



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

**STATE ONLY OPERATING PERMIT**

Issue Date: August 13, 2018    Effective Date: September 10, 2020  
Revision Date: September 10, 2020    Expiration Date: July 31, 2023  
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: 10-00047**

Federal Tax Id - Plant Code: 81-4430261-1

**Owner Information**

Name: ASCENSUS SPECIALTIES CALLERY LLC  
Mailing Address: 1424 MARS EVANS CITY RD  
EVANS CITY, PA 16033-9360

**Plant Information**

Plant: ASCENSUS EVANS CITY SITE  
Location: 10        Butler County    10928 Forward Township  
SIC Code: 2819 Manufacturing - Industrial Inorganic Chemicals, Nec

**Responsible Official**

Name: BEN STEWART  
Title: DIRECTOR OF OPERATIONS  
Phone: (724) 538 - 1358

**Permit Contact Person**

Name: MITCHELL COLE  
Title: EHS LEAD  
Phone: (724) 538 - 1240

[Signature] \_\_\_\_\_  
*ERIC A. GUSTAFSON, NORTHWEST REGION AIR PROGRAM MANAGER*



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Source ID	Source Name	Capacity/Throughput		Fuel/Material
161	BLDG 16 BOILER (B16B-1002)	10.500	MMBTU/HR	
		10.500	MCF/HR	Natural Gas
721	BLDG 72 BOILER (B72B-1001)	14.288	MMBTU/HR	
		14.288	MCF/HR	Natural Gas
990	MISC NAT GAS COMBUSTION (< 2.5 MMBTU/HR)	13.386	MMBTU/HR	
		13.386	MCF/HR	Natural Gas
121	SUPEROXIDE PROCESS		N/A	SUPEROXIDE
241	BLDG 24 ALKYLBORANE PRODUCTION	5.250	MMBTU/HR	
		5.250	MCF/HR	NATURAL GAS
			N/A	BORANE DER
281	HOOD 1B		N/A	
311	BLDG 31 PRODUCT & PROCESS DEVELOPMENT	5.250	MMBTU/HR	
		5.250	MCF/HR	NATURAL GAS
			N/A	PRODUCT
312	BLDG 31 R&D		N/A	DRUMS
341	BLDG 34 LABORATORY ACTIVITIES, R&D/QC		N/A	
371	BLDG 37 BORANES DERIVATIVES		N/A	BORANE DERIV.
374	BLDG 37 BAG FILLING STATION		N/A	
376	BLDG 37 BORANES DERIVATIVES HYDROGEN VENT		N/A	
431	BLDG 43 HOT OIL FURNACE	2.600	MMBTU/HR	
		2.600	MCF/HR	Natural Gas
440	HEATED T-BUTANOL STORAGE TANKS	26.500	Gal/HR	T-BUTANOL
441	BLDG 44 ALCOHOLATES PRODUCTION		N/A	ALKALI METAL OX
443	BLDG 44 DRYERS & POWDER PACKAGING		N/A	
444	BLDG 44 PILOT PLANT		N/A	PRODUCT
446	BLDG 44 FILTER DEACTIVATION		N/A	
640	BLDG 64 POTASSIUM PRODUCTION	210.000	Lbs/HR	POTASSIUM
		6.000	MCF/HR	NATURAL GAS
861	BLDG 86 A&B VACUUM CYLINDER CLEANING		N/A	CLEANING CHEMICALS
941	BLDG 94 POWDER PACKAGING DUST COLLECTION		N/A	DIGLYME
980	BLDG 98 TANK FARM & TRUCK STATION		N/A	THF, VOCS
991	MISC EMERGENCY GENERATORS	28.400	Gal/HR	Diesel Fuel
		2.000	MMBTU/HR	Natural Gas
992	MISCELLANEOUS STORAGE TANKS		N/A	VOCS, GASOLINE, DIESEL
C121A	DEMISTER (B12FG - 1301)			
C121B	DEMISTER (B12FG - 1302)			
C241A	ALCOHOL SCRUBBER (B24TT - 0700)			
C241B	WATER SCRUBBER (B24TK - 0800)			
C241C	FLARE (B24B - 0900)			
C281	SCRUBBER (B28FG - 1100)			

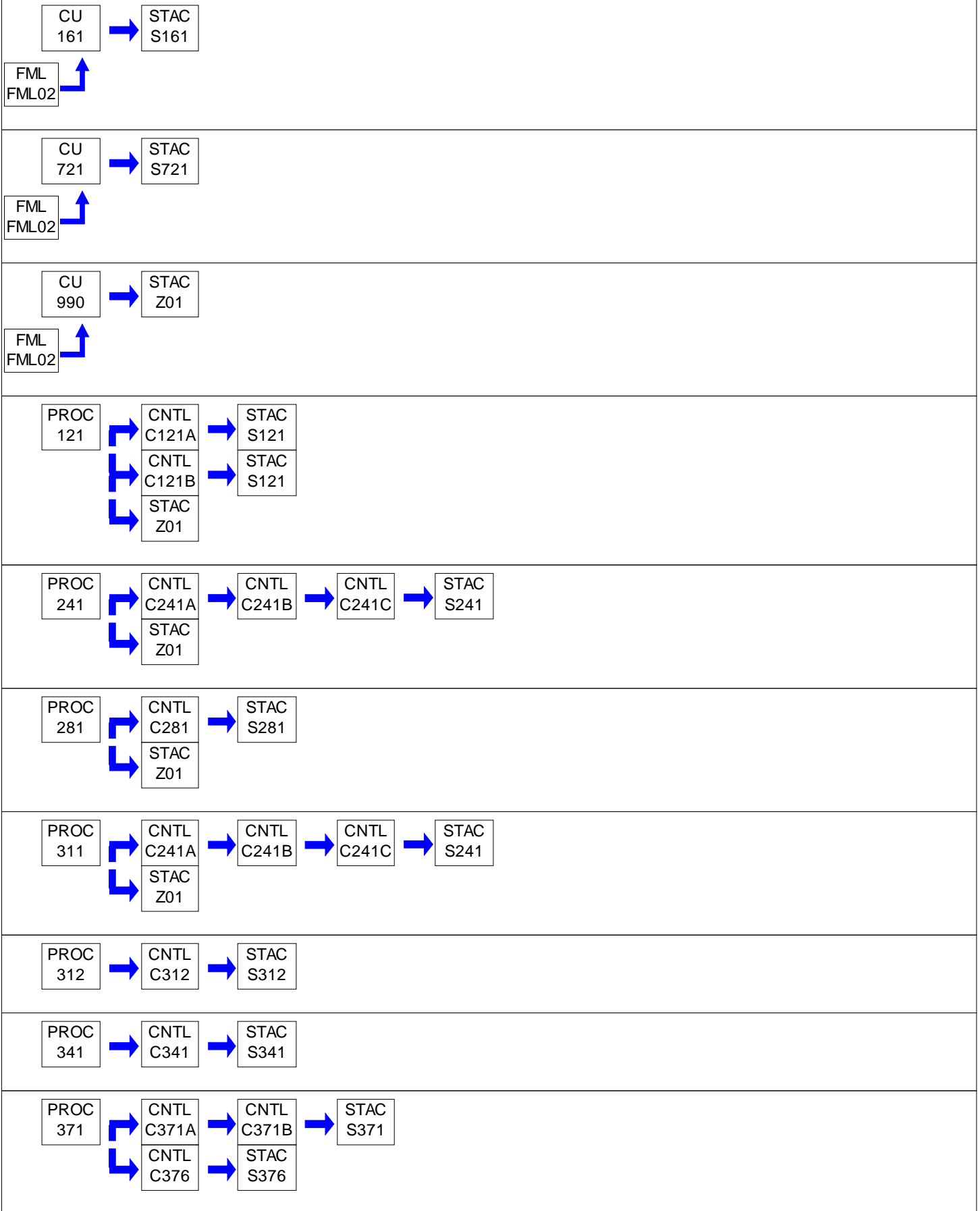
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
C312	CARBON FILTERS		
C341	CARBON FILTERS (31EF-1030,1040,1050,1010,1020,1060,1070)		
C371A	CHILLED OIL CONDENSER (B37E - 7160)		
C371B	CARBON FILTER (B37M - 7190)		
C374A	AQUEOUS SCRUBBER (B37M - 7150)		
C374B	CARBON FILTER (B37M - 7185)		
C376	CHILLED OIL CONDENSER (B37E - 1150)		
C441	CHILLED OIL CONDENSERS (B44E - 1175 & B44E-0875)		
C441A	EMERGENCY CHILLED OIL CONDENSER (B44E - 1700)		
C443	KNOCKOUT CANISTERS (B44FG - 0059, 0060, & 0061)		
C444	CHILLED OIL CONDENSER (B44E - 3210)		
C941	BLDG 94 DUST COLLECTOR (B94FG - 0703)		
C942	BLDG 94 PORTABLE DUST COLLECTOR (B94FG-3500)		
FML02	NATURAL GAS		
S121	BLDG 12 SUPEROXIDE PROCESS STACK		
S161	BLDG 16 BOILER STACK		
S241	BLDG 24 ALKYLBORANE PRODUCTION FLARE STACK		
S281	BLDG 28 HOOD 1B SCRUBBER STACK (B28Z-1120)		
S312	BLDG 31 DRUM CLEANING & LAB HOOD STACKS		
S341	BLDG 34 LAB HOOD STACKS		
S371	BLDG 37 BORANE DERIVATIVES STACK		
S374	BLDG 37 BAG FILLING STACK		
S376	BLDG 37 BORANES DERIVATIVES HYDROGEN STACK		
S431	BLDG 43 HOT OIL FURNACE STACK		
S441	BLDG 44 ALKALI METALS OXIDE PROD STACK		
S443	BLDG 44 KNOCKOUT CANISTER STACK		
S444	BLDG 44 PILOT PLANT STACK		
S640	BLDG 64 POTASSIUM PRODUCTION STACK		
S721	BLDG 72 BOILER STACK		
S941	BLDG 94 DUST & BULK LOADING PACKOFF STACK		
S942	PORTABLE DUST COLLECTOR STACK		
S991	EMERGENCY GENERATORS STACKS		
Z01	FUGITIVES		

**PERMIT MAPS**

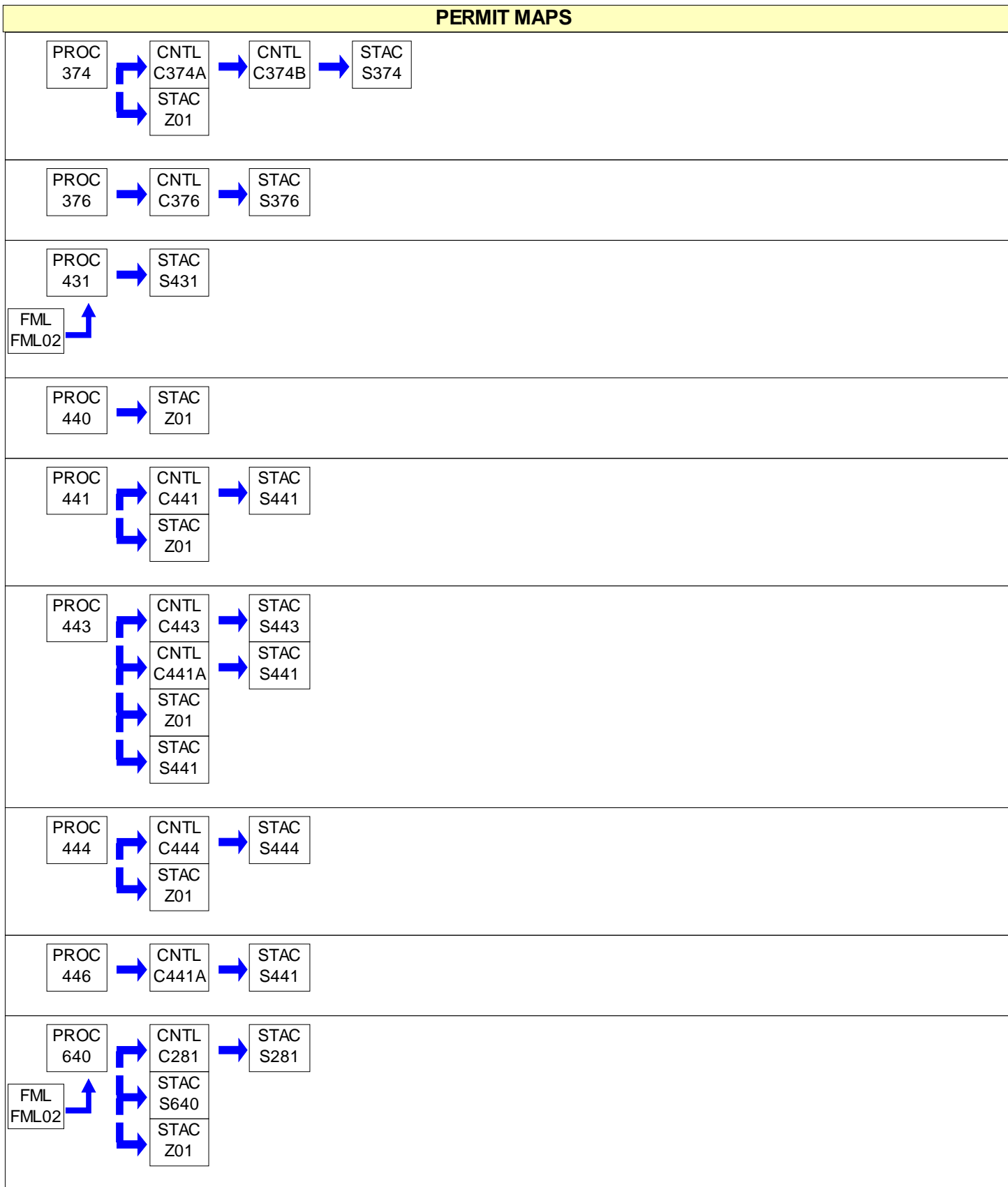


PERMIT MAPS



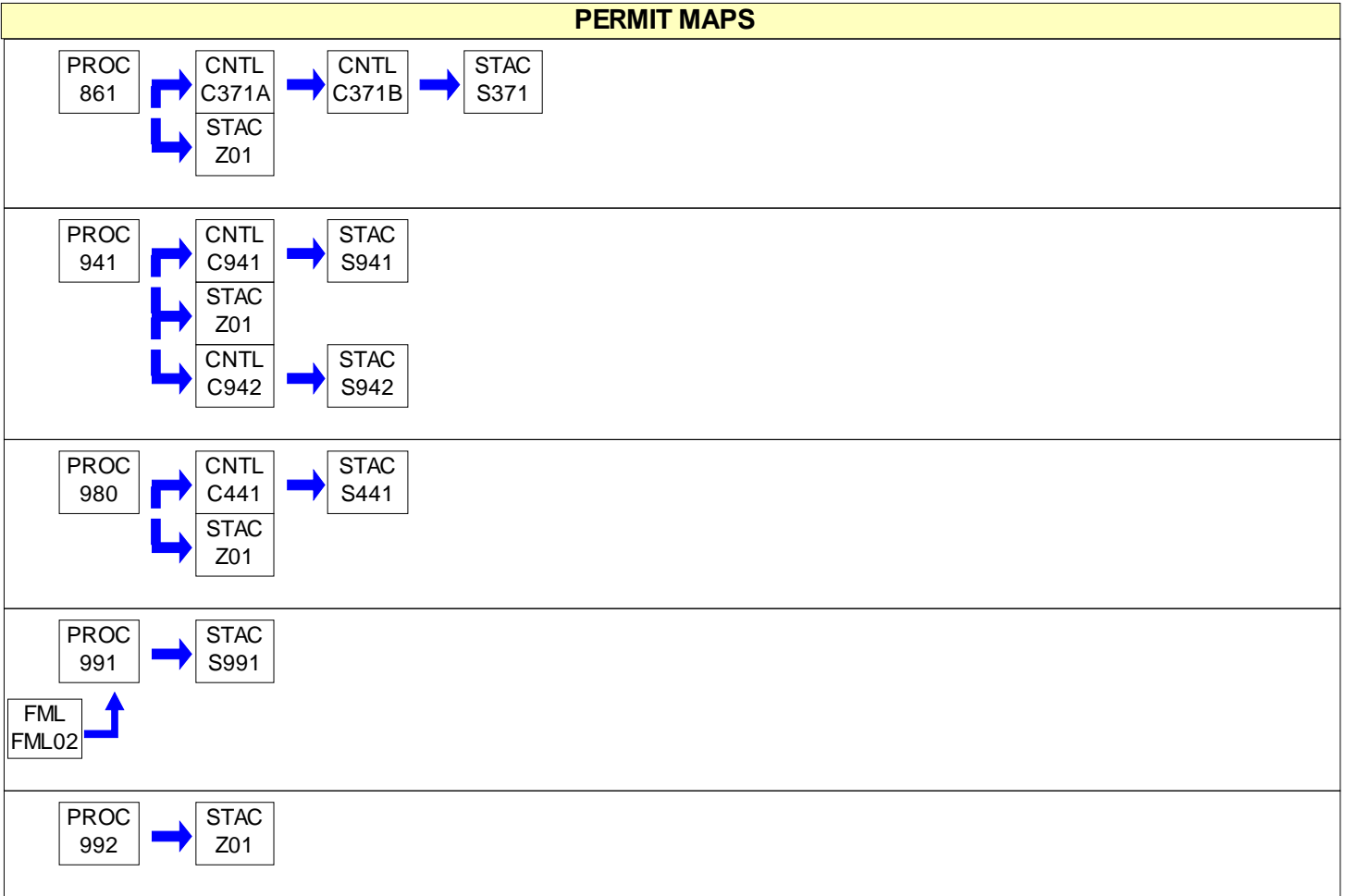


PERMIT MAPS





### PERMIT MAPS





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

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

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

- (a) This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit.
- (b) The terms and conditions of the expired permit shall automatically continue pending issuance of a new operating permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit.

**#003 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446 & 127.703(b)&(c)]****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 and an additional annual administrative fee as specified in 25 Pa. Code § 127.703(b) and (c). The fees shall be made payable to "The Commonwealth of Pennsylvania - Clean Air Fund" and shall be for the amount specified in the following schedule specified in 25 Pa. Code § 127.703(b) and (c).
- (1) Three hundred dollars for applications filed during the 2000-2004 calendar years.
  - (2) Three hundred seventy-five dollars for applications filed for the calendar years beginning in 2005.
- (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 fees according to the following schedule specified in 25 Pa. Code § 127.703(b):
- (1) Three hundred dollars for applications filed during the 2000-2004 calendar years.
  - (2) Three hundred seventy-five dollars for applications filed for the calendar years beginning in 2005.

This fee schedule shall apply to the processing of an application for an operating permit as well as the extension,

**SECTION B. General State Only Requirements**

modification, revision, renewal, and re-issuance of each operating permit or part thereof.

(b) The permittee shall pay an annual operating permit administrative fee according to the fee schedule established in 25 Pa. Code § 127.703(c).

(1) Two hundred fifty dollars for applications filed during the 1995-1999 calendar years.

(2) Three hundred dollars for applications filed during the 2000-2004 calendar years.

(3) Three hundred seventy-five dollars for applications filed during the years beginning in 2005.

(c) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania - Clean Air Fund".

**#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

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a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one or more of the following:

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

(b) A person may not cause or permit the operation of a source which is subject to 25 Pa. Code Article III unless the source(s) and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued 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]****Operating Permit Modifications**

(a) The permittee is authorized to make administrative amendments, minor operating permit modifications and

**SECTION B. General State Only Requirements**

significant operating permit modifications, under this permit, as outlined below:

(b) Administrative Amendments. The permittee shall make 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 make minor operating permit modifications (as defined 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.

(d) Permit modifications which do not qualify as minor permit modifications under 25 Pa. Code § 127.541 will be treated as a significant operating permit revision subject to the public notification procedures in §§ 127.424 and 127.425.

**#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<sub>x</sub> from a single source during the term of the permit and 5 tons of NO<sub>x</sub> 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 PM<sub>10</sub> from a single source during the term of the permit and 3.0 tons of PM<sub>10</sub> at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, the regulations thereunder or 25 Pa. Code Article III.

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**SECTION B. General State Only Requirements**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

(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) [Do not apply]
- (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 [Condition #002, below] (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) [Paragraph (c) is printed under Work Practice Requirements in this section of the permit.]

(d) [Does not apply]

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

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in § 123.1(a)(1)—(9) [Condition #001, above] (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

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

(a) [Paragraph (a) is printed under Work Practice Requirements in this section of the permit.]

(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.

**SECTION C. Site Level Requirements**

(c) [Does not apply]

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

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

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

**# 005 [25 Pa. Code §123.42]****Exceptions**

The limitations of 25 PA Code 123.41 [Condition #004, above] (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 25 PA Code 123.1(a)(1) -- (9) [Condition #001, above] (relating to prohibition of certain fugitive emissions).
- (4) [Does not apply]

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

This Operating Permit allows for the use of listed compatible solvents and materials for use in the four production areas [PADEP RFD approval on March 12, 2018] as long as the potential emissions are not exceeded [PADEP RFD approval on March 12, 2018]. The facility can modify the mixture of pollutants regulated under Section 112 of the Clean Air Act (42 U.S.C.A. 7412) which are Hazardous Air Pollutants so long as the emission limitations of the permit are not violated.

**II. TESTING REQUIREMENTS.****# 007 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

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

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

The Department reserves the right to require exhaust stack testing of any source(s) as necessary to verify emissions for purposes including determining the correct emission fee, malfunctions, or determining compliance with any applicable requirements.

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

**SECTION C. Site Level Requirements**

(a) The permittee shall conduct weekly monitoring of the facility property, while in operation, to observe for the presence of fugitive emissions and visible emissions being emitted into the outdoor atmosphere.

(b) All detected fugitive emissions other than those fugitive emissions exempted under Condition #001, above, and visible emissions greater than the levels specified in Condition #004, above, other than visible emissions exempted under Condition #005, above, shall be reported to the Plant Manager or his designated representative.

**IV. RECORDKEEPING REQUIREMENTS.****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The facility shall keep a log which identifies the mixture of the pollutants regulated under section 112 and report the changes in the mixture of pollutants regulated under section 112 with the next report required to be provided to the Department that the applicable thresholds are not exceeded.

All approved RFDs issues by the Department as of the date of this permit and applicable limits are reflected in this permit.

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

(a) The permittee shall maintain a record of the monitoring conducted to determine the presence of fugitive emissions and visible emissions.

(b) This recordkeeping shall contain a listing or notation of any and all sources of fugitive emissions or visible emissions; the cause of the fugitive emissions or visible emissions; duration of the emission; and the corrective action taken to abate the deviation and prevent future occurrences.

**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.****# 012 [25 Pa. Code §121.7]****Prohibition of air pollution.**

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

**# 013 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

[From: 25 Pa. Code §123.1(c):]

(c) A person responsible for any source specified in subsections (a)(1) -- (7) or (9) [Condition #001, above] 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.

**# 014 [25 Pa. Code §123.31]****Limitations**

**SECTION C. Site Level Requirements**

[From 25 Pa. Code § 123.31(a):]

(a) Limitations are as follows:

(1) If control of malodorous air contaminants is required under subsection (b) [Condition #003, above], emissions shall be incinerated at a minimum of 1200F 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.

**# 015 [25 Pa. Code §129.14]**

**Open burning operations**

(a) [Does not apply]

(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) Any 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) - (5) [Do not apply]

(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) [Does not apply]



## SECTION C. Site Level Requirements

(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.

[This permit does not constitute authorization to burn solid waste pursuant to Section 610 (3) of the Solid Waste Management Act, 35 P.S. Section 6018.610(3), or any other provision of Solid Waste Management Act.]

### VII. ADDITIONAL REQUIREMENTS.

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

### VIII. COMPLIANCE CERTIFICATION.

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

### IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

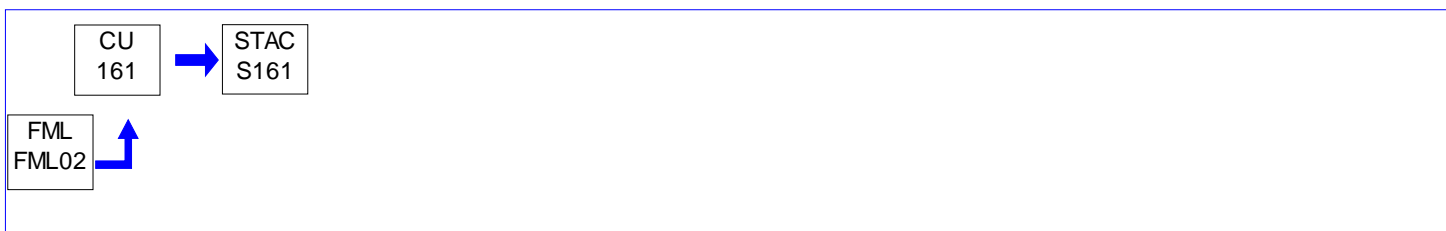
**SECTION D. Source Level Requirements**

Source ID: 161

Source Name: BLDG 16 BOILER (B16B-1002)

Source Capacity/Throughput: 10.500 MMBTU/HR

10.500 MCF/HR Natural Gas

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

A person may not permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO<sub>2</sub>, from a combustion unit in excess of the rate of 4 pounds per million Btu of heat input over a 1-hour period.

[Compliance with the requirements specified in this streamlined permit condition assures compliance with the provisions in: GP: 10-047 condition 19]

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

a) The source may not, at any time, result in the emission of visible emission in excess of the limitations specified in 25 PA Code 123.41 [Section C, Condition #004] (relating to limitations) as follows:

1. Equal to or greater than 20% for a period or periods aggregating more than 3 minutes in any one hour.
2. Equal to or greater than 60% at any time.

b) Particulate matter in excess of 0.4 pound per million Btu of heat input as specified in 25 PA Code 123.11 (relating to combustion units).

c) [Does not apply]

[GP - 10-047 condition 19]

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

The permittee shall use only natural gas as a fuel in this source.

**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).



## SECTION D. Source Level 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.

**# 004 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The source shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices.

### VII. ADDITIONAL REQUIREMENTS.

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

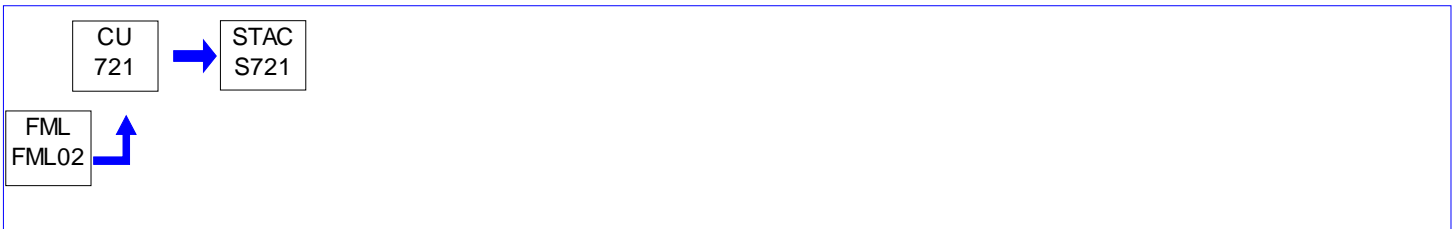
**SECTION D. Source Level Requirements**

Source ID: 721

Source Name: BLDG 72 BOILER (B72B-1001)

Source Capacity/Throughput: 14.288 MMBTU/HR

14.288 MCF/HR Natural Gas

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

A person may not permit the emission into the outdoor atmosphere of particulate matter from a combustion unit in excess of 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.

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

A person may not permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO<sub>2</sub>, from a combustion unit in excess of the rate of 4 pounds per million Btu of heat input over a 1-hour period.

**# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

a. Combustion Units Constructed after December 2, 1995, with Rated Capacity Equal to or Greater than 10 Million Btu per Hour

As a condition of this Small Combustion Unit General Permit, the permittee shall construct qualifying small gas and No. 2 virgin oil fired combustion units capable of reducing nitrogen oxides (NO<sub>x</sub>) and carbon monoxide (CO) emissions to or below:

- i. 30 ppm<sub>dv</sub> NO<sub>x</sub> at 3% O<sub>2</sub> when firing gas;
- ii. [Does not apply]
- iii. 300 ppm<sub>dv</sub> CO at 3% O<sub>2</sub>.

The combustion unit(s) shall be fired only on gas (natural or liquefied petroleum) or No. 2 commercial fuel oil to which there has been no reclaimed or waste oil or other waste materials added.

[GP-1-10-047A Condition #17(a)]

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

The permittee shall use only natural gas as a fuel in this source.

**II. TESTING REQUIREMENTS.****# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall, upon the request of the Department, provide fuel analyses, or fuel samples of the fuel used in any



**SECTION D. Source Level Requirements**

combustion unit authorized to operate under this general permit.

If, at any time, the Department has cause to believe that air contaminant emissions from a combustion unit covered by this general permit are in excess of the limitations specified in, or established pursuant to, any applicable regulation contained in 25 Pa. Code, Subpart C, Article III, the permittee shall conduct tests deemed necessary by the Department to determine the actual emission rate(s).

[GP-1-10-047A Condition #7]

**III. MONITORING REQUIREMENTS.****# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

These combustion units shall also comply with this Condition, subparagraphs a. through e. of this Small Combustion Unit General Permit and the emission limitations of the New Source Performance Standards prescribed in 40 CFR Part 60, Subpart Dc.

- a. The permittee shall install and maintain the necessary meter(s) to determine and to record amount of fuel usage.

[GP-1-10-047A Condition #16(a)]

**IV. RECORDKEEPING REQUIREMENTS.****# 007 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

These combustion units shall also comply with this Condition, subparagraphs a. through e. of this Small Combustion Unit General Permit and the emission limitations of the New Source Performance Standards prescribed in 40 CFR Part 60, Subpart Dc.

- c. The permittee shall maintain daily fuel consumption records in accordance with 40 CFR §60.48c(g) (this applies to both gas and oil-fired units).

[GP-1-10-047A Condition #16(c)]

**# 008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]****Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units****Reporting and recordkeeping requirements.**

(a) - (f) [Do not apply]

(g)(1) Except as provided under paragraphs (g)(2) and (g)(3) of this section, the owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each operating day.

(2) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in §60.48c(f) to demonstrate compliance with the SO<sub>2</sub> standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

(3) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility or multiple affected facilities located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to this subpart) at that property are natural gas, wood, distillate oil meeting the most current requirements in §60.42C to use fuel certification to demonstrate compliance with the SO<sub>2</sub> standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month.

(h) [Does not apply]

**SECTION D. Source Level Requirements**

(i) All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record.

(j) [Does not apply]

[72 FR 32759, June 13, 2007, as amended at 74 FR 5091, Jan. 28, 2009]

**V. REPORTING REQUIREMENTS.****# 009 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall notify the Department in writing, within 24 hours of the discovery during a business day or by 5:00 pm on the first business day after a weekend or holiday, of any malfunction of the combustion unit which results in, or may result in, the emission of air contaminants in excess of the limitations specified in, or established pursuant to, any applicable rule or regulation contained in 25 Pa. Code, Subpart C, Article III (relating to air resources).

[GP-1-10-047A Condition #6]

**# 010 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

These combustion units shall also comply with this Condition, subparagraphs a. through e. of this Small Combustion Unit General Permit and the emission limitations of the New Source Performance Standards prescribed in 40 CFR Part 60, Subpart Dc.

e. Pursuant to 40 CFR §60.4, the permittee shall submit copies of all requests, reports, applications, submittals, and other communications to both EPA and the appropriate Regional Office of the Department. The EPA copies shall be forwarded to:

Air Enforcement Branch, Mail Code 3AP12  
US EPA, Region III  
1650 Arch Street  
Philadelphia PA 19103-2029

[GP-1-10-047A Condition #16(e)]

**VI. WORK PRACTICE REQUIREMENTS.****# 011 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Any combustion unit operating under this Small Combustion Unit General Permit shall comply with the terms and conditions of the general permit. The combustion unit and any associated air cleaning devices shall be:

- a. Operated in such a manner as not to cause air pollution.
- b. Operated and maintained in a manner consistent with good operating and maintenance practices.
- c. Operated and maintained in accordance with the manufacturer's specifications and the applicable terms and conditions of this Small Combustion Unit General Permit.

[GP-1-10-047A, Condition #4]

**VII. ADDITIONAL REQUIREMENTS.****# 012 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall comply with applicable monitoring, recordkeeping and reporting requirements set forth in 25 Pa. Code Chapter 139 (relating to sampling and testing), the Air Pollution Control Act, the Clean Air Act, and the applicable regulations under the acts.

**SECTION D. Source Level Requirements**

[GP-1-10-047A Condition #8]

**# 013 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.40c]**

**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units  
Applicability and delegation of authority.**

(a) Except as provided in paragraphs (d), (e), (f), and (g) of this section, the affected facility to which this subpart applies is each steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input capacity of 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/h)) or less, but greater than or equal to 2.9 MW (10 MMBtu/h).

(b) In delegating implementation and enforcement authority to a State under section 111(c) of the Clean Air Act, §60.48c(a)(4) shall be retained by the Administrator and not transferred to a State.

(c) Steam generating units that meet the applicability requirements in paragraph (a) of this section are not subject to the sulfur dioxide (SO<sub>2</sub>) or particulate matter (PM) emission limits, performance testing requirements, or monitoring requirements under this subpart (§§60.42c, 60.43c, 60.44c, 60.45c, 60.46c, or 60.47c) during periods of combustion research, as defined in §60.41c.

(d) Any temporary change to an existing steam generating unit for the purpose of conducting combustion research is not considered a modification under §60.14.

(e) - (i) [Do not apply]

[72 FR 32759, June 13, 2007, as amended at 74 FR 5090, Jan. 28, 2009; 77 FR 9461, Feb. 16, 2012]

**# 014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.41c]**

**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units  
Definitions.**

[Refer to 40 CFR 60.41C for definitions applicable to Subpart Dc.]

**SECTION D. Source Level Requirements**

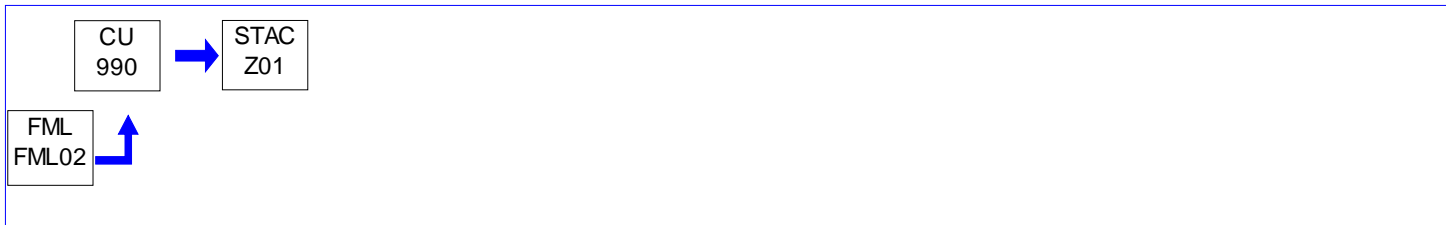
Source ID: 990

Source Name: MISC NAT GAS COMBUSTION (&lt; 2.5 MMBTU/HR)

Source Capacity/Throughput: 13.386 MMBTU/HR

13.386 MCF/HR Natural Gas

Conditions for this source occur in the following groups: PM LIMIT FOR PROCESSES

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

# 001 [25 Pa. Code §123.22]

**Combustion units**

A person may not permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO<sub>2</sub>, from a combustion unit in excess of the rate of 4 pounds per million Btu of heat input over a 1-hour period.

**II. TESTING REQUIREMENTS.**

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

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The source shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices.

**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: 121

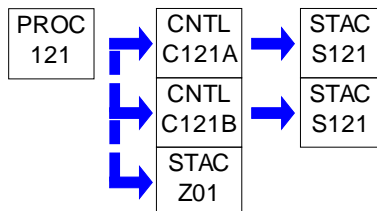
Source Name: SUPEROXIDE PROCESS

Source Capacity/Throughput:

N/A

SUPEROXIDE

Conditions for this source occur in the following groups: PM LIMIT FOR 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.****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

A daily log shall be maintained of the sources and collection systems when in operation. This log shall document that there are no emissions from the sources or collection systems that exceed the requirements of the plan approval. Additionally, a record of all preventative and corrective maintenance performed on the sources, collection systems, hoods and ductwork shall be maintained. The log shall be made available to Department personnel upon request and shall be maintained for a period of at least two years.

[PA: PA-10-047E condition 8]

**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.****# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The source and control devices shall be operated and maintained in accordance with the manufacturer's specifications and within good engineering practice.

[PA: PA-10-047E conditions 6 & 7]

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

**SECTION D. Source Level Requirements**

Source ID: 241

Source Name: BLDG 24 ALKYLBORANE PRODUCTION

Source Capacity/Throughput:

5.250 MMBTU/HR

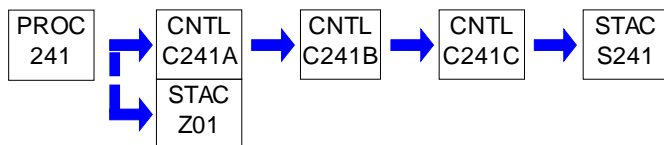
5.250 MCF/HR

NATURAL GAS

N/A

BORANE DER

Conditions for this source occur in the following groups: PMLIMIT FOR PROCESSES

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

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, 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) and/or Section E (Source Group Restrictions).

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

The control devices associated with this process shall monitor the following parameters:

## 1) C241A, Alcohol Scrubber (B24TT-0700):

- Borate concentration level in alcohol scrubber fluid less than or equal to 1.25 meq B/g when operating process, on a monthly basis.
- Alcohol scrubber fluid flow rate greater than or equal to 1.4 GPM when operating process, on a daily basis.
- Process operating status, on a daily basis.

## 2) C241B, Water Scrubber (B24TK-0800):

- Borate concentration level in water scrubber fluid less than or equal to 1.5 meq B/g when operating process, on a monthly basis.
- Water scrubber fluid flow rate greater than or equal to 1.4 GPM when operating process, on a daily basis.
- Process operating status, on a daily basis.

## 3) C241C, Flare (B24B-0900):

- Minimum temperature of flare is greater than or equal to 1400°F, measured at 24TE-0899 in flare column at the burner ring while the process unit is in operation, on a daily basis.
- Process operating status, on a daily basis.

**IV. RECORDKEEPING REQUIREMENTS.****# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

- Records of the operating temperature of the flare (C241C) shall be kept on file for at least 5 years. The records shall be made available to Department personnel upon request.

**SECTION D. Source Level Requirements**

b) Records shall be kept on file of when the scrubbing fluid in the first and second stage of the scrubber (C241A & C241B) is changed and the borate concentration level at that time.

c) Records shall be kept on file of when the flare (C241C) is by-passed and how long gas is vented to the atmosphere before shutdown. The records shall be retained for at least 5 years and shall be made available to the Department upon request.

[OP: PA-10-047B conditions 6, 9, & 11 which superceded plan approval PA-10-047B conditions 7, 10, & 12]

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

The permittee shall maintain and keep the following records, to ensure compliance with the monitoring requirements for the control devices:

1) C241A, Alcohol Scrubber (B24TT-0700):

- a. Record sampling date, borate concentration level results in electronic record keeping log; Compliance Records, Air Quality Operating Permit.
- b. Record flow rate in record keeping log; Compliance Records.
- c. Record status of production unit (idle or operating).

2) C241B, Water Scrubber (B24TK-0800):

- a. Record sampling date, borate concentration level results in record keeping log; Compliance Records.
- b. Record flow rate in record keeping log; Compliance Records.
- c. Record status of production unit (idle or operating).

3) C241C, Flare (B24B-0900):

a. If vent/flare hand switch HS-0970 is closed (routed to flare) during normal process operation, record temperature reading in electronic record keeping log; Compliance Records, Air Quality Operating Permit.

If vent/flare hand switch HS-0970 is opened (flare bypassed), record the amount of time it was open/venting to atmosphere in electronic record keeping log; Compliance Records, Air Quality Operating Permit.

b. Record status of production unit (idle or operating) in electronic record keeping log; Compliance Records, Air Quality Operating Permit.

4) The permittee shall maintain a record of all preventative maintenance inspections of the control devices. These records shall, at a minimum, contain the dates of the inspections, any problems or defects, the actions taken to correct the problem or defects, and any routine maintenance performed.

**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 §127.12b]****Plan approval terms and conditions.**

a) The flare (C241C) shall be operated at a minimum temperature of 1400F.

b) The scrubbing fluid in the alcohol scrubber (C241A) shall be changed when its borate concentration reaches approximately 15 wt% borates or 1.25 meq B/g.

c) Scrubbing fluid in the second stage scrubber (C241B) shall be changed before the solution is saturated with borate.

d) Vent streams from scrubbers (C241A & C241B) can bypass the flare (C241C) for short periods of time only so that the flare (C241C) can be restarted. If the flare (C241C) will not restart, gas shall be vented to the atmosphere only long enough to safely shut down the processes that send gas to the scrubber-flare system.



**SECTION D. Source Level Requirements**

[OP: PA-10-047B conditions 5, 7, 8, & 10 which superceded plan approval PA-10-047B conditions 6, 8, 9, & 12]

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

- a) The permittee shall perform a daily operational inspection of the control devices when in operation.
- b) All piping for hydrogen processes piping goes right into alcohol (methanol) scrubber and water scrubber then into the flare. There is no by-pass.
- c) The permittee shall operate the control devices at all times that the source is in operation except as noted in conditions #005(d) and #006(b).
- d) The source and control devices shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices.

**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**

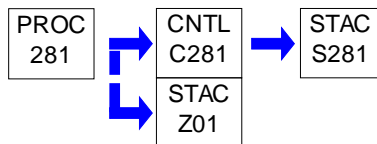
Source ID: 281

Source Name: HOOD 1B

Source Capacity/Throughput:

N/A

Conditions for this source occur in the following groups: PM LIMIT FOR 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.****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the following parameters of the control device (C281) during the daily inspection:

- 1) Scrubber liquid level greater than or equal to 37" and less than or equal to 58" while the process unit is in operation.
- 2) Scrubber liquid recirculation flow rate to each of (2) venturi spray nozzles (flow meters 4&5) is greater than or equal to 18 GPM while the process unit is in operation.
- 3) Process operating status.

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

a) The permittee shall maintain records of the following from the operational inspections of the control device:

- 1) Record Water Scrubber liquid level in electronic record keeping log; Compliance Records, Air Quality Operating Permit
- 2) Record flow rates through each recirculation line in electronic record keeping log; Compliance Records, Air Quality Operating Permit
- 3) Record status of production unit (idle or operating) in electronic record keeping log; Compliance Records, Air Quality Operating Permit

b) The permittee shall maintain a record of all preventative maintenance inspections of the control device. These records shall, at a minimum, contain the dates of the inspections, any problems or defects, the actions taken to correct the problem or defect, and any routine maintenance performed.

**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).

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

- a) The permittee shall perform a daily operational inspection of the control device when in operation.
- b) The permittee shall operate the control device at all times that the source is in operation.
- c) The source and control device shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices.

**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: 311

Source Name: BLDG 31 PRODUCT &amp; PROCESS DEVELOPMENT

Source Capacity/Throughput:

5.250 MMBTU/HR

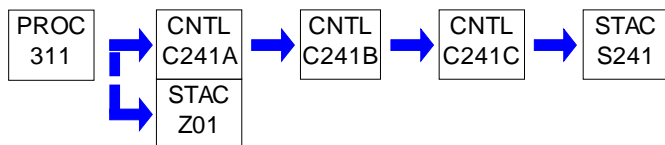
5.250 MCF/HR

NATURAL GAS

N/A

PRODUCT

Conditions for this source occur in the following groups: PMLIMIT FOR PROCESSES

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

# 001 [25 Pa. Code §123.21]

**General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, 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) 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.**

# 002 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

- Records of the operating temperature of the flare (C241C) shall be kept on file for at least 5 years. The records shall be made available to Department personnel upon request.
- Records shall be kept on file of when the scrubbing fluid in the first and second stage of the scrubber (C241A & C241B) is changed and the borate concentration level at that time.
- Records shall be kept on file of when the flare (C241C) is by-passed and how long gas is vented to the atmosphere before shutdown. The records shall be retained for at least 5 years and shall be made available to the Department upon request.

[OP: PA-10-047B conditions 6, 9, & 11 which superceded plan approval PA-10-047B conditions 7, 10, & 12]

# 003 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

- The permittee shall maintain records of the following from the operational inspections:
  - Two Stage Scrubbing System (C241A & C241AB):
    - Liquid flow rate for scrubber C241A

**SECTION D. Source Level Requirements**

b) Liquid flow rate for scrubber C241B

2. Flare (C241C):

a) Temperature

b) The permittee shall maintain a record of all preventative maintenance inspections of the control device. These records shall, at a minimum, contain the dates of the inspections, any problems or defects, the actions taken to correct the problem or defects, and any routine maintenance performed.

**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.**

**# 004 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

a) The flare (C241C) shall be operated at a minimum temperature of 1400F.

b) The scrubbing fluid in the alcohol scrubber (C241A) shall be changed when its borate concentration reaches approximately 15 wt%.

c) Scrubbing fluid in the second stage scrubber (C241B) shall be changed before the solution is saturated with borate.

d) Vent streams from scrubbers (C241A & C241B) can bypass the flare (C241C) for short periods of time only so that the flare (C241C) can be restarted. If the flare (C241C) will not restart, gas shall be vented to the atmosphere only long enough to safely shut down the processes that send gas to the scrubber-flare system.

[OP: PA-10-047B conditions 5, 7, 8, & 10 which superseded plan approval PA-10-047B conditions 6, 8, 9, & 12]

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

a) The permittee shall perform a daily operational inspection of the control devices when in operation.

b) Process streams that contain Hydrogen but no Boron compounds may bypass the 2 stage scrubbing system (C241A & C241B) and be sent directly to the flare (C241C).

c) The permittee shall operate the control devices at all times that the source is in operation except as noted in conditions #005(d) and #006(b).

d) The source and control devices shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices.

**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: 312

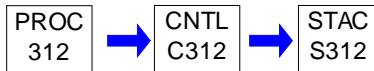
Source Name: BLDG 31 R&amp;D

Source Capacity/Throughput:

N/A

DRUMS

Conditions for this source occur in the following groups: PM LIMIT FOR 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.****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the following parameters on a daily basis:

- 1) Daily operational inspection when in operation while the unit is in operation.
- 2) Process operating status.

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

1) The permittee shall maintain the following records for a period of 5 years, to be made available to the Department upon request:

a) On a 6-month basis, the permittee shall record the inspection result of the following devices:

- (1) Drums with carbon filters
- (2) Lab Hood #1 with carbon filters C&D
- (3) Lab Hood #2 with carbon filter E
- (4) Lab Hood #3 with carbon filter A & B
- (5) Cabinet Vent Hood with carbon filter F
- (6) Lab Hood #4 with carbon filter G

b) On a daily basis, record status of production unit (idle or operating) in electronic record keeping log; Compliance Records, Air Quality Operating Permit

2) The permittee shall maintain a record of all preventative maintenance inspections of the control device. These records shall, at a minimum, contain the dates of the inspections, any problems or defects, the actions taken to correct the problem or defects, and any routine maintenance performed.

**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).

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

- a) The permittee shall perform a daily operational inspection of the control device when in operation.
- b) The permittee shall operate the control device at all times that the source is in operation.
- c) The source and control device shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices.

**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**

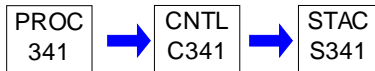
Source ID: 341

Source Name: BLDG 34 LABORATORY ACTIVITIES, R&amp;D/QC

Source Capacity/Throughput:

N/A

Conditions for this source occur in the following groups: PM LIMIT FOR 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.****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain a record of all preventative maintenance inspections of the control device. These records shall, at a minimum, contain the dates of the inspections, any problems or defects, the actions taken to correct the problem or defects, and any routine maintenance performed.

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

- a) The permittee shall perform a daily operational inspection of the control device when in operation.
- b) The permittee shall operate the control device at all times that the source is in operation.
- c) The source and control device shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices.

**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: 371

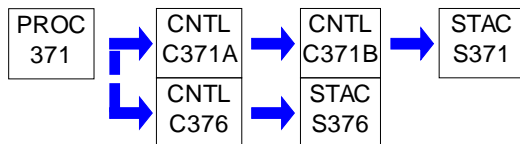
Source Name: BLDG 37 BORANES DERIVATIVES

Source Capacity/Throughput:

N/A

BORANE DERIV.

Conditions for this source occur in the following groups: PM LIMIT FOR 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.****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

A daily log shall be maintained of the sources and collection systems when in operation. This log shall document that there are no emissions from the sources or collection systems that exceed the requirements of the plan approval. Additionally, a record of all preventative and corrective maintenance performed on the sources, collection systems, hoods, and duct work shall be maintained. The log shall be made available to Department personnel upon request and shall be maintained for at least five years.

[PA: PA-10-047H condition 10]

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

a) The permittee shall maintain records of the following from the operational inspections:

1. Aftercooler (C371A):

a) Outlet temperature shall be recorded on an hourly basis in an electric record keeping log; Compliance Records, Air Quality Operating Permit.

b) Record status of production unit (idle or operating) in electronic log on an hourly basis; Compliance Records, Air Quality Operating Permit.

b) The permittee shall maintain a record of all preventative maintenance inspections of the control devices. These records shall, at a minimum, contain the dates of the inspections, any problems or defects, the actions taken to correct the problem or defects, and any routine maintenance performed.

**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.****# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

- a) The sources and control devices shall be operated and maintained in accordance with the manufacturer's specifications. If required to deviate from the manufacturer's recommended operations or maintenance, all changes will be approved through the Management of Change procedure in accordance with OSHA Process Safety Management standards.
- b) The sources and control devices shall be operated and maintained within good engineering practice.
- c) During process operation:
  - 1. Chilled oil, heat transfer fluid at the outlet of condenser (C371A: 37E-7160) shall be maintained at temperature no warmer than 3°F.
  - 2. The facility shall maintain hourly temperature records of the chilled oil at the outlet of each condenser. The temperature records shall be maintained on file for five years and made readily available to Department personnel upon request.

[PA: PA-10-047H conditions 7, 8, & 9]

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

- a) The permittee shall perform a daily operational inspection of the control devices when in operation.
- b) The permittee shall operate the control devices at all times that the source is in operation.
- c) The source and control devices shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices.

**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**

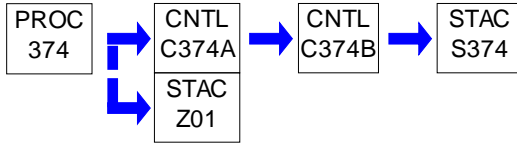
Source ID: 374

Source Name: BLDG 37 BAG FILLING STATION

Source Capacity/Throughput:

N/A

Conditions for this source occur in the following groups: PM LIMIT FOR 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.****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The following parameters shall be monitored for the control device (C374A):

1. Visually check sight glass and confirm water circulation flow when process unit is in operation, on a daily basis.
2. Process hourly status, on an hourly basis.

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

a) The permittee shall maintain records of the following from the operational inspections:

1. Scrubber (C374A):
  - a) Record visual verification of water flow in electronic record keeping log; Compliance Records, Air Quality Operating Permit.
  - b) Record status of production unit (idle or operating) in electronic record keeping log; Compliance Records, Air Quality Operating Permit.
- b) The permittee shall maintain a record of all preventative maintenance inspections of the control devices. These records shall, at a minimum, contain the dates of the inspections, any problems or defects, the actions taken to correct the problem or defects, and any routine maintenance performed.

**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).

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

- a) The permittee shall perform a daily operational inspection of the control devices when in operation.
- b) The permittee shall operate the control devices at all times that the source is in operation.
- c) The source and control devices shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices.

**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**

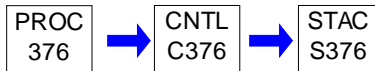
Source ID: 376

Source Name: BLDG 37 BORANES DERIVATIVES HYDROGEN VENT

Source Capacity/Throughput:

N/A

Conditions for this source occur in the following groups: PM LIMIT FOR 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.****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The following parameters shall be monitored for the control device (C376):

1. Condenser chilled oil inlet temperature maintain at or below 9°F when process unit is operation, on an hourly basis.
2. Process operating status, on an hourly basis.

**IV. RECORDKEEPING REQUIREMENTS.****# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

A daily log shall be maintained of the sources and collection systems when in operation. This log shall document that there are no emissions from the sources or collection systems that exceed the requirements of the plan approval. Additionally, a record of all preventative and corrective maintenance performed on the sources, collection systems, hoods, and duct work shall be maintained. The log shall be made available to Department personnel upon request and shall be maintained for at least five years.

[PA: PA-10-047H condition 10]

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

a) The permittee shall maintain records of the following from the operational inspections:

1. Chilled Oil Condenser (C376):

a) Record oil inlet and outlet temperature in electronic record keeping log on an hourly basis; Compliance Records, Air Quality Operating Permit.

b) Record status of production unit (idle or operating) in electronic record keeping log on an hourly basis; Compliance Records, Air Quality Operating Permit.

b) The permittee shall maintain a record of all preventative maintenance inspections of the control device. These records shall, at a minimum, contain the dates of the inspections, any problems or defects, the actions taken to correct the problem or defects, and any routine maintenance performed.

**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.****# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

a) The sources and control device shall be operated and maintained in accordance with the manufacturer's specifications. If required to deviate from the manufacturer's recommended operations or maintenance, all changes will be approved through the Management of Change procedure in accordance with OSHA Process Safety Management standards.

b) The sources and control device shall be operated and maintained within good engineering practice.

c) During process operation:

1. Chilled oil, heat transfer fluid at the outlet of condenser (C376: 37E-1150) shall be maintained at temperature no warmer than 9F.

2. The facility shall maintain hourly temperature records of the chilled oil at the outlet of each condenser. The temperature records shall be maintained on file for five years and made readily available to Department personnel upon request.

[PA: PA-10-047H conditions 7, 8, & 9]

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

a) The permittee shall perform a daily operational inspection of the control device when in operation.

b) The permittee shall operate the control device at all times that the source is in operation.

c) The source and control device shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices.

**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: 431

Source Name: BLDG 43 HOT OIL FURNACE

Source Capacity/Throughput: 2.600 MMBTU/HR

2.600 MCF/HR Natural Gas

Conditions for this source occur in the following groups: PM LIMIT FOR PROCESSES

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

# 001 [25 Pa. Code §123.21]

**General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, 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) 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**

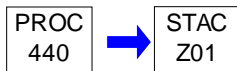
Source ID: 440

Source Name: HEATED T-BUTANOL STORAGE TANKS

Source Capacity/Throughput:

26.500 Gal/HR

T-BUTANOL

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

The source shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices.

**VII. ADDITIONAL REQUIREMENTS.**

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



**SECTION D. Source Level Requirements**

Source ID: 441

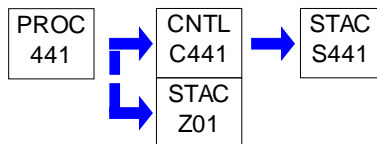
Source Name: BLDG 44 ALCOHOLATES PRODUCTION

Source Capacity/Throughput:

N/A

ALKALI METAL OX

Conditions for this source occur in the following groups: PM LIMIT FOR 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.****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the following parameters for the control device (C441):

1. Condenser chilled oil inlet temperature maintain at or below -26°C when process unit is in operation, on an hourly basis.
2. Process operating status, on an hourly basis.

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

- a) The facility shall maintain hourly temperature records of the chilled oil at the inlet of each condenser (C441) when in operation. The temperature records shall be maintained on file for five years and made readily available to Department personnel upon request.
- b) The facility shall record the status of production unit (idle or operating) in electronic record keeping log; Compliance Records, Air Quality Operating Permit
- c) The permittee shall maintain a record of all preventative maintenance inspections of the control device. These records shall, at a minimum, contain the dates of the inspections, any problems or defects, the actions taken to correct the problem or defects, and any routine maintenance performed.

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

- a) During potassium tert-amylate (KTA) in cyclohexane or potassium tert-butyrate in butyl alcohol production, the chilled oil

**SECTION D. Source Level Requirements**

condensers (C441) may be bypassed because the vent stream may solidify and cause potential plugging problems. If future chemicals with a freezing point of  $-26^{\circ}\text{C}$  or higher are to be produced, a letter requesting approval must be submitted to the Department.

b) During production of no more than 134 batches of sodium mentholate (NAM) per year, the chilled oil condensers (C441) may be bypassed because the vent stream may solidify and cause potential plugging problems.

c) Chilled oil, heat transfer fluid at the inlet of each condenser (C441: B44E-1175 and B44E-0875) shall be maintained at a temperature no warmer than  $-26^{\circ}\text{C}$  during process operation.

d) The permittee shall perform a daily operational inspection of the control device when in operation.

e) The permittee shall operate the control device at all times that the source is in operation.

f) The source and control device shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices.

**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**

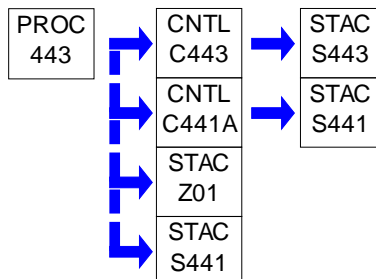
Source ID: 443

Source Name: BLDG 44 DRYERS &amp; POWDER PACKAGING

Source Capacity/Throughput:

N/A

Conditions for this source occur in the following groups: PM LIMIT FOR 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.****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the following parameters with regards to the control devices:

## 1. C441A

- Condenser chilled oil outlet temperature maintain at or below -26°C when process unit is in operation, on an hourly basis.
- Process operating status, on an hourly basis.

## 2. C443

- Visually verify that the liquid level in each knockout canister is below the canister inlet when process unit is in operation, on a daily basis.

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

- The permittee shall maintain records of the following from the operational inspections:

## 1. Emergency Chilled Oil Condenser (C441A):

- Record oil outlet temperature in electronic record keeping log; Compliance Records, Air Quality Operating Permit.
- Record status of production unit (idle or operating) in electronic record keeping log; Compliance Records, Air Quality Operating Permit.



## SECTION D. Source Level Requirements

### 2. Knockout Canister (C443):

- a) Solids level below inlet level.
- b) Facility must maintain records of the operational inspection and the operational status in electronic record keeping log; Compliance Records, Air Quality Operating Permit.
- b) The permittee shall maintain a record of all preventative maintenance inspections of the control devices. These records shall, at a minimum, contain the dates of the inspections, any problems or defects, the actions taken to correct the problem or defects, and any routine maintenance performed.

## 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.

**# 003 [25 Pa. Code §127.441]**

### **Operating permit terms and conditions.**

- a) The permittee shall perform a daily operational inspection of the control devices when in operation.
- b) The permittee shall operate the control devices at all times that the source is in operation.
- c) The source and control devices shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices.

## 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: 444

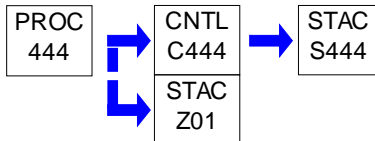
Source Name: BLDG 44 PILOT PLANT

Source Capacity/Throughput:

N/A

PRODUCT

Conditions for this source occur in the following groups: PM LIMIT FOR 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.****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain a record of all preventative maintenance inspections of the control device. These records shall, at a minimum, contain the dates of the inspections, any problems or defects, the actions taken to correct the problem or defects, and any routine maintenance performed.

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

- a) The permittee shall perform a daily operational inspection of the control device when in operation.
- b) The permittee shall operate the control device at all times that the source is in operation.
- c) The source and control device shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices.

**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**

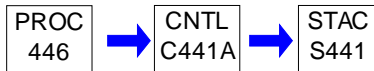
Source ID: 446

Source Name: BLDG 44 FILTER DEACTIVATION

Source Capacity/Throughput:

N/A

Conditions for this source occur in the following groups: PM LIMIT FOR 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.****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the following parameters with regards to the control device (C441A):

- 1) Condenser chilled oil outlet temperature maintain at or below -26°C when process unit is in operation, on an hourly basis.
- 2) Process operating status, on an hourly basis.

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

- 1) The permittee shall maintain records of the following from the operational inspections:
  - a) Record oil outlet temperature in electronic record keeping log; Compliance Records, Air Quality Operating Permit.
  - b) Record status of production unit (idle or operating) in electronic record keeping log; Compliance Records, Air Quality Operating Permit.
- 2) The permittee shall maintain a record of all preventative maintenance inspections of the control devices. These records shall, at a minimum, contain the dates of the inspections, any problems or defects, the actions taken to correct the problem or defects, and any routine maintenance performed.

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

- a) The permittee shall perform a daily operational inspection of the control devices when in operation.

**SECTION D. Source Level Requirements**

- b) The permittee shall operate the control devices at all times that the source is in operation.
- c) The source and control devices shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices.

**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: 640

Source Name: BLDG 64 POTASSIUM PRODUCTION

Source Capacity/Throughput:

210.000 Lbs/HR

POTASSIUM

6.000 MCF/HR

NATURAL GAS

Conditions for this source occur in the following groups: PM LIMIT FOR PROCESSES

**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 SO<sub>2</sub>, 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) and/or Section E (Source Group Restrictions).

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

The permittee shall monitor the following parameters of the control device (C281) during the daily inspection:

- 1) Scrubber liquid level greater than or equal to 37" and less than or equal to 58" while the process unit is in operation.
- 2) Scrubber liquid recirculation flow rate to each of (2) venturi spray nozzles (flow meters 4&5) is greater than or equal to 18 GPM while the process unit is in operation.
- 3) Process operating status.

**IV. RECORDKEEPING REQUIREMENTS.****# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

A daily log shall be maintained of the sources and collection systems when in operation. This log shall document that there are no emissions from the sources or collection systems that exceed the requirements of the plan approval. Additionally, a record of all preventative and corrective maintenance performed on the sources, collection systems, hoods and ductwork shall be maintained. The log shall be made available to Department personnel upon request and shall be maintained for a period of at least two years.

[PA: PA-10-047E condition 8]



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

- a) The permittee shall maintain records of the following from the operational inspections of the control device (C281):
- 1) Record Water Scrubber liquid level in electronic record keeping log; Compliance Records, Air Quality Operating Permit
  - 2) Record flow rates through each recirculation line in electronic record keeping log; Compliance Records, Air Quality Operating Permit
  - 3) Record status of production unit (idle or operating) in electronic record keeping log; Compliance Records, Air Quality Operating Permit
- b) The permittee shall maintain a record of all preventative maintenance inspections of the control device. These records shall, at a minimum, contain the dates of the inspections, any problems or defects, the actions taken to correct the problem or defect, and any routine maintenance performed.

**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 §127.12b]****Plan approval terms and conditions.**

The source and control device shall be operated and maintained in accordance with the manufacturer's specifications and within good engineering practice.

[PA: PA-10-047E conditions 6 & 7]

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

- a) The permittee shall perform a daily operational inspection of the control device when in operation.
- b) The permittee shall operate the control device at all times that the source is in operation.

**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: 861

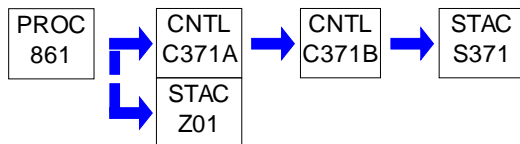
Source Name: BLDG 86 A&amp;B VACUUM CYLINDER CLEANING

Source Capacity/Throughput:

N/A

CLEANING CHEMICALS

Conditions for this source occur in the following groups: PM LIMIT FOR 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.****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The following parameters for the aftercooler (C371A) shall be monitored on an hourly basis:

1. Condenser oil outlet temperature less than or equal to 3°F while process unit is operating.
2. Process operating status.

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

a) The permittee shall maintain records of the following from the operational inspections:

1. Aftercooler (C371A):

- a) Outlet temperature shall be recorded on an hourly basis in an electric record keeping log; Compliance Records, Air Quality Operating Permit.
- b) Record status of production unit (idle or operating) in electronic log on an hourly basis; Compliance Records, Air Quality Operating Permit.

b) The permittee shall maintain a record of all preventative maintenance inspections of the control devices. These records shall, at a minimum, contain the dates of the inspections, any problems or defects, the actions taken to correct the problem or defects, and any routine maintenance performed.

**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).

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

- a) The permittee shall perform a daily operational inspection of the control devices when in operation.
- b) The permittee shall operate the control devices at all times that the source is in operation.
- c) The source and control devices shall be maintained and operated in accordance with the manufacturers' specifications and in accordance with good air pollution control practices. If required to deviate from the manufacturers' recommended operations or maintenance, all changes will be approved through the Management of Change procedure in accordance with OSHA Process Safety Management standards.

**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: 941

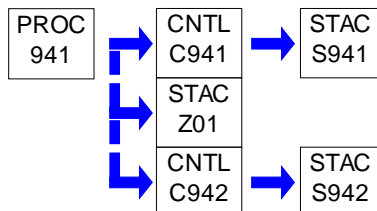
Source Name: BLDG 94 POWDER PACKAGING DUST COLLECTION

Source Capacity/Throughput:

N/A

DIGLYME

Conditions for this source occur in the following groups: PM LIMIT FOR 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.****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the following parameters with regards to the dust collectors:

1. C941
  - a) Pressure drop less than or equal to 6" of H<sub>2</sub>O when process unit is in operation.
2. C942
  - a) Pressure drop less than or equal to 2" of H<sub>2</sub>O when process unit is in operation.

**IV. RECORDKEEPING REQUIREMENTS.****# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

A daily log shall be maintained of the sources and collection systems when in operation. This log shall document that there are no emissions from the sources or collection systems that exceed the requirements of the plan approval. Additionally, a record of all preventative and corrective maintenance performed on the sources, collection systems, hoods, and duct work shall be maintained. The log shall be made available to Department personnel upon request and shall be maintained for at least five years.

[PA: PA-10-047G condition 10]

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

- a) The permittee shall maintain records of the following from the operational inspections:
  1. Dust Collectors (C941 & C942):
    - a) Site must record pressure drop and the operational status in electronic record keeping log on a daily basis;

**SECTION D. Source Level Requirements**

Compliance Records, Air Quality Operating Permit

b) The permittee shall maintain a record of all preventative maintenance inspections of the control device. These records shall, at a minimum, contain the dates of the inspections, any problems or defects, the actions taken to correct the problem or defects, and any routine maintenance performed.

**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.**

**# 004 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

a) The source and control device shall be operated and maintained in accordance with the manufacturer's specifications. If required to deviate from the manufacturer's recommended operations or maintenance, all changes will be approved through the Management of Change procedure in accordance with OSHA Process Safety Management standards.

b) The source and control device shall be operated and maintained within good engineering practice.

[PA: PA-10-047G conditions 7 & 8]

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

a) The permittee shall perform a daily operational inspection of the control device when in operation.

b) The permittee shall maintain a manometer or similar device to measure the pressure drop across the control device.

c) The permittee shall operate the control device at all times that the source is in operation.

**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: 980

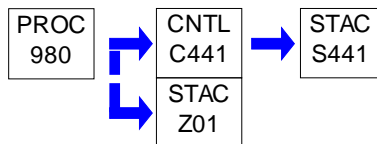
Source Name: BLDG 98 TANK FARM &amp; TRUCK STATION

Source Capacity/Throughput:

N/A

THF, VOCS

Conditions for this source occur in the following groups: PM LIMIT FOR 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.****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall monitor the following parameters for the control device (C441):

1. Condenser chilled oil inlet temperature maintain at or below -26°C when process unit is in operation, on an hourly basis.
2. Process operating status, on an hourly basis.

**# 002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.116b]****Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984****Monitoring of operations.**

- (a) The owner or operator shall keep copies of all records required by this section, except for the record required by paragraph (b) of this section, for at least 5 years. The record required by paragraph (b) of this section will be kept for the life of the source.
- (b) The owner or operator of each storage vessel as specified in §60.110b(a) shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.
- (c) Except as provided in paragraphs (f) and (g) of this section, the owner or operator of each storage vessel either with a design capacity greater than or equal to 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure greater than or equal to 3.5 kPa or with a design capacity greater than or equal to 75 m<sup>3</sup> but less than 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure greater than or equal to 15.0 kPa shall maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period.
- (d) Except as provided in paragraph (g) of this section, the owner or operator of each storage vessel either with a design capacity greater than or equal to 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure that is normally less than 5.2 kPa or with a design capacity greater than or equal to 75 m<sup>3</sup> but less than 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure that is normally less than 27.6 kPa shall notify the Administrator within 30 days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure values for each volume range.
- (e) Available data on the storage temperature may be used to determine the maximum true vapor pressure as determined below.

**SECTION D. Source Level Requirements**

(1) For vessels operated above or below ambient temperatures, the maximum true vapor pressure is calculated based upon the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service.

(2) For crude oil or refined petroleum products the vapor pressure may be obtained by the following:

(i) Available data on the Reid vapor pressure and the maximum expected storage temperature based on the highest expected calendar-month average temperature of the stored product may be used to determine the maximum true vapor pressure from nomographs contained in API Bulletin 2517 (incorporated by reference-see §60.17), unless the Administrator specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the sample(s).

(ii) The true vapor pressure of each type of crude oil with a Reid vapor pressure less than 13.8 kPa or with physical properties that preclude determination by the recommended method is to be determined from available data and recorded if the estimated maximum true vapor pressure is greater than 3.5 kPa.

(3) For other liquids, the vapor pressure:

(i) May be obtained from standard reference texts, or

(ii) Determined by ASTM D2879-83, 96, or 97 (incorporated by reference-see §60.17); or

(iii) Measured by an appropriate method approved by the Administrator; or

(iv) Calculated by an appropriate method approved by the Administrator.

(f) The owner or operator of each vessel storing a waste mixture of indeterminate or variable composition shall be subject to the following requirements.

(1) Prior to the initial filling of the vessel, the highest maximum true vapor pressure for the range of anticipated liquid compositions to be stored will be determined using the methods described in paragraph (e) of this section.

(2) For vessels in which the vapor pressure of the anticipated liquid composition is above the cutoff for monitoring but below the cutoff for controls as defined in §60.112b(a), an initial physical test of the vapor pressure is required; and a physical test at least once every 6 months thereafter is required as determined by the following methods:

(i) ASTM D2879-83, 96, or 97 (incorporated by reference-see §60.17); or

(ii) ASTM D323-82 or 94 (incorporated by reference-see §60.17); or

(iii) As measured by an appropriate method as approved by the Administrator.

(g) [Does not apply]

[52 FR 11429, Apr. 8, 1987, as amended at 65 FR 61756, Oct. 17, 2000; 65 FR 78276, Dec. 14, 2000; 68 FR 59333, Oct. 15, 2003]

**IV. RECORDKEEPING REQUIREMENTS.**

**# 003 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

a) The permittee shall maintain records of the following from the operational inspections:

1. Condenser (C441):

**SECTION D. Source Level Requirements**

- a) Record oil inlet temperature in electronic record keeping log; Compliance Records, Air Quality Operating Permit.
- b) Record status of production unit (idle or operating) in electronic record keeping log; Compliance Records, Air Quality Operating Permit.
- b) The permittee shall maintain a record of all preventative maintenance inspections of the control device. These records shall, at a minimum, contain the dates of the inspections, any problems or defects, the actions taken to correct the problem or defects, and any routine maintenance performed.

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

- a) The permittee shall perform a daily operational inspection of the control device when in operation.
- b) The permittee shall operate the control device at all times that the source is in operation.
- c) The source and control device shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices.

**# 005 [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 0.7 psig (4.8 kilopascals) of pressure or 0.3 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 25 PA Code 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.

=====  
[From 25 Pa. Code 129.56(g):]

For volatile organic compounds whose storage temperature is governed by ambient weather conditions, the vapor pressure under actual storage conditions shall be determined using a temperature which is representative of the average storage temperature for the hottest month of the year in which the storage takes place.

**VII. ADDITIONAL REQUIREMENTS.****# 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.110b]****Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984****Applicability and designation of affected facility.**

- (a) Except as provided in paragraph (b) of this section, the affected facility to which this subpart applies is each storage vessel with a capacity greater than or equal to 75 cubic meters (m<sup>3</sup>) that is used to store volatile organic liquids (VOL) for which construction, reconstruction, or modification is commenced after July 23, 1984.
- (b) This subpart does not apply to storage vessels with a capacity greater than or equal to 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure less than 3.5 kilopascals (kPa) or with a capacity greater than or equal to 75 m<sup>3</sup> but less than 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure less than 15.0 kPa.



**SECTION D. Source Level Requirements**

(c) [Reserved]

(d) - (e) [Do not apply]

[52 FR 11429, Apr. 8, 1987, as amended at 54 FR 32973, Aug. 11, 1989; 65 FR 78275, Dec. 14, 2000; 68 FR 59332, Oct. 15, 2003]

**# 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.111b]**

**Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984**

**Definitions.**

[Please refer to 40 CFR 60.111b for definitions related to 40 CFR 60 Subpart Kb.]

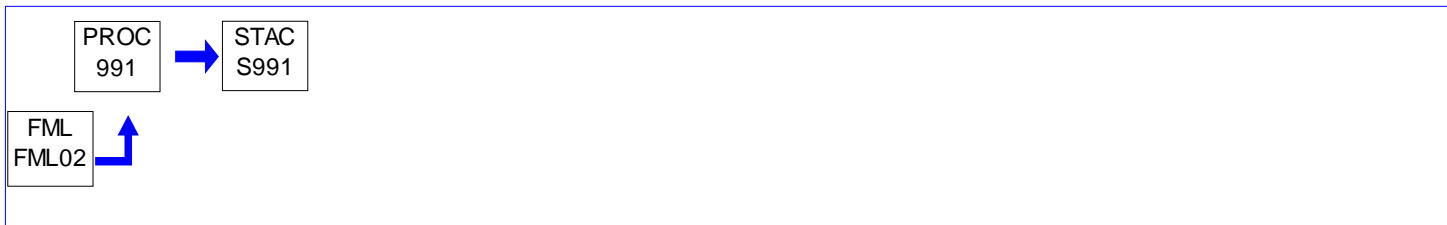
**SECTION D. Source Level Requirements**

Source ID: 991

Source Name: MISC EMERGENCY GENERATORS

Source Capacity/Throughput:	28.400 Gal/HR	Diesel Fuel
	2.000 MMBTU/HR	Natural Gas

Conditions for this source occur in the following groups: PM LIMIT FOR PROCESSES  
RICE MACT  
SI ICE NSPS

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

# 001 [25 Pa. Code §123.21]

**General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, 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) 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.**

# 002 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The source shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices.

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

**SECTION D. Source Level Requirements**

Source ID: 992

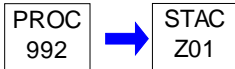
Source Name: MISCELLANEOUS STORAGE TANKS

Source Capacity/Throughput:

N/A

VOCS, GASOLINE, DIESEL

Conditions for this source occur in the following groups: PM LIMIT FOR 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.****# 001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11111]****Subpart CCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities****Am I subject to the requirements in this subpart?**

[Applicable to building 16 tank B99TT-9000, 550-gallon gasoline storage tank]

[From 40 CFR 63.11111(e):]

(e) An affected source shall, upon request by the Administrator, demonstrate that their monthly throughput is less than the 10,000-gallon or the 100,000-gallon threshold level, as applicable. For new or reconstructed affected sources, as specified in §63.11112(b) and (c), recordkeeping to document monthly throughput must begin upon startup of the affected source. For existing sources, as specified in §63.11112(d), recordkeeping to document monthly throughput must begin on January 10, 2008. For existing sources that are subject to this subpart only because they load gasoline into fuel tanks other than those in motor vehicles, as defined in §63.11132, recordkeeping to document monthly throughput must begin on January 24, 2011. Records required under this paragraph shall be kept for a period of 5 years.

**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.****# 002 [25 Pa. Code §129.57]****Storage tanks less than or equal to 40,000 gallons capacity containing VOCs**

[Applicable to the following tanks:

Building 37 tank B37T-1400, 2,000-gallon THF storage tank

Building 37 tank B37T-1430, 2,203-gallon methanol storage tank

Building 37 tank B37T-1460, 2,133-gallon recycled methanol storage tank]

**SECTION D. Source Level Requirements**

The provisions of this section 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 VOCs) 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.

=====  
 [From 25 Pa. Code 129.56(g):]

For volatile organic compounds whose storage temperature is governed by ambient weather conditions, the vapor pressure under actual storage conditions shall be determined using a temperature which is representative of the average storage temperature for the hottest month of the year in which the storage takes place.

**# 003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11115]**

**Subpart CCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities**

**What are my general duties to minimize emissions?**

[Applicable to building 16 tank B99TT-9000, 550-gallon gasoline storage tank]

Each owner or operator of an affected source under this subpart must comply with the requirements of paragraphs (a) and (b) of this section.

(a) You must, at all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

(b) [Does not apply]

[76 FR 4182, Jan. 24, 2011]

**# 004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11116]**

**Subpart CCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities**

**Requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline.**

[Applicable to building 16 tank B99TT-9000, 550-gallon gasoline storage tank]

(a) You must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:

- (1) Minimize gasoline spills;
- (2) Clean up spills as expeditiously as practicable;
- (3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;
- (4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

(b) You are not required to submit notifications or reports as specified in §63.11125, §63.11126, or subpart A of this part, but you must have records available within 24 hours of a request by the Administrator to document your gasoline throughput.

(c) You must comply with the requirements of this subpart by the applicable dates specified in §63.11113.

**SECTION D. Source Level Requirements**

(d) Portable gasoline containers that meet the requirements of 40 CFR part 59, subpart F, are considered acceptable for compliance with paragraph (a)(3) of this section.

[73 FR 1945, Jan. 10, 2008, as amended at 76 FR 4182, Jan. 24, 2011]

**VII. ADDITIONAL REQUIREMENTS.****# 005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11110]****Subpart CCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities****What is the purpose of this subpart?**

[Applicable to building 16 tank B99TT-9000, 550-gallon gasoline storage tank]

This subpart establishes national emission limitations and management practices for hazardous air pollutants (HAP) emitted from the loading of gasoline storage tanks at gasoline dispensing facilities (GDF). This subpart also establishes requirements to demonstrate compliance with the emission limitations and management practices.

**# 006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11111]****Subpart CCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities****Am I subject to the requirements in this subpart?**

[Applicable to building 16 tank B99TT-9000, 550-gallon gasoline storage tank]

(a) The affected source to which this subpart applies is each GDF that is located at an area source. The affected source includes each gasoline cargo tank during the delivery of product to a GDF and also includes each storage tank.

(b) If your GDF has a monthly throughput of less than 10,000 gallons of gasoline, you must comply with the requirements in §63.11116.

(c) - (d) [Do not apply]

(e) [Printed under Recordkeeping in this section of the permit.]

(f) If you are an owner or operator of affected sources, as defined in paragraph (a) of this section, you are not required to obtain a permit under 40 CFR part 70 or 40 CFR part 71 as a result of being subject to this subpart. However, you must still apply for and obtain a permit under 40 CFR part 70 or 40 CFR part 71 if you meet one or more of the applicability criteria found in 40 CFR 70.3(a) and (b) or 40 CFR 71.3(a) and (b).

(g) [Does not apply]

(h) Monthly throughput is the total volume of gasoline loaded into, or dispensed from, all the gasoline storage tanks located at a single affected GDF. If an area source has two or more GDF at separate locations within the area source, each GDF is treated as a separate affected source.

(i) If your affected source's throughput ever exceeds an applicable throughput threshold, the affected source will remain subject to the requirements for sources above the threshold, even if the affected source throughput later falls below the applicable throughput threshold.

(j) The dispensing of gasoline from a fixed gasoline storage tank at a GDF into a portable gasoline tank for the on-site delivery and subsequent dispensing of the gasoline into the fuel tank of a motor vehicle or other gasoline-fueled engine or equipment used within the area source is only subject to §63.11116 of this subpart.

(k) [Does not apply]

[73 FR 1945, Jan. 10, 2008, as amended at 76 FR 4181, Jan. 24, 2011]

**# 007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11112]****Subpart CCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities**

**SECTION D. Source Level Requirements****What parts of my affected source does this subpart cover?**

[Applicable to building 16 tank B99TT-9000, 550-gallon gasoline storage tank]

(a) The emission sources to which this subpart applies are gasoline storage tanks and associated equipment components in vapor or liquid gasoline service at new, reconstructed, or existing GDF that meet the criteria specified in §63.11111. Pressure/Vacuum vents on gasoline storage tanks and the equipment necessary to unload product from cargo tanks into the storage tanks at GDF are covered emission sources. The equipment used for the refueling of motor vehicles is not covered by this subpart.

(b) An affected source is a new affected source if you commenced construction on the affected source after November 9, 2006, and you meet the applicability criteria in §63.11111 at the time you commenced operation.

(c) An affected source is reconstructed if you meet the criteria for reconstruction as defined in §63.2.

(d) An affected source is an existing affected source if it is not new or reconstructed.

**# 008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11113]****Subpart CCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities****When do I have to comply with this subpart?**

[Applicable to building 16 tank B99TT-9000, 550-gallon gasoline storage tank]

(a) [Does not apply]

(b) If you have an existing affected source, you must comply with the standards in this subpart no later than January 10, 2011.

(c) If you have an existing affected source that becomes subject to the control requirements in this subpart because of an increase in the monthly throughput, as specified in §63.11111(c) or §63.11111(d), you must comply with the standards in this subpart no later than 3 years after the affected source becomes subject to the control requirements in this subpart.

(d) - (f) [Do not apply]

**# 009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11130]****Subpart CCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities****What parts of the General Provisions apply to me?**

[Applicable to building 16 tank B99TT-9000, 550-gallon gasoline storage tank]

Table 3 to this subpart shows which parts of the General Provisions apply to you. [Refer to Table 3 in 40 CFR 63 Subpart CCCCC]

**# 010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11132]****Subpart CCCCC - National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities****What definitions apply to this subpart?**

[Please refer to 40 CFR 63.11132 for definitions applicable to Subpart CCCCC.]

**SECTION E. Source Group Restrictions.**

Group Name: PM LIMIT FOR PROCESSES

Group Description: 123.13 limit for processes

Sources included in this group

ID	Name
121	SUPEROXIDE PROCESS
241	BLDG 24 ALKYLBORANE PRODUCTION
281	HOOD 1B
311	BLDG 31 PRODUCT & PROCESS DEVELOPMENT
312	BLDG 31 R&D
341	BLDG 34 LABORATORY ACTIVITIES, R&D/QC
371	BLDG 37 BORANES DERIVATIVES
374	BLDG 37 BAG FILLING STATION
376	BLDG 37 BORANES DERIVATIVES HYDROGEN VENT
431	BLDG 43 HOT OIL FURNACE
441	BLDG 44 ALCOHOLATES PRODUCTION
443	BLDG 44 DRYERS & POWDER PACKAGING
444	BLDG 44 PILOT PLANT
446	BLDG 44 FILTER DEACTIVATION
640	BLDG 64 POTASSIUM PRODUCTION
861	BLDG 86 A&B VACUUM CYLINDER CLEANING
941	BLDG 94 POWDER PACKAGING DUST COLLECTION
980	BLDG 98 TANK FARM & TRUCK STATION
990	MISC NAT GAS COMBUSTION (< 2.5 MMBTU/HR)
991	MISC EMERGENCY GENERATORS
992	MISCELLANEOUS STORAGE TANKS

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

# 001 [25 Pa. Code §123.13]

**Processes**

No person may permit the emission into the outdoor atmosphere of particulate matter in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

**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).



**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).

**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: RICE MACT

Group Description: 40 CFR Part 63 Subpart ZZZZ

Sources included in this group

ID	Name
991	MISC EMERGENCY GENERATORS

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

(a) - (d) [Do not apply]

(e) If you own or operate any of the following stationary RICE, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions:

(1) - (2) [Do not apply]

(3) An existing emergency or black start stationary RICE located at an area source of HAP emissions;

(4) - (10) [Do not apply]

(f) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed.

(g) [Does not apply]

(h) If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.

(i) If you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as

**SECTION E. Source Group Restrictions.**

part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

(j) If you own or operate a stationary SI engine that is subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to this subpart or in items 5, 6, 7, 9, or 11 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010; 76 FR 12866, Mar. 9, 2011; 78 FR 6703, Jan. 30, 2013]

**IV. RECORDKEEPING REQUIREMENTS.****# 002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6655]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What records must I keep?**

(a) If you must comply with the emission and operating limitations, you must keep the records described in paragraphs (a)(1) through (a)(5), (b)(1) through (b)(3) and (c) of this section.

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

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

(3) [Does not apply]

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

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

(b) - (c) [Do not apply]

(d) You must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to you.

(e) You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE;

(1) [Does not apply]

(2) An existing stationary emergency RICE.

**SECTION E. Source Group Restrictions.**

(3) An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to this subpart.

(f) If you own or operate any of the stationary RICE in paragraphs (f)(1) through (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in §63.6640(f)(2)(ii) or (iii) or §63.6640(f)(4)(ii), the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.

(1) [Does not apply]

(2) An existing emergency stationary RICE located at an area source of HAP emissions that does not meet the standards applicable to non-emergency engines.

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010; 75 FR 51592, Aug. 20, 2010; 78 FR 6706, Jan. 30, 2013]

**# 003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6660]**

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

**In what form and how long must I keep my records?**

(a) Your records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010]

**V. REPORTING REQUIREMENTS.**

**# 004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]**

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

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

(a) [Printed under Work Practice Requirements]

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

(c) - (d) [Do not apply]

(e) You must also report each instance in which you did not meet the requirements in Table 8 of this subpart that apply to you. [Non-applicable text omitted]

(f) If you own or operate an emergency stationary RICE, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1) through (4) of this section. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1)

**SECTION E. Source Group Restrictions.**

through (4) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

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

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

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

(ii) - (iii) [Paragraphs 63.6640(f)(2)(ii)-(iii) were vacated by the U.S. Court of Appeals on May 1, 2015.]

(3) [Does not apply]

(4) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraphs (f)(4)(i) and (ii) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(i) - (ii) [Do not apply]

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010; 78 FR 6704, Jan. 30, 2013]

**# 005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6645]**

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

**What notifications must I submit and when?**

(a) You must submit all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified if you own or operate any of the following;

(1) [Does not apply]

(2) An existing stationary RICE located at an area source of HAP emissions.

(3) - (4) [Do not apply]

(5) This requirement does not apply if you own or operate an existing stationary RICE less than 100 HP, an existing stationary emergency RICE, or an existing stationary RICE that is not subject to any numerical emission standards.

(b) - (i) [Do not apply]

[73 FR 3606, Jan. 18, 2008, as amended at 75 FR 9677, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010; 78 FR 6705, Jan. 30, 2013]

**VI. WORK PRACTICE REQUIREMENTS.**

**# 006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6603]**

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

**SECTION E. Source Group Restrictions.****What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?**

(a) If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart and the operating limitations in Table 2b to this subpart that apply to you.

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[From Table 2d]

4. For each emergency stationary CI RICE\*\*, you must meet the following requirement, except during periods of startup:

- a. Change oil and filter every 500 hours of operation or annually, whichever comes first;\*
- b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
- c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

5. For each emergency stationary SI RICE\*\*, you must meet the following requirement, except during periods of startup:

- a. Change oil and filter every 500 hours of operation or annually, whichever comes first;\*
- b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
- c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

During periods of startup you must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

\*[Sources have the option to utilize an oil analysis program as described in §63.6625(i) or (j) in order to extend the specified oil change requirement in Table 2d of this subpart.]

\*\*[If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of this subpart, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable.]

[78 FR 6709, Jan. 30, 2013]

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(b) - (f) [Do not apply]

[75 FR 9675, Mar. 3, 2010, as amended at 75 FR 51589, Aug. 20, 2010; 76 FR 12866, Mar. 9, 2011; 78 FR 6701, Jan. 30, 2013]

**# 007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?**

(a) You must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you according to methods specified in Table 6 to this subpart.

[The requirements from Table 2d are listed in the "Work Practice Requirements" section under 40 CFR 63.6603.]

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[From Table 6]

9. For each existing emergency RICE located at an area source of HAP, complying with the work or management practices must demonstrate continuous compliance by:

- i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and

**SECTION E. Source Group Restrictions.**

maintenance instructions; or

ii. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[78 FR 6715, Jan. 30, 2013]

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(b) - (f) [Printed under Reporting Requirements]

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010; 78 FR 6704, Jan. 30, 2013]

**VII. ADDITIONAL REQUIREMENTS.****# 008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6580]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What is the purpose of subpart ZZZZ?**

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

[73 FR 3603, Jan. 18, 2008]

**# 009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****Am I subject to this subpart?**

You are subject to this subpart if you own or operate a stationary RICE at a major or area source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/stand.

(a) A stationary RICE is any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.

(b) A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site.

(c) An area source of HAP emissions is a source that is not a major source.

(d) If you are an owner or operator of an area source subject to this subpart, your status as an entity subject to a standard or other requirements under this subpart does not subject you to the obligation to obtain a permit under 40 CFR part 70 or 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart as applicable.

(e) - (f) [Do not apply]

[69 FR 33506, June 15, 2004, as amended at 73 FR 3603, Jan. 18, 2008; 78 FR 6700, Jan. 30, 2013]

**# 010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6590]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What parts of my plant does this subpart cover?**

This subpart applies to each affected source.

**SECTION E. Source Group Restrictions.**

(a) Affected source. An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand.

(1) Existing stationary RICE.

(i) - (ii) [Do not apply]

(iii) For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

(iv) A change in ownership of an existing stationary RICE does not make that stationary RICE a new or reconstructed stationary RICE.

(2) - (3) [Do not apply]

(b) - (c) [Do not apply]

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008; 75 FR 9674, Mar. 3, 2010; 75 FR 37733, June 30, 2010; 75 FR 51588, Aug. 20, 2010; 78 FR 6700, Jan. 30, 2013]

**# 011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6595]**

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

**When do I have to comply with this subpart?**

(a) Affected Sources. (1) If you have an existing stationary CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations and other requirements no later than May 3, 2013. If you have an existing stationary SI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations and other requirements no later than October 19, 2013. [Non-applicable text omitted]

(2) - (7) [Do not apply]

(b) - (c) [Do not apply]

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008; 75 FR 9675, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010; 78 FR 6701, Jan. 30, 2013]

**# 012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6605]**

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

**What are my general requirements for complying with this subpart?**

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

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

[75 FR 9675, Mar. 3, 2010, as amended at 78 FR 6702, Jan. 30, 2013]

**# 013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6665]**

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

**What parts of the General Provisions apply to me?**



**SECTION E. Source Group Restrictions.**

Table 8 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you. [Non-applicable text omitted]

[75 FR 9678, Mar. 3, 2010]

**# 014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6670]**

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

**Who implements and enforces this subpart?**

(a) This subpart is implemented and enforced by the U.S. EPA, or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency (as well as the U.S. EPA) has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out whether this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under 40 CFR part 63, subpart E, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are:

- (1) Approval of alternatives to the non-opacity emission limitations and operating limitations in §63.6600 under §63.6(g).
- (2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f) and as defined in §63.90.
- (3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.
- (4) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.
- (5) Approval of a performance test which was conducted prior to the effective date of the rule, as specified in §63.6610(b).

**# 015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6675]**

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

**What definitions apply to this subpart?**

[Please refer to 40 CFR 63.6675 for definitions related to 40 CFR 63 Subpart ZZZZ.]

**SECTION E. Source Group Restrictions.**

Group Name: SI ICE NSPS

Group Description: 40 CFR 60 Subpart JJJJ for the Gatehouse Emergency Generator

Sources included in this group

ID	Name
991	MISC EMERGENCY GENERATORS

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4233]****Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What emission standards must I meet if I am an owner or operator of a stationary SI internal combustion engine?**

[Applicable to Gatehouse Emergency Generator]

(a) - (d) [Do not apply]

(e) Owners and operators of stationary SI ICE with a maximum engine power greater than or equal to 75 KW (100 HP) (except gasoline and rich burn engines that use LPG) must comply with the emission standards in Table 1 to this subpart for their stationary SI ICE. For owners and operators of stationary SI ICE with a maximum engine power greater than or equal to 100 HP (except gasoline and rich burn engines that use LPG) manufactured prior to January 1, 2011 that were certified to the certification emission standards in 40 CFR part 1048 applicable to engines that are not severe duty engines, if such stationary SI ICE was certified to a carbon monoxide (CO) standard above the standard in Table 1 to this subpart, then the owners and operators may meet the CO certification (not field testing) standard for which the engine was certified.

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Table 1 to Subpart JJJJ of Part 60—NOX, CO, and VOC Emission Standards for Stationary Emergency Engines &gt;25 HP

Engine type and fuel	Emergency	
Maximum engine power	HP>=130	
Manufacture date	1/1/2009	
Emission standards*	(g/HP-hr)	(ppmvd at 15% O2)
NOx	2.0	160
CO	4.0	540
VOC**	1.0	86

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

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

[76 FR 37975, June 28, 2011]

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(f) - (h) [Do not apply]

[73 FR 3591, Jan. 18, 2008, as amended at 76 FR 37973, June 28, 2011]

**# 002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4236]****Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What is the deadline for importing or installing stationary SI ICE produced in the previous model year?**

[Applicable to Gatehouse Emergency Generator]

(a) - (b) [Do not apply]

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

**SECTION E. Source Group Restrictions.**

(d) - (e) [Do not apply]

**Operation Hours Restriction(s).****# 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]****Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines****What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?**

[Applicable to Gatehouse Emergency Generator]

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

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

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

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

(ii) - (iii) [Paragraphs 60.4243(d)(2)(ii)-(iii) were vacated by the U.S. Court of Appeals on May 1, 2015.]

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

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

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

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

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

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

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional,

**SECTION E. Source Group Restrictions.**

state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

(ii) [Reserved]

[73 FR 3591, Jan. 18, 2008, as amended at 76 FR 37974, June 28, 2011; 78 FR 6697, Jan. 30, 2013]

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

**# 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4237]  
Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines  
What are the monitoring requirements if I am an owner or operator of an emergency stationary SI internal combustion engine?**

[Applicable to Gatehouse Emergency Generator]

(a) [Does not apply]

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

(c) [Does not apply]

**IV. RECORDKEEPING REQUIREMENTS.**

**# 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]  
Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines  
What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?**

[Applicable to Gatehouse Emergency Generator]

Owners or operators of stationary SI ICE must meet the following notification, reporting and recordkeeping requirements.

(a) Owners and operators of all stationary SI ICE must keep records of the information in paragraphs (a)(1) through (4) of this section.

(1) All notifications submitted to comply with this subpart and all documentation supporting any notification.

(2) Maintenance conducted on the engine.

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

(4) [Does not apply]

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

**SECTION E. Source Group Restrictions.**

(c) - (d) [Do not apply]

(e) If you own or operate an emergency stationary SI ICE with a maximum engine power more than 100 HP that operates for the purposes specified in §60.4243(d)(3)(i), you must submit an annual report according to the requirements in paragraphs (e)(1) through (3) of this section. [Non-applicable text omitted.]

(1) The report must contain the following information:

(i) Company name and address where the engine is located.

(ii) Date of the report and beginning and ending dates of the reporting period.

(iii) Engine site rating and model year.

(iv) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.

(v) - (vi) [Do not apply]

(vii) Hours spent for operation for the purposes specified in §60.4243(d)(3)(i), including the date, start time, and end time for engine operation for the purposes specified in §60.4243(d)(3)(i). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.

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

(3) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) ([www.epa.gov/cdx](http://www.epa.gov/cdx)). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in §60.4.

[73 FR 3591, Jan. 18, 2008, as amended at 73 FR 59177, Oct. 8, 2008; 78 FR 6697, Jan. 30, 2013; 81 FR 59809, Aug. 30, 2016]

**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.**

**# 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4234]  
Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines  
How long must I meet the emission standards if I am an owner or operator of a stationary SI internal combustion engine?**

[Applicable to Gatehouse Emergency Generator]

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

**# 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]  
Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines  
What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?**

[Applicable to Gatehouse Emergency Generator]

(a) [Does not apply]

(1) If you operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, you must keep records of conducted maintenance to demonstrate

**SECTION E. Source Group Restrictions.**

compliance, but no performance testing is required if you are an owner or operator. You must also meet the requirements as specified in 40 CFR part 1068, subparts A through D, as they apply to you. If you adjust engine settings according to and consistent with the manufacturer's instructions, your stationary SI internal combustion engine will not be considered out of compliance.

(2) If you do not operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, your engine will be considered a non-certified engine, and you must demonstrate compliance according to (a)(2)(i) through (iii) of this section, as appropriate.

(i) [Does not apply]

(ii) If you are an owner or operator of a stationary SI internal combustion engine greater than or equal to 100 HP and less than or equal to 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test within 1 year of engine startup to demonstrate compliance.

(iii) [Does not apply]

(b) If you are an owner or operator of a stationary SI internal combustion engine and must comply with the emission standards specified in §60.4233(d) or (e), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) and (2) of this section.

(1) Purchasing an engine certified according to procedures specified in this subpart, for the same model year and demonstrating compliance according to one of the methods specified in paragraph (a) of this section.

(2) [Does not apply]

(c) [Does not apply]

(d) [Printed under Operation Hours Restrictions]

(e) - (f) [Do not apply]

(g) It is expected that air-to-fuel ratio controllers will be used with the operation of three-way catalysts/non-selective catalytic reduction. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.

(h) - (i) [Do not apply]

[73 FR 3591, Jan. 18, 2008, as amended at 76 FR 37974, June 28, 2011; 78 FR 6697, Jan. 30, 2013]

**VII. ADDITIONAL REQUIREMENTS.**

**# 008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4230]  
Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines  
Am I subject to this subpart?**

[Applicable to Gatehouse Emergency Generator]

(a) The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary spark ignition (SI) internal combustion engines (ICE) as specified in paragraphs (a)(1) through (6) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.

(1) - (3) [Do not apply]

(4) Owners and operators of stationary SI ICE that commence construction after June 12, 2006, where the stationary SI ICE are manufactured:

**SECTION E. Source Group Restrictions.**

(i) - (ii) [Do not apply]

(iii) on or after July 1, 2008, for engines with a maximum engine power less than 500 HP; or

(iv) on or after January 1, 2009, for emergency engines with a maximum engine power greater than 19 KW (25 HP).

(5) [Does not apply]

(6) The provisions of §60.4236 of this subpart are applicable to all owners and operators of stationary SI ICE that commence construction after June 12, 2006.

(b) The provisions of this subpart are not applicable to stationary SI ICE being tested at an engine test cell/stand.

(c) If you are an owner or operator of an area source subject to this subpart, you are exempt from the obligation to obtain a permit under 40 CFR part 70 or 40 CFR part 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart as applicable.

(d) - (f) [Do not apply]

[73 FR 3591, Jan. 18, 2008, as amended at 76 FR 37972, June 28, 2011]

**# 009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4246]  
Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines  
What parts of the General Provisions apply to me?**

[Applicable to Gatehouse Emergency Generator]

Table 3 to this subpart shows which parts of the General Provisions in §§60.1 through 60.19 apply to you. [Please refer to Table 3 in Subpart JJJJ]

**# 010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4248]  
Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines  
What definitions apply to this subpart?**

[Please refer to 40 CFR 60.4248 for definitions applicable to Subpart JJJJ.]



**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this permit.



**SECTION G. Emission Restriction Summary.**

Source Id	Source Descriptor			
161	BLDG 16 BOILER (B16B-1002)			
<b>Emission Limit</b>				<b>Pollutant</b>
4.000	Lbs/MMBTU	over any 1-hour period		SOX
0.400	Lbs/MMBTU			TSP
721	BLDG 72 BOILER (B72B-1001)			
<b>Emission Limit</b>				<b>Pollutant</b>
300.000	PPMV	dry basis, 3% O2		CO
30.000	PPMV	dry basis, 3% O2		NOX
4.000	Lbs/MMBTU	over any 1-hour period		SOX
0.400	Lbs/MMBTU			TSP
990	MISC NAT GAS COMBUSTION (< 2.5 MMBTU/HR)			
<b>Emission Limit</b>				<b>Pollutant</b>
4.000	Lbs/MMBTU	over any 1-hour period		SOX
0.040	gr/DRY FT3			TSP
121	SUPEROXIDE PROCESS			
<b>Emission Limit</b>				<b>Pollutant</b>
0.040	gr/DRY FT3			TSP
241	BLDG 24 ALKYLBORANE PRODUCTION			
<b>Emission Limit</b>				<b>Pollutant</b>
500.000	PPMV	dry basis		SOX
0.040	gr/DRY FT3			TSP
281	HOOD 1B			
<b>Emission Limit</b>				<b>Pollutant</b>
0.040	gr/DRY FT3			TSP
311	BLDG 31 PRODUCT & PROCESS DEVELOPMENT			
<b>Emission Limit</b>				<b>Pollutant</b>
500.000	PPMV	dry basis		SOX
0.040	gr/DRY FT3			TSP
312	BLDG 31 R&D			
<b>Emission Limit</b>				<b>Pollutant</b>
0.040	gr/DRY FT3			TSP
341	BLDG 34 LABORATORY ACTIVITIES, R&D/QC			
<b>Emission Limit</b>				<b>Pollutant</b>
0.040	gr/DRY FT3			TSP

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description	Emission Limit	Pollutant
371	BLDG 37 BORANES DERIVATIVES	0.040 gr/DRY FT3	TSP
374	BLDG 37 BAG FILLING STATION	0.040 gr/DRY FT3	TSP
376	BLDG 37 BORANES DERIVATIVES HYDROGEN VENT	0.040 gr/DRY FT3	TSP
431	BLDG 43 HOT OIL FURNACE	500.000 PPMV 0.040 gr/DRY FT3	SOX TSP
441	BLDG 44 ALCOHOLATES PRODUCTION	0.040 gr/DRY FT3	TSP
443	BLDG 44 DRYERS & POWDER PACKAGING	0.040 gr/DRY FT3	TSP
444	BLDG 44 PILOT PLANT	0.040 gr/DRY FT3	TSP
446	BLDG 44 FILTER DEACTIVATION	0.040 gr/DRY FT3	TSP
640	BLDG 64 POTASSIUM PRODUCTION	500.000 PPMV 0.040 gr/DRY FT3	SOX TSP
861	BLDG 86 A&B VACUUM CYLINDER CLEANING	0.040 gr/DRY FT3	TSP

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description			Emission Limit	Pollutant
941	BLDG 94 POWDER PACKAGING DUST COLLECTION			0.040 gr/DRY FT3	TSP
980	BLDG 98 TANK FARM & TRUCK STATION			0.040 gr/DRY FT3	TSP
991	MISC EMERGENCY GENERATORS			4.000 GRAMS/HP-Hr	Gatehouse Emergency Generator CO
	2.000	GRAMS/HP-Hr	Gatehouse Emergency Generator		NOX
	500.000	PPMV	dry basis		SOX
	0.040	gr/DRY FT3			TSP
	1.000	GRAMS/HP-Hr	Gatehouse Emergency Generator		VOC
992	MISCELLANEOUS STORAGE TANKS			0.040 gr/DRY FT3	TSP

**Site Emission Restriction Summary**

Emission Limit	Pollutant
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**SECTION H. Miscellaneous.**

- a) The Capacity/Throughput numbers listed on Pages 4 & 5 and provided in Section D of this permit for individual sources are for informational purposes only and are not to be considered enforceable limits. Enforceable emission limits are listed in the Restriction section for each source. They are also summarized for informational purposes only in Section F.
- b) Source ID: Department assigned ID number for the source  
Source Name: Department assigned name for the source  
Capacity: The maximum capacity for the source (not a limit)  
Fuel/Material: The fuel/material assigned to SCC for the source  
Schematics:  
FML: Fuel material location  
Comb: Combustion source  
Proc: Process  
CD: Control device  
EP: Emission point  
Pollutants:  
P000: Particulate matter
- c) For the purpose of this permit, ID 121 (Bldg 12 and 84 Superoxide Process) is part of the MOX production area and consists of the following:
1. Feed Tank (12TT - 1200) --> Demister (C121A, 12FG - 1301)
  2. Spray Cabinet (B12Z - 8100) --> Demister (C121B, 12FG - 1302)
  3. Fluff Blender (84M - 3002)
  4. Day Mixer (84M - 3100)
  5. Press (84SR - 3101)
  6. Granulator (84SR - 3104)
  7. Fines bin (84TT - 3107)
  8. Screener (84S - 3105)
  9. Packaging
- d) For the purpose of this permit, ID 161 (Bldg 16 Boiler) consists of the following:
1. 10.5 mmbtu natural gas-fired boiler (16B - 1002). Manufactured by North America Manufacturing, model # AB 4121-10.5-C12, installation date: 1966.
- e) For the purpose of this permit, ID 241 (Bldg 24 Alkylborane Production) is part of the Alkylboranes & PPD production area and consists of the following:
1. Eight (8) Reactors:
    - a) 24R - 0800
    - b) 24R - 0500
    - c) 24F - 1000
    - d) 24R - 0050
    - e) 24R - 0550
    - f) 24R - 0100
    - g) 24R - 0200
    - h) 24R - 0400
  2. Filter Dryer (24F - 1000)
  3. Storage Tank (B24TT - 0104)
  4. Controls:  
C241A (Methanol Scrubber, B24TT - 0700) --> C241B (Water Scrubber, B24TT - 0800) --> C241C (Flare, 24B - 0900) --> S241 (Stack)
- f) For the purpose of this permit, ID 281 (Hood 1B) is part of the MOX production area and consists of the following:
1. Blower (28BL - 1131) --> Scrubber (C281, 28FG - 1100)
  2. Pump (28PU - 1105)
- g) For the purpose of this permit, ID 311 (Bldg 31 Product & Process Development) is part of the Alkylboranes & PPD production

**SECTION H. Miscellaneous.**

area and consists of the following:

1. Three (3) Reactors:
  - a) 31V - 0500
  - b) 31V - 0550
  - c) 31V - 0600
2. Filter Dryer (31F - 1400)
3. Controls:
  - a) C241 --> C241A --> C241B --> S241
  - b) C311 --> S311  
-->S312

h) For the purpose of this permit, ID 312 (Bldg 31 R&D) consists of the following:

1. Building 31 Drum Cleaning Hood (31EF - 0118) - -> Carbon filter
2. Lab Hood 1 - -> Carbon Filters C & D (B31EF - 1030 & 1040)
3. Lab Hood 2 - -> Carbon Filter E (B31EF - 1050)
4. Lab Hood 3 - -> Carbon Filters A & B (B31EF - 1010 & 1020)
5. Cabinet Vent Hood - -> Carbon Filter F (B31EF - 1060)
6. Lab Hood 4 - -> Carbon Filter G (B31EF - 1070)

[Carbon filters due to their location are not required to be visually inspected as part of the daily operational inspection. These filters will have the required preventative maintenance performed as required by the manufacturer and a check of the surrounding areas will be performed for the detection of odors (breakthrough)]

i) For the purpose of this permit, ID 341 (Bldg 34 Laboratory Activities, R&D/QC) consists of the following:

1. Lab hoods --> C341 (Carbon Filters)

j) For the purpose of this permit, ID 371 (Bldg 37 Boranes Derivatives) is part of the Boranes production area and consists of the following:

1. Building 37
  - a) Methanol scrubber cooler (37E - 7140)
  - b) Storage Tanks (37T - 1400) (2,000 gallon)
  - c) Storage Tanks (37T - 1430, T - 1460) (2,000 gallon ea)
  - d) Storage Tanks (37T - 1100, T - 1160) (3,000 gallon ea)
  - e) Emergency Relief Tank (37T - 7000) (1,000 gallon)
  - f) Reactors (37R - 1500, - 1600)
  - g) Slurry tank (37V - 6100)
  - h) Pan dryers (37M - 6200, M - 6260)
  - i) MeOH scrubber (37M - 7100)
  - j) Diborane reactors (37R - 2100, -2200)
  - k) Diborane storage (37T - 4180)
2. Building 94
  - a) Tank (94TK - 0100) (1,000 gallon)
  - b) Distillation Column (94T - 0510)
  - c) Distillation Receiver (94TK - 0410)
  - d) Reactor/Distillation Reboiler (94TK - 0500)
  - e) Filter dryer (94F - 1000)
3. Controls:
  - a) C371A (Chilled oil condenser, B37E - 7160) --> C371B (Carbon Adsorption, 37M - 7190)
  - b) C376 (Chilled oil condenser, B37E - 1150)

k) For the purpose of this permit, ID 374 (Building 37 Bag Filling Station) is part of the Boranes production area and consists of the following:

1. Bag Filling Station & Filter Hood (37M - 6600)
2. Vacuum Drying Receiver (37V - 6360)

**SECTION H. Miscellaneous.**

## 3. Controls:

- a) C374A (Aqueous Scrubber, 37M - 7150) --> C374B (Carbon Adsorption, 37M - 7190)

l) For the purpose of this permit, ID 376 (Building 37 Boranes Derivatives Hydrogen Vent) is part of the Boranes production area and consists of the following:

1. Reactor hydrogen vent (37E - 1150, 37TK - 0300)
2. Control: C376

m) For the purpose of this permit, ID 431 (Bldg 43 Hot Oil Furnace) consists of the following:

1. 2.6 mmBtu/hr natural gas-fired furnace

n) For the purpose of this permit, ID 440 (Heated t-Butanol Storage Tanks) is part of the Alcoholates production area and consists of the following:

1. 10,000-gal tank (44TT - 0101)
2. 8,000-gal tank (44TT - 0102)

o) For the purpose of this permit, ID 441 (Bldg 44 Alcoholates Production) is part of the Alcoholates production area and consists of the following:

1. Reactor (44R - 0901) --> C441 (B44E - 0875)
2. Reactor (44R - 1201) --> C441 (B44E - 1175)
3. Control: C441 is two condensers (B44E - 0875 & 1175)

p) For the purpose of this permit, ID 443 (Building 44 Dryers & Powder Packaging) is part of the Alcoholates production area and consists of the following:

1. Dryers & Packing system (44D - 1601 & 1501, 44TK - 0076 & 0077, 44BL - 0062) --> C443 (Knockout Canisters, 44FG - 0059, - 0060, - 0061)
2. Vapor recompression system/recycle tanks (44PU - 1606; 44E - 1610; 44TT - 1603; 44FG - 0060)
3. Controls:
  - a) C443
  - b) C441A

q) For the purpose of this permit, ID 444 (Bldg 44 Pilot Plant) is part of the Alcoholates production area and consists of the following:

1. Pilot plant equipment/vent heater (44R - 3200; 44TT - 3202, - 3201, - 3301; 44D - 3300) --> C444 (Chilled Oil Condenser, 44E - 3210)
2. Control: C444

r) For the purpose of this permit, ID 446 (Bldg 44 Filter Deactivation) is part of the Alcoholates production area and consists of the following:

1. Filter Treatment (44TK - 2050) --> C441A (Emergency Chilled Oil Condenser, 44E - 1700)
2. Control: C441A

s) For the purpose of this permit, ID 640 (Bldg 64 Potassium Production) is part of the MOX production area and consists of the following:

1. Natural gas furnaces
  - a) Salt pot furnaces (64B - 0206 & 0207) (1.5 mmbtu/hr each)
  - b) Potassium Columns (64B - 0401, - 0402, - 0403, & - 0404) (0.75 mmbtu/hr each)
2. Salt pot (64TK - 0201)
3. Chicklet feed hopper dust collectors (64FG - 4500)
4. Surge Tank (64TK - 0601)
5. Bubblers (TK - 0650 & 0651)

**SECTION H. Miscellaneous.**

5. Hood 2 - PBR
6. Control: C281

t) For the purpose of this permit, ID 721 (Bldg 72 Boiler) consists of the following:

1. 14.6 mmbtu natural gas-fired boiler (72B - 1001). Manufactured by Cleaver Brooks, model # CB 200-350, installed 9/2013.

u) For the purpose of this permit, ID 861 (Bldg 86 A & B Vacuum Cylinder Cleaning) is part of the Boranes production area and consists of the following:

1. Bldg 86 dry racks and cylinder washing - vents to P371

v) For the purpose of this permit, ID 941 (Bldg 94 Powder Packaging Dust Collection) is part of the Boranes production area and consists of the following:

1. Filter dryer powder packaging
2. Control Devices:
  - a) Dust Collector (C941, 94FG - 0730)
  - b) Portable Dust Collector (C942, 94FG - 3500)

w) For the purpose of this permit, ID 980 (Bldg 98 Tank Farm and Truck Station) are part of the alcoholates production area and consists of the following:

1. 5 Tanks each with a capacity of 20,000 gallons
  - a) 98TK-0100
  - b) 98TK-0200
  - c) 98TK-0300
  - d) 98TK-0400
  - e) 98TK-0500
2. Truck Loading (B98)

x) For the purpose of this permit, ID 990 (Misc Natural Gas Consumption - < 2.5 mmbtu/hr) consists of the following:

1. Building 44 Heater/AC (74,000 btu/hr)
2. Building 20 Two (2) Dayton heater units (ceiling mounted); each unit = 202,500 btu/hr
3. Building 24 Heater/AC (365,000 btu/hr)
4. Building 31 Make-up heaters
  - a. B31HV - 1060 (228,000 btu/hr)
  - b. B31HV - 1050 (304,000 btu/hr)
  - c. B31HV - 1030 (400,000 btu/hr)
  - d. B31HV - 1020 (350,000 btu/hr)
  - e. B31HV - 1010 (400,000 btu/hr)
5. Building 31
  - a. Lab Heater/AC (1,140,000 btu/hr)
  - b. Glass Heater/AC (600,000 btu/hr)
6. Building 64 Heater/AC (B64HV - 0002) (120,000 btu/hr)
7. Building 64 Heater/AC (80,000 btu/hr)
8. Building 64 Make-up heater (B64HV - 0001) (550,000 btu/hr)
9. Building 64 Process Torch (1,000,000 btu/hr)
10. Building 64 DH Units (480,000 btu/hr)
11. Miscellaneous Space Heaters (6,890,000 btu/hr)

(y) For the purpose of this permit, ID 991 (Misc Emergency Generators) consists of the following:

1. B34 Emergency Generator, 20 kW, Cummins Onan GenSet, 4-cyl. (34PM - 0130), lean burn, 4-stroke, SI natural gas-fueled engine, 56 HP
2. Gravel Lot Emergency Generator, Cummins, V-8 cyl., 150 kW, lean burn, 4-stroke, SI natural gas-fueled, Model # GGLB-7628835, 277 HP engine
3. B48 Emergency Generator, 250 kW, Cummins / Komatsu, 6-cyl. (48PM - 1010), lean burn, 4-stroke, CI diesel-fueled engine,

**SECTION H. Miscellaneous.**

Model # 0611OTA, 380 HP engine

4. B74U Emergency Generator, Kohler /Lister, 3-cyl., lean burn, 4-stroke, CI diesel-fueled engine, Model # 1546SR3A22, 24.5 HP engine

5. B45 Outside Emergency Generator, Cummins Onan GenSet, 6-cyl., 150 KW, lean burn, 4-stroke, CI diesel-fueled engine, Model # DVE-15R6, 277 HP

(z) For the purpose of this permit, ID 992 (Miscellaneous Storage Tanks) consists of the following:

1. B24TT-0104, TEDB (tetraethyldiborane) 55-gallon tank (0 psia)
2. B37T-1400, THF (tetrahydrofuran) 2,000-gallon tank (2.088 psia)
3. B37T-1430, Methanol 2,203-gallon tank (1.88 psia)
4. B37T-1460, Recycled Methanol 2,133-gallon tank (1.88 psia)
5. B37T-1110, Diglyme (glycol ether) 3,167-gallon tank (0.03 psia)
6. B37T-1160, Diglyme, Recycled (glycol ether) 3,000-gallon tank (0.03 psia)
7. B99TT-9000, Gasoline 550-gallon tank
8. B99TT-9001, Diesel 10,000-gallon tank
9. B82TT-1507, Heat Transfer Oil 400-gallon tank
10. B86T-1200, Methanol 800-gallon tank
11. B43TT-0398, Heat Transfer Oil 700-gallon tank
12. B43TT-0403, Heat Transfer Oil 300-gallon tank

(aa) The following sources have minor emissions and no applicable emission, testing, monitoring, recordkeeping or reporting requirements:

1. ID 100 (Cooling Towers) consists of the following:
  - a) Building 72 Tower (72TE - 0139 & 0140) (43.2 th gal/hr)
  - b) Building 16 Tower (16TE - 1009) (54 th gal/hr)
  - c) Building 34 Tower (34TE - 0101) (120 th gal/hr)
2. ID 171 - Maintenance shop
3. ID 201 - NaK Tank vent and associated bubblers (B20TK - 3300, TK - 3308, & TK - 3309)
4. ID 202 - NaK Filter Hood and NaK Cylinder Cleaning Hood
5. ID 250 - Diborane Packaging consists of a Diborane feed into a Diborane storage cylinder in a dry ice/methanol bath with gases vented to atmosphere. Diborane does not vent, only the methanol bath vents.
6. ID 431 - Building 43 Hot Oil System
  - a) Holding Tank (43TT - 0398)
  - b) Expansion tank (43TT - 0397)
7. ID 432 Bldg 43 K & Na storage tank
  - a) Tanks (43TT - 0701 & 0703)
8. ID 445 - Building 44 process tanks
  - a) TBA Feed Tanks (44TT - 0801, - 1101)
  - b) THF Recycle Tanks (44TT - 0501, - 0502)
  - c) THF Recycle Tanks (44TT - 0201, - 0202)
9. ID 447 - Building 44 THF Day Tanks (500 gallon) (B44TT - 3420 & 3421)
10. ID 821 - Building 82 Na & K Storage Tanks (82TT - 1601 & 1602)
11. ID 822 - Building 82 Hot Oil System
  - a) Holding Tank (82TT - 1550)
  - b) Expansion tank (82TT - 1507)
12. Other various tank sources exempt

(ab) This Operating Permit No. NM 10-00047 was originally issued on March 5, 2003, effective on March 5, 2003, and expires on February 29, 2008. This permit was administratively amended on November 7, 2003 as the result of the sale of the Callery Chemical Division of MSA at the Evans City location to BASF on September 12, 2003.

(ac) This permit was renewed on April 9, 2013.

(ad) This permit was administratively amended on April 17, 2014 to change the responsible official to Lisa Toole - Site Manager.

(ae) The Department issued a minor operating permit modification for this facility on May 21, 2015 for the replacement of the Pan Dryer which is part of Source 443 and is one of 2 dryers used in the Alcoholates Production Unit for the manufacturing of K-tert



**SECTION H. Miscellaneous.**

Butylate and Na-Tert Butylate powders. The new Pan Dryer (company designated 44D-1501) is a 3V COGEM, model Multidry EV 5000 electric driven and steam heated dryer with steam provided by the main boiler. The RFD estimated the VOC and PM-10 emissions from the new dryer were 7.03 TPY and 2.2 TPY, respectively. There was no emissions increase expected from the new dryer.

(af) The permit was administratively amended on April 20, 2017 to change the ownership and responsible official.

(ag) This permit was renewed on August 13, 2018. This includes a change in responsible official.

(ah) This permit was amended on August 6, 2019 to incorporate the change of responsible official from Mike Gaffney, CFO to Ben Stewart, VP of Operations.

(ai) This permit was amended on September 10, 2020 to incorporate the change of ownership and to update the responsible official title to Director of Operations.



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

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