbon canister. The administrative amendment also updated permit maps and updated the responsible official.

Air contamination sources and air cleaning devices authorized for construction and/or operation under plan approval 04-00061C include the following:

- Source P114A– Tank 1; One (1) Fixed roof dome shaped tank to store Sodium Hypochlorite, 10,000-gallon capacity, approximate vapor pressure 0.35 psia, equipped with a pressure relief vent, controlled by a wet scrubber C114DE. Estimated throughput is 7,000 tons per year;
- Source P114B – Tank 2; One (1) Fixed roof Sodium Hydroxide tank, 7,000-gallon capacity, open vent, vapor pressure < 0.0001 psia. Estimated throughput is 1,000 tons per year;
- Source P114C – Tank 3; One (1) Fixed roof Sodium Bromide tank, 10,000-gallon capacity, open vent, vapor pressure <0.0001 psia. Estimated throughput is 1,500 tons per year;
- Source P114D – Reactor Vessel 1; One (1) Fixed roof tank to store stabilizer solution (sulfamic acid and other nonvolatile materials), capacity 3,000-gallon, approximate vapor pressure 0.48 psia, equipped with a pressure relief vent, and controlled by a wet scrubber C114A. Estimated throughput is 7,000 tons per year;
- Source P114E – Reactor Vessel 2; One (1) Fixed roof tank to store stabilizer solution with bleach and other non-volatile materials, 6,000-gallon capacity, approximate vapor pressure 0.09 psia, equipped with a pressure relief vents, and controlled by a wet scrubber C114A. Estimated throughput is 7,000 tons per year; and
- Control C114DE – One (1) Mist eliminator type - Mesh Pad Packed Tower Scrubber, manufactured by Schutte and Koerting, tower diameter 1'-6" and tower height 18'-8", gas inlet flow - 512 cfm at 220F, Removal efficiency 99%, and pressure differential across tower less than or equal to 2.75-inches.
- Source 104 – Two (2) tanks; Tank 4 (Tank 637) and Tank 5 (Tank 636); both are fixed roof tanks, 15,000-gallon capacity each, to store halogen-based chemical solution up to 6,000-gallon, open vent, approximate vapor pressure 0.15 psia. Estimated throughput of each tank is 7,000 tons per year;
- One (1) Waste tank;
- Product railcar loading; and
- Incoming railcar safety scrubber.



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