



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: December 6, 2018

Effective Date: December 6, 2018

Expiration Date: November 30, 2023

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 applicable requirements unless otherwise designated as "State-Only" or "non-applicable" requirements.

TITLE V Permit No: 25-00069

Federal Tax Id - Plant Code: 16-1090809-5

Owner Information

Name: BASF CORPORATION
Mailing Address: 1729 EAST AVE
ERIE, PA 16503-2367

Plant Information

Plant: BASF CORPORATION/ERIE
Location: 25 Erie County 25001 Erie City
SIC Code: 2819 Manufacturing - Industrial Inorganic Chemicals, Nec

Responsible Official

Name: TRAVIS ROLLINS
Title: SITE MANAGER
Phone: (814) 870 - 3035

Permit Contact Person

Name: JOLINE DONNELL
Title: EHS SPECIALIST
Phone: (814) 870 - 3023

[Signature] _____
ERIC A. GUSTAFSON, NORTHWEST REGION AIR PROGRAM MANAGER

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Note: These same sub-sections are repeated for each source!

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SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput		Fuel/Material
CU002	BURNHAM BOILER A, 200 HP	8.369	MMBTU/HR	
		8.369	MCF/HR	Natural Gas
CU004	CLEAVER BROOKS BOILER, 250 HP	10.460	MMBTU/HR	
		10.460	MCF/HR	Natural Gas
CU005	BURNHAM BOILER B, 200 HP	8.369	MMBTU/HR	
		8.369	MCF/HR	Natural Gas
CU006	CBEX BOILER, EAST	14.054	MMBTU/HR	
		14.050	MCF/HR	Natural Gas
CU007	CBEX BOILER, WEST	14.054	MMBTU/HR	
		14.050	MCF/HR	Natural Gas
014	J1 DRYER & CALCINER	1.250	Tons/HR	CATALYST INTERMEDIAT
019A	J3 PACKAGING	0.108	Tons/HR	CATALYST INTERMEDIAT
025E	BUILDING 300 VESSELS, DRYERS, MILL, & PACKAGING	10,000.000	Lbs/HR	CATALYST INTERMEDIAT
027	J3 DRYER	0.175	Tons/HR	CATALYST INTERMEDIAT
032A	A5 CALCINER	190.000	Lbs/HR	CATALYST INTERMEDIAT
033	A2 MIX TANK	225.000	Lbs/HR	ORGANIC ACID
		800.000	Lbs/HR	METAL OXIDE
034	J1 PACKAGING	360.000	Lbs/HR	CATALYST INTERMEDIAT
036	A2 MIX TANK LOADING	1.000	Lbs/HR	CATALYST INTERMEDIAT
037A	R9/R10 WEIGH HOPPER	550.000	Lbs/HR	CATALYST INTERMEDIAT
037A2	R10 LOAD HOPPER	1.000	Lbs/HR	CATALYST INTERMEDIAT
040	B2 DRYER	558.000	Lbs/HR	CATALYST INTERMEDIAT
042	DEWAX OVEN 1 (BUILDING 300)	1.500	MCF/HR	Natural Gas
		100.000	Lbs/HR	CATALYST INTERMEDIAT
043	TABLETING CELLS 5 & 6 (BUILDING 102)	10.000	Lbs/HR	CATALYST INTERMEDIAT
044	TABLETING CELLS 1 & 2 (BUILDING 102)	10.000	Lbs/HR	CATALYST INTERMEDIAT
046	TABLETING CELLS 3 & 4 (BUILDING 102)	10.000	Lbs/HR	CATALYST INTERMEDIAT
047	TABLETING CELLS 7 & 8 (BUILDING 102)	10.000	Lbs/HR	CATALYST INTERMEDIAT
048	METAL DISSOLVING	100.000	Lbs/HR	METAL
		300.000	Lbs/HR	METAL
		300.000	Lbs/HR	CATALYST INTERMEDIAT
049	BUILDING 300 LOAD HOPPER AND FLUID BED	50.000	Lbs/HR	CATALYST INTERMEDIAT
051	TABLETING CELL 9	150.000	Lbs/HR	CATALYST INTERMEDIAT
052	B2 PACKAGING	0.610	Lbs/HR	CATALYST INTERMEDIAT
053	B2 CALCINER	0.400	Tons/HR	CATALYST INTERMEDIAT
054	BLENDER 2 (EAST) (BUILDING 102)	500.000	Lbs/HR	CATALYST INTERMEDIAT
055	BLENDER 1 (MIDDLE) (BUILDING 102)	500.000	Lbs/HR	CATALYST INTERMEDIAT
069A	BLENDER 3 (WEST) (BUILDING 102)	667.000	Lbs/HR	CATALYST INTERMEDIAT
069D	BLDG 350 SCREENER	1.000	Lbs/HR	CATALYST INTERMEDIAT
069E	DEWAX OVEN 2 (BUILDING 300)	100.000	Lbs/HR	CATALYST INTERMEDIAT

SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
		1.500 MCF/HR	Natural Gas
069F	A2 CONE MIXERS	2.000 Tons/HR	CATALYST INTERMEDIAT
069G	A5 CALCINER LOADING & PACKAGING	3.000 Tons/HR	CATALYST INTERMEDIAT
069H	B4 PACKAGING	1.000 Lbs/HR	CATALYST INTERMEDIAT
101	EMERGENCY GENERATOR #1, 100KW NAT GAS (OUTSIDE BOILER HOUSE)	1.000 CF/HR	Natural Gas
102	EMERGENCY GENERATOR #2, 100KW NAT GAS (OUTSIDE BUILDING 300)	1.000 CF/HR	Natural Gas
115	R9 LOAD HOPPER	2,000.000 Lbs/HR	CATALYST INTERMEDIAT
116	R9 VESSEL	2,000.000 Lbs/HR	CATALYST INTERMEDIAT
117	BUILDING A6	1.000 Lbs/HR	CATALYST INTERMEDIAT
118	BUILDING H	1.000 Lbs/HR	CATALYST INTERMEDIAT
119	SHED WAREHOUSE	1.000 Lbs/HR	CATALYST INTERMEDIAT
120	EMERGENCY GENERATOR #3, 70 KW NAT GAS (INSIDE BUILDING 300)	1.000 CF/HR	Natural Gas
200	R3 PACKAGING	70.000 Lbs/HR	CATALYST INTERMEDIAT
201	R6 PACKAGING	35.000 Lbs/HR	CATALYST INTERMEDIAT
		35.000 Lbs/HR	CATALYST INTERMEDIAT
202	R1 LOAD HOPPER	70.000 Lbs/HR	CATALYST INTERMEDIAT
203	B4 MULLER	1.000 Lbs/HR	CATALYST INTERMEDIAT
204	R8 PACKAGING	60.000 Lbs/HR	CATALYST INTERMEDIAT
		60.000 Lbs/HR	CATALYST INTERMEDIAT
205	R5/R6 VESSELS	1.000 Lbs/HR	CATALYST INTERMEDIAT
301	R10 VESSEL	115.000 Lbs/HR	CATALYST INTERMEDIAT
		30.000 Lbs/HR	CATALYST INTERMEDIAT
304	R3 RIBBON BLENDER	70.000 Lbs/HR	CATALYST INTERMEDIAT
305	R1 VESSEL	70.000 Lbs/HR	CATALYST INTERMEDIAT
306	R3 VESSEL	1.000 Lbs/HR	CATALYST INTERMEDIAT
800	PARTS WASHERS (3)	1.000 Gal/HR	STODDARD SOLVENT
999	MISC NATURAL GAS HEATERS	1.000 MCF/HR	Natural Gas
C006A	LOW NOX BURNERS FOR CLEAVER BROOKS BOILER CU006		
C006B	FLUE GAS RECIRCULATION (FGR) FOR CLEAVER BROOKS BOILER CU006		
C007A	LOW NOX BURNERS FOR CLEAVER BROOKS BOILER CU007		
C007B	FLUE GAS RECIRCULATION (FGR) FOR CLEAVER BROOKS BOILER CU007		
C014A	J1 DRYER & CALCINER DUST COLLECTOR		
C025E1	BUILDING 300 HEIL SCRUBBER		
C025E2	BUILDING 300 CROLL REYNOLDS SCRUBBER 1		
C025E3	BUILDING 300 CROLL REYNOLDS SCRUBBER 2		
C027	J3 DRYER DUST COLLECTOR		
C032A2	A5 SCRUBBER		
C033	A2 VENTURI SCRUBBER		

SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
C040	B2 DRYER DUST COLLECTOR		
C042	DEWAX OVEN 1 THERMAL OXIDIZER		
C043	TABLETING CELLS 5 & 6 DUST COLLECTOR		
C044	TABLETING CELLS 1 & 2 DUST COLLECTOR		
C046A	TABLETING CELLS 3 & 4 DUST COLLECTOR		
C047	TABLETING CELLS 7 & 8 DUST COLLECTOR		
C05	TRI-MER SCRUBBER		
C051	TABLETING CELL 9 DUST COLLECTOR		
C053B	B2 CALCINER DUST COLLECTOR		
C069D	BUILDING 350 SCREENER DUST COLLECTOR		
C069E	DEWAX OVEN 2 THERMAL OXIDIZER		
C069F	A2 MIX TANK LOADING & A2 CONE MIXERS UNLOADING DUST COLLECTR		
C069G	A5 CALCINER LOADING & PACKAGING DUST COLLECTOR		
C069H	B4 PACKAGING DUST COLLECTOR		
C117	BUILDING A6 DUST COLLECTOR		
C118	BUILDING H DUST COLLECTOR		
C119	SHED WAREHOUSE DUST COLLECTOR		
C200	R3 PACKAGING DUST COLLECTOR		
C201A	R5/R6 DUST COLLECTOR		
C203	MULLER DUST COLLECTOR		
C204	R8 PACKAGING DUST COLLECTOR		
FML01	NATURAL GAS PIPELINE		
S002	BURNHAM BOILER A 200 HP STACK		
S014	J1 DUST COLLECTOR STACK		
S025E	BUILDING 300 SCRUBBER STACK		
S027	J3 DRYER DUST COLLECTOR STACK		
S032A	A5 SCRUBBER STACK		
S032AE	A5 CALCINER EMERGENCY VENT		
S033	A2 VENTURI SCRUBBER STACK		
S040	B2 DRYER DUST COLLECTOR STACK		
S042A	DEWAX OVEN #1 EMERGENCY BYPASS VENT		
S042B	DEWAX OVEN 1 THERMAL OXIDIZER STACK		
S043	TABLETING CELLS 5 & 6 DUST COLLECTOR STACK		
S044	TABLETING CELLS 1 & 2 DUST COLLECTOR STACK		
S046	TABLETING CELLS 3 & 4 DUST COLLECTOR STACK		
S047	TABLETING CELLS 7 & 8 DUST COLLECTOR STACK		
S049	BUILDING 300 LOAD HOPPER STACK		
S05	TR-MER SCRUBBER STACK		
S051	TABLETING CELL 9 DUST COLLECTOR STACK		
S053	B2 CALCINER DUST COLLECTOR STACK		

SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
S069D	BLDG 350 DUST COLLECTOR STACK		
S069EA	DEWAX OVEN #2 EMERGENCY BYPASS VENT		
S069EB	DEWAX OVEN 2 THERMAL OXIDIZER STACK		
S069F	A2 MIX TANK & CONE MIXER DUST COLLECTOR STACK		
S069G	A5 CALCINER DUST COLLECTOR STACK		
S069H	B4 PACKAGING DUST COLLECTOR STACK		
S101	EMERGENCY GENERATOR 1 STACK		
S102	EMERGENCY GENERATOR 2 STACK		
S117	BUILDING A6 DUST COLLECTOR STACK		
S118	BUILDING H DUST COLLECTOR STACK		
S119	SHED WAREHOUSE DUST COLLECTOR STACK		
S120	EMERGENCY GENERATOR #3 STACK		
S200	R3 PACKAGING DUST COLLECTOR STACK		
S201	R5/R6 DUST COLLECTOR STACK		
S203	MULLER DUST COLLECTOR STACK		
S204	R8 PACKAGING DUST COLLECTOR STACK		
SCU004	CLEAVER BROOKS BOILER STACK		
SCU005	BURHAM BOILER B 200 HP STACK		
SCU006	CBEX EAST BOILER STACK		
SCU007	CBEX WEST BOILER STACK		
Z019A	J3 PACKAGING FUGITIVES		
Z025E	FUGITIVES FROM BUILDING 300 DRYERS, MILL, & PACKAGING		
Z034	J1 PACKAGING FUGITIVES		
Z037A	R9/R10 WEIGH HOPPER FUGITIVES		
Z037A2	R10 LOAD HOPPER FUGITIVES		
Z049	BUILDING 300 FLUID BED FUGITIVES		
Z052	B2 PACKAGING FUGITIVES		
Z054	BLENDER 2 FUGITIVES		
Z055	BLENDER 1 FUGITIVES		
Z069A	BLENDER 3 FUGITIVES		
Z115	R9 LOAD HOPPER FUGITIVES		
Z115A	R9 LOAD HOPPER EMERGENCY RUPTURE DISK		
Z116	R9 VESSEL FUGITIVES		
Z116A	R9 VESSEL EMERGENCY RUPTURE DISK		
Z202	R1 LOAD HOPPER FUGITIVES		
Z301	R10 VESSEL FUGITIVE		
Z304	R3 RIBBON BLENDER FUGITIVES		
Z305	R1 VESSEL STACK		
Z306	R3 VESSEL STACK		
Z800	FUGITIVES FROM PARTS WASHERS		

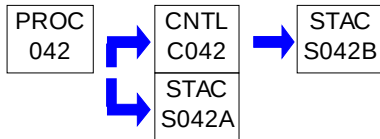
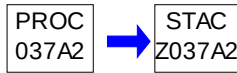
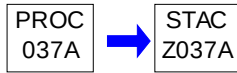
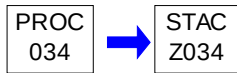
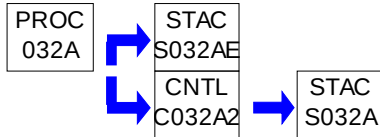
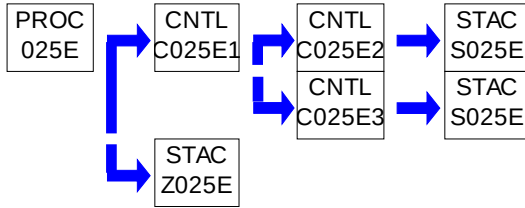
SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
Z999	MISC NG USAGE FUGITIVES		

PERMIT MAPS



PERMIT MAPS



PERMIT MAPS

PROC
047 → CNTL
C047 → STAC
S047

PROC
048 → CNTL
C05 → STAC
S05

PROC
049 → STAC
S049
STAC
Z049

PROC
051 → CNTL
C051 → STAC
S051

PROC
052 → STAC
Z052

PROC
053 → CNTL
C053B → STAC
S053

PROC
054 → STAC
Z054

PROC
055 → STAC
Z055

PROC
069A → STAC
Z069A

PROC
069D → CNTL
C069D → STAC
S069D

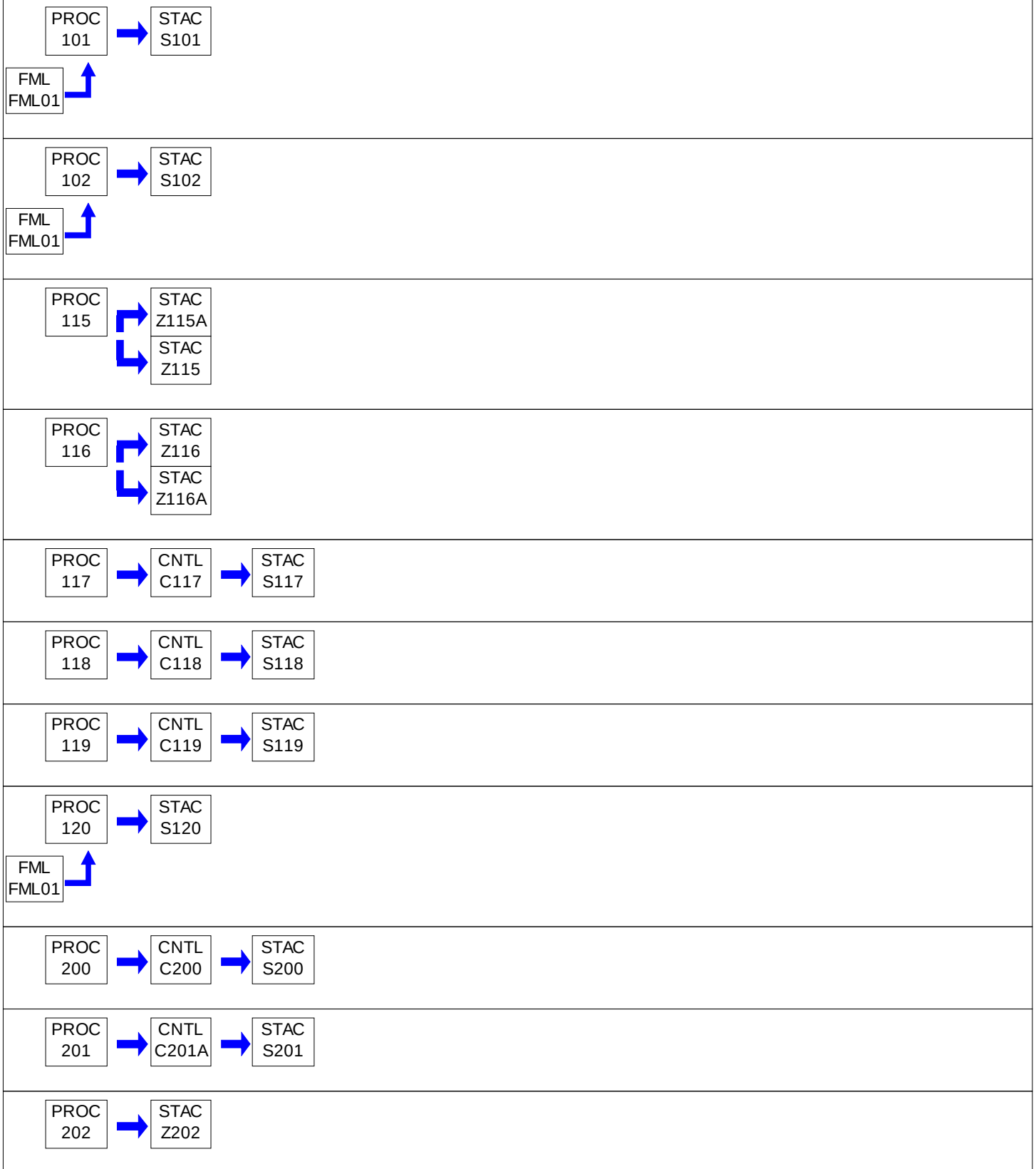
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S069EA
CNTL
C069E → STAC
S069EB

PROC
069F → CNTL
C069F → STAC
S069F

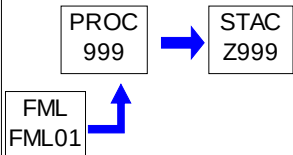
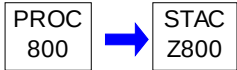
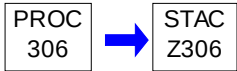
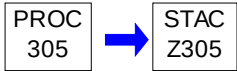
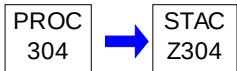
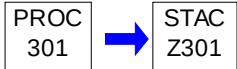
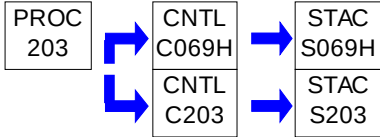
PROC
069G → CNTL
C069G → STAC
S069G

PROC
069H → CNTL
C069H → STAC
S069H

PERMIT MAPS



PERMIT MAPS



SECTION B. General Title V 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 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 121.7]

Prohibition of Air Pollution

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

#003 [25 Pa. Code § 127.512(c)(4)]

Property Rights

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

#004 [25 Pa. Code § 127.446(a) and (c)]

Permit Expiration

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. The terms and conditions of the expired permit shall automatically continue pending issuance of a new Title V 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. 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.

#005 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446(e) & 127.503]

Permit Renewal

(a) An application for the renewal of the Title V permit shall be submitted to the Department at least six (6) months, and not more than 18 months, before the expiration date of this permit. The renewal application is timely if a complete application is submitted to the Department's Regional Air Manager within the timeframe specified in this permit condition.

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

(c) 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. The application for renewal of the Title V permit shall also include submission of compliance review forms which have been used by the permittee to update information submitted in accordance with either 25 Pa. Code § 127.412(b) or § 127.412(j).

(d) 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 during the permit renewal process. The permittee shall also promptly provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

#006 [25 Pa. Code §§ 127.450(a)(4) & 127.464(a)]

Transfer of Ownership or Operational Control

(a) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership or operational control of the source shall be treated as an administrative amendment if:

(1) The Department determines that no other change in the permit is necessary;

(2) 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,

(3) A compliance review form has been submitted to the Department and the permit transfer has been approved by the Department.

SECTION B. General Title V Requirements

(b) In accordance with 25 Pa. Code § 127.464(a), this permit may not be transferred to another person except in cases of transfer-of-ownership which are documented and approved to the satisfaction of the Department.

#007 [25 Pa. Code § 127.513, 35 P.S. § 4008 and § 114 of the CAA]

Inspection and Entry

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

- (1) Enter at reasonable times upon the permittee's premises where a Title V 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 or remove, at reasonable times, records that are kept under the conditions of this permit;
- (3) Inspect at reasonable times, 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, 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.

(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.

#008 [25 Pa. Code §§ 127.25, 127.444, & 127.512(c)(1)]

Compliance Requirements

(a) The permittee shall comply with the conditions of this permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one (1) 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 to the source are 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 Title V permit.

#009 [25 Pa. Code § 127.512(c)(2)]

Need to Halt or Reduce Activity Not a Defense

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

#010 [25 Pa. Code §§ 127.411(d) & 127.512(c)(5)]

Duty to Provide Information

(a) The permittee shall furnish to the Department, within a reasonable time, information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or

SECTION B. General Title V Requirements

to determine compliance with the permit.

(b) Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to keep by this permit, or for information claimed to be confidential, the permittee may furnish such records directly to the Administrator of EPA along with a claim of confidentiality.

#011 [25 Pa. Code §§ 127.463, 127.512(c)(3) & 127.542]

Reopening and Revising the Title V Permit for Cause

(a) This Title V permit may be modified, revoked, reopened and reissued or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay a permit condition.

(b) This permit may be reopened, revised and reissued prior to expiration of the permit under one or more of the following circumstances:

(1) Additional applicable requirements under the Clean Air Act or the Air Pollution Control Act become applicable to a Title V facility with a remaining permit term of three (3) or more years prior to the expiration date of this permit. The Department will revise the permit as expeditiously as practicable but not later than 18 months after promulgation of the applicable standards or regulations. No such revision is required if the effective date of the requirement is later than the expiration date of this permit, unless the original permit or its terms and conditions has been extended.

(2) Additional requirements, including excess emissions requirements, become applicable to an affected source under the acid rain program. Upon approval by the Administrator of EPA, excess emissions offset plans for an affected source shall be incorporated into the permit.

(3) The Department or the EPA determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

(4) The Department or the Administrator of EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

(c) Proceedings to revise this permit shall follow the same procedures which apply to initial permit issuance and shall affect only those parts of this permit for which cause to revise exists. The revision shall be made as expeditiously as practicable.

(d) Regardless of whether a revision is made in accordance with (b)(1) above, the permittee shall meet the applicable standards or regulations promulgated under the Clean Air Act within the time frame required by standards or regulations.

#012 [25 Pa. Code § 127.543]

Reopening a Title V Permit for Cause by EPA

As required by the Clean Air Act and regulations adopted thereunder, this permit may be modified, reopened and reissued, revoked or terminated for cause by EPA in accordance with procedures specified in 25 Pa. Code § 127.543.

#013 [25 Pa. Code § 127.522(a)]

Operating Permit Application Review by the EPA

The applicant may be required by the Department to provide a copy of the permit application, including the compliance plan, directly to the Administrator of the EPA. Copies of title V permit applications to EPA, pursuant to 25 PA Code §127.522(a), shall be submitted, if required, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

#014 [25 Pa. Code § 127.541]

Significant Operating Permit Modifications

When permit modifications during the term of this permit do not qualify as minor permit modifications or administrative amendments, the permittee shall submit an application for significant Title V permit modifications in accordance with

SECTION B. General Title V Requirements

25 Pa. Code § 127.541. Notifications to EPA, pursuant to 25 PA Code §127.522(a), if required, shall be submitted, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

#015 [25 Pa. Code §§ 121.1 & 127.462]

Minor Operating Permit Modifications

The permittee may make minor operating permit modifications (as defined in 25 Pa. Code §121.1), on an expedited basis, in accordance with 25 Pa. Code §127.462 (relating to minor operating permit modifications). Notifications to EPA, pursuant to 25 PA Code §127.462(c), if required, shall be submitted, to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

#016 [25 Pa. Code § 127.450]

Administrative Operating Permit Amendments

(a) The permittee may request administrative operating permit amendments, as defined in 25 Pa. Code §127.450(a). Copies of request for administrative permit amendment to EPA, pursuant to 25 PA Code §127.450(c)(1), if required, shall be submitted to the following EPA e-mail box:

R3_Air_Apps_and_Notices@epa.gov

Please place the following in the subject line: TV [permit number], [Facility Name].

(b) Upon final action by the Department granting a request for an administrative operating permit amendment covered under §127.450(a)(5), the permit shield provisions in 25 Pa. Code § 127.516 (relating to permit shield) shall apply to administrative permit amendments incorporated in this Title V Permit in accordance with §127.450(c), unless precluded by the Clean Air Act or the regulations thereunder.

#017 [25 Pa. Code § 127.512(b)]

Severability Clause

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

#018 [25 Pa. Code §§ 127.704, 127.705 & 127.707]

Fee Payment

(a) The permittee shall pay fees to the Department in accordance with the applicable fee schedules in 25 Pa. Code Chapter 127, Subchapter I (relating to plan approval and operating permit fees).

(b) Emission Fees. The permittee shall, on or before September 1st of each year, pay applicable annual Title V emission fees for emissions occurring in the previous calendar year as specified in 25 Pa. Code § 127.705. The permittee is not required to pay an emission fee for emissions of more than 4,000 tons of each regulated pollutant emitted from the facility.

(c) As used in this permit condition, the term "regulated pollutant" is defined as a VOC, each pollutant regulated under Sections 111 and 112 of the Clean Air Act and each pollutant for which a National Ambient Air Quality Standard has been promulgated, except that carbon monoxide is excluded.

(d) Late Payment. Late payment of emission fees will subject the permittee to the penalties prescribed in 25 Pa. Code § 127.707 and may result in the suspension or termination of the Title V permit. The permittee shall pay a penalty of fifty percent (50%) of the fee amount, plus interest on the fee amount computed in accordance with 26 U.S.C.A. § 6621(a)(2) from the date the emission fee should have been paid in accordance with the time frame specified in 25 Pa. Code § 127.705(c).

SECTION B. General Title V Requirements

(e) The permittee shall pay an annual operating permit administration fee according to the fee schedule established in 25 Pa. Code § 127.704(c) if the facility, identified in Subparagraph (iv) of the definition of the term "Title V facility" in 25 Pa. Code § 121.1, is subject to Title V after the EPA Administrator completes a rulemaking requiring regulation of those sources under Title V of the Clean Air Act.

(f) This permit condition does not apply to a Title V facility which qualifies for exemption from emission fees under 35 P.S. § 4006.3(f).

#019 [25 Pa. Code §§ 127.14(b) & 127.449]

Authorization for De Minimis Emission Increases

(a) This permit authorizes de minimis emission increases from a new or existing source in accordance with 25 Pa. Code §§ 127.14 and 127.449 without the need for a plan approval or prior issuance of a permit modification. The permittee shall provide the Department with seven (7) days prior written notice before commencing any de minimis emissions increase that would result from either: (1) a physical change of minor significance under § 127.14(c)(1); or (2) the construction, installation, modification or reactivation of an air contamination source. 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.

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

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

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

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

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

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

(c) In accordance with § 127.14, the permittee may install the following minor sources without the need for a plan approval:

(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, liquefied petroleum gas 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.

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(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.

(d) 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 (b)(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 the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.

(4) Changes which are modifications under any provision of Title I of the Clean Air Act and emission increases which would exceed the allowable emissions level (expressed as a rate of emissions or in terms of total emissions) under the Title V permit.

(e) Unless precluded by the Clean Air Act or the regulations thereunder, the permit shield described in 25 Pa. Code § 127.516 (relating to permit shield) shall extend to the changes made under 25 Pa. Code § 127.449 (relating to de minimis emission increases).

(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 allowed under this permit, 25 Pa. Code § 127.449, or sources and physical changes meeting the requirements of 25 Pa. Code § 127.14, the permittee is prohibited from making physical 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.

#020 [25 Pa. Code §§ 127.11a & 127.215]

Reactivation of Sources

(a) The permittee may reactivate a source at the facility that has been out of operation or production for at least one year, but less than or equal to five (5) years, if the source is reactivated in accordance with the requirements of 25 Pa. Code §§ 127.11a and 127.215. The reactivated source will not be considered a new source.

(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).

#021 [25 Pa. Code §§ 121.9 & 127.216]

Circumvention

(a) The owner of this Title V facility, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) 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 this permit, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department,

SECTION B. General Title V Requirements

the device or technique may be used for control of malodors.

#022 [25 Pa. Code §§ 127.402(d) & 127.513(1)]

Submissions

(a) 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 on the permit transmittal letter,
or otherwise notified)

(b) Any report or notification for the EPA Administrator or EPA Region III should be addressed to:

Office of Air Enforcement and Compliance Assistance (3AP20)
United States Environmental Protection Agency
Region 3
1650 Arch Street
Philadelphia, PA 19103-2029

(c) An application, form, report or compliance certification submitted pursuant to this permit condition shall contain certification by a responsible official as to truth, accuracy, and completeness as required under 25 Pa. Code § 127.402(d). Unless otherwise required by the Clean Air Act or regulations adopted thereunder, this certification and any other certification required pursuant to this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

#023 [25 Pa. Code §§ 127.441(c) & 127.463(e); Chapter 139; & 114(a)(3), 504(b) of the CAA]

Sampling, Testing and Monitoring Procedures

(a) The permittee shall perform the emissions monitoring and analysis procedures or test methods for applicable requirements of this Title V permit. In addition to the sampling, testing and monitoring procedures specified in this permit, the Permittee shall comply with any additional applicable requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) The sampling, testing and monitoring required under the applicable requirements of this permit, shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139 unless alternative methodology is required by the Clean Air Act (including §§ 114(a)(3) and 504(b)) and regulations adopted thereunder.

#024 [25 Pa. Code §§ 127.511 & Chapter 135]

Recordkeeping Requirements

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

- (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 the 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.

SECTION B. General Title V Requirements

(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. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

#025 [25 Pa. Code §§ 127.411(d), 127.442, 127.463(e) & 127.511(c)]

Reporting Requirements

(a) The permittee shall comply with the reporting requirements for the applicable requirements specified in this Title V permit. In addition to the reporting requirements specified herein, the permittee shall comply with any additional applicable reporting requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) Pursuant to 25 Pa. Code § 127.511(c), the permittee shall submit reports of required monitoring at least every six (6) months unless otherwise specified in this permit. Instances of deviations (as defined in 25 Pa. Code § 121.1) from permit requirements shall be clearly identified in the reports. The reporting of deviations shall include the probable cause of the deviations and corrective actions or preventative measures taken, except that sources with continuous emission monitoring systems shall report according to the protocol established and approved by the Department for the source. The required reports shall be certified by a responsible official.

(c) Every report submitted to the Department under this permit condition shall comply with the submission procedures specified in Section B, Condition #022(c) of this permit.

(d) Any records, reports or information obtained by the Department or referred to in a public hearing shall be made available to the public by the Department except for such records, reports or information for which the permittee has shown cause that the documents should be considered confidential and protected from disclosure to the public under Section 4013.2 of the Air Pollution Control Act and consistent with Sections 112(d) and 114(c) of the Clean Air Act and 25 Pa. Code § 127.411(d). The permittee may not request a claim of confidentiality for any emissions data generated for the Title V facility.

#026 [25 Pa. Code § 127.513]

Compliance Certification

(a) One year after the date of issuance of the Title V permit, and each year thereafter, unless specified elsewhere in the permit, the permittee shall submit to the Department and EPA Region III a certificate of compliance with the terms and conditions in this permit, for the previous year, including the emission limitations, standards or work practices. This certification shall include:

- (1) The identification of each term or condition of the permit that is the basis of the certification.
- (2) The compliance status.
- (3) The methods used for determining the compliance status of the source, currently and over the reporting period.
- (4) Whether compliance was continuous or intermittent.

(b) The compliance certification shall be postmarked or hand-delivered no later than thirty days after each anniversary of the date of issuance of this Title V Operating Permit, or on the submittal date specified elsewhere in the permit, to the Department and EPA in accordance with the submission requirements specified in condition #022 of this section.

#027 [25 Pa. Code § 127.3]

Operational Flexibility

The permittee is authorized to make changes within the Title V facility in accordance with the following provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements of Section 502(b)(10) of the Clean Air Act and Section 6.1(i) of the Air Pollution Control Act:

- (1) Section 127.14 (relating to exemptions)

SECTION B. General Title V Requirements

- (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)
- (6) Section 127.462 (relating to minor operating permit amendments)
- (7) Subchapter H (relating to general plan approvals and operating permits)

#028 [25 Pa. Code §§ 127.441(d), 127.512(i) and 40 CFR Part 68]

Risk Management

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

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

(1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

(d) If the Title V facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:

(1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,

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

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

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

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

SECTION B. General Title V Requirements

(2) The permittee fails to submit a compliance schedule or include a statement in the compliance certification required under Condition #26 of Section B of this Title V permit that the Title V facility is in compliance with the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68, and 25 Pa. Code § 127.512(i).

#029 [25 Pa. Code § 127.512(e)]

Approved Economic Incentives and Emission Trading Programs

No permit revision shall be required under approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this Title V permit.

#030 [25 Pa. Code §§ 127.516, 127.450(d), 127.449(f) & 127.462(g)]

Permit Shield

(a) The permittee's compliance with the conditions of this permit shall be deemed in compliance with applicable requirements (as defined in 25 Pa. Code § 121.1) as of the date of permit issuance if either of the following applies:

(1) The applicable requirements are included and are specifically identified in this permit.

(2) The Department specifically identifies in the permit other requirements that are not applicable to the permitted facility or source.

(b) Nothing in 25 Pa. Code § 127.516 or the Title V permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act, including the authority of the Administrator of the EPA provided thereunder.

(2) The liability of the permittee for a violation of an applicable requirement prior to the time of permit issuance.

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act.

(4) The ability of the EPA to obtain information from the permittee under Section 114 of the Clean Air Act.

(c) Unless precluded by the Clean Air Act or regulations thereunder, final action by the Department incorporating a significant permit modification in this Title V Permit shall be covered by the permit shield at the time that the permit containing the significant modification is issued.

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) [Not applicable]

(8) [Not applicable]

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

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

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

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

(c) [See WORK PRACTICE REQUIREMENTS in this section of permit.]

(d) [Not applicable]

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 25 Pa. Code § 123.1(a)(1) -- (9) (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

003 [25 Pa. Code §123.31]

Limitations

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

SECTION C. Site Level Requirements

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 (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) (relating to prohibition of certain fugitive emissions).
- (4) [Not applicable]

II. TESTING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

III. MONITORING 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.

IV. RECORDKEEPING REQUIREMENTS.

008 [25 Pa. Code §135.5]

Recordkeeping

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

V. REPORTING REQUIREMENTS.

009 [25 Pa. Code §127.11a]

Reactivation of sources.

SECTION C. Site Level Requirements

(a) Except as provided by § 127.215 (relating to reactivation), a source which has been out of operation or production for at least 1 year but less than or equal to 5 years may be reactivated and will not be considered a new source if the following conditions are satisfied:

(1) The owner or operator shall, within 1 year of the deactivation submit to the Department and implement a maintenance plan which includes the measures to be taken, including maintenance, upkeep, repair or rehabilitation procedures, which will enable the source to be reactivated in accordance with the terms of the permit issued to the source.

(2) The owner or operator shall submit a reactivation plan to the Department for approval at least 60 days prior to the proposed date of reactivation. The reactivation plan shall include sufficient measures to ensure that the source will be reactivated in compliance with the permit requirements. The permittee may submit a reactivation plan to the Department at anytime during the term of its operating permit. The reactivation plan may also be submitted to and reviewed by the Department as part of the plan approval or permit application or renewal process.

(3) The owner or operator of the source shall submit a notice to the Department within 1 year of deactivation requesting preservation of emissions in the inventory and indicating the intent to reactivate the source.

(4) The owner or operator of the source shall comply with the terms and conditions of the maintenance plan while the source is deactivated, and shall comply with the terms of the reactivation plan and operating permit upon reactivation.

(5) The owner or operator of the source with an approved reactivation plan and operating permit shall notify the Department in writing at least 30 days prior to reactivation of the source.

(b) A source which has been out of operation or production for more than 5 years but less than 10 years may be reactivated and will not be considered a new source if the following conditions are satisfied:

(1) The owner or operator of the source complies with the requirements of subsection (a).

(2) The owner or operator of the source obtains a plan approval and operating permit which requires that the emission of air contaminants from the source will be controlled to the maximum extent, consistent with the best available technology as determined by the Department as of the date of reactivation.

(c) A source which has been out of operation for 10 or more years shall meet the requirements of this chapter applicable to a new source.

(d) Other provisions of this section to the contrary notwithstanding, a source that is out of production or operation on November 26, 1994, shall have 1 year to demonstrate compliance with the requirements of subsection (a)(1), (3) and (4).

(e) [Not applicable to this facility.]

(f) The source shall have an operating permit prior to reactivation.

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Definitions from 25 Pa. Code §121.1:

Source – An air contamination source.

Facility - An air contamination source or a combination of air contamination sources located on one or more contiguous or adjacent properties and which is owned or operated by the same person under common control.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The 6-month deviation report, required under Section B Condition #025, shall be submitted to the Department within 30-days of the end of the reporting period. The 6-month deviation report shall cover the following periods unless otherwise approved by the Department:

SECTION C. Site Level Requirements

- (1) January 1 through June 30
- (2) July 1 through December 31

(b) In accordance with 25 Pa. Code § 127.513 and with Section B Condition #026 of this permit, the annual compliance certification report shall be submitted to both the Department and EPA within 30 days of the end of the reporting period. The annual compliance certification shall cover the following period unless otherwise approved by the Department.

- January 1 through December 31.

(c) All reports, submittals, notifications, and other communications required by this permit shall be submitted to the following office.

Bureau of Air Quality
Department of Environmental Protection
230 Chestnut Street
Meadville, PA 16335

814-332-6940 (Air Quality Phone)
814-332-6121 (fax)
Office Hours 8 a.m. - 4 p.m.
General Phone: 814-332-6945 (business hours)
1-800-373-3398 (after hours)

(d) The addresses for EPA submittals are as follows.

- (1) The mailing address is:
EPA Region III Associate Director
Office of Enforcement & Compliance Assistance
Mail Code 3AP20
1650 Arch Street
Philadelphia, PA 19103-2029

- (2) Electronic compliance certifications may be sent to the EPA at the following email address.
R3_APD_Permits@epa.gov

Include the following in the email subject line:

- name of facility, state, and Title V operating permit number.

011 [25 Pa. Code §135.21]

Emission statements

(a) [Not applicable.]

(b) The owner or operator of each stationary source emitting oxides of nitrogen or VOCs shall provide the Department with a statement, in a form as the Department may prescribe, for classes or categories of sources, showing the actual emissions of oxides of nitrogen and VOCs from that source for each reporting period, a description of the method used to calculate the emissions and the time period over which the calculation is based. The statement shall contain a certification by a company officer or the plant manager that the information contained in the statement is accurate.

(c) Annual emission statements are due by March 1 for the preceding calendar year beginning with March 1, 1993, for calendar year 1992 and shall provide data consistent with requirements and guidance developed by the EPA. The guidance document is available from: United States Environmental Protection Agency, 401 M Street, S.W., Washington, D.C. 20460. The Department may require more frequent submittals if the Department determines that one or more of the following applies:

- (1) A more frequent submission is required by the EPA.
- (2) Analysis of the data on a more frequent basis is necessary to implement the requirements of the act.

SECTION C. Site Level Requirements

(d) Subsection (a) does not apply to a class or category of stationary sources which emits less than 25 tons per year of VOCs or oxides of nitrogen, if the Department in its submissions to the Administrator of the EPA under section 182(a)(1) or (3)(B)(ii) of the Clean Air Act (42 U.S.C.A. § 7511a(a)(1) or (3)(B)(ii)) provides an inventory of emissions from the class or category of sources based on the use of the emission factors established by the Administrator or other methods acceptable to the Administrator. The Department will publish in the Pennsylvania Bulletin a notice of the lists of classes or categories of sources which are exempt from the emission statement requirement under this subsection.

012 [25 Pa. Code §135.3]

Reporting

(a) A person who owns or operates a source to which this chapter applies, and who has previously been advised by the Department to submit a source report, shall submit by March 1 of each year a source report for the preceding calendar year. The report shall include information for all previously reported sources, new sources which were first operated during the proceeding calendar year and sources modified during the same period which were not previously reported.

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

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

013 [25 Pa. Code §135.4]

Report format

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

VI. WORK PRACTICE REQUIREMENTS.

014 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

(a) - (b) See RESTRICTIONS in this section of permit.

(c) A person responsible for any source specified in 25 Pa. Code § (a)(1) -- (7) or (9) [Condition 002 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.

(d) See RESTRICTIONS in this section of permit.

015 [25 Pa. Code §129.14]

Open burning operations

(a) Air basins. No person may permit the open burning of material in an air basin.

(b) [Paragraph (b) of the regulation is not applicable to this site.]

(c) Exceptions: The requirements of subsections (a) and (b) do not apply where the open burning operations result from:

SECTION C. Site Level Requirements

- (1) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
- (2) A fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (3) A fire set for the prevention and control of disease or pests, when approved by the Department.
- (4) [Not applicable]
- (5) [Not applicable]
- (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) [Not applicable]

(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 the Solid Waste Management Act.]

VII. ADDITIONAL REQUIREMENTS.

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

VIII. COMPLIANCE CERTIFICATION.

The permittee shall submit within thirty days of 12/31/2018 a certificate of compliance with all permit terms and conditions set forth in this Title V permit as required under condition #026 of section B of this permit, and annually thereafter.

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

***** Permit Shield In Effect *****

**SECTION D. Source Level Requirements**

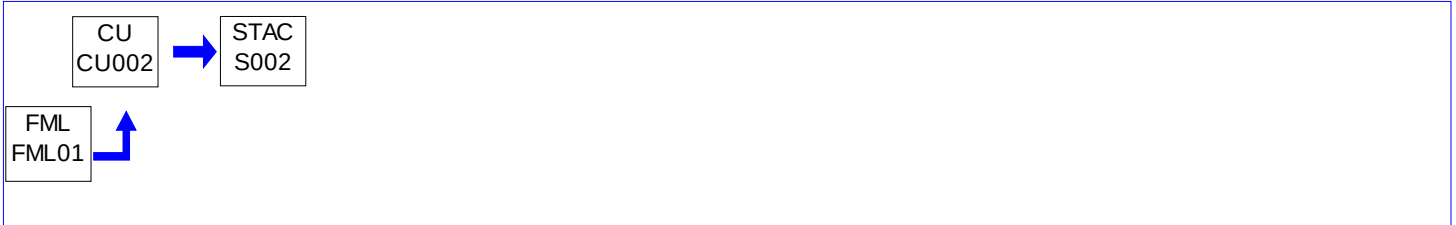
Source ID: CU002

Source Name: BURNHAM BOILER A, 200 HP

Source Capacity/Throughput: 8.369 MMBTU/HR

8.369 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 01 - EXISTING BOILERS

**I. RESTRICTIONS.**

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: CU004

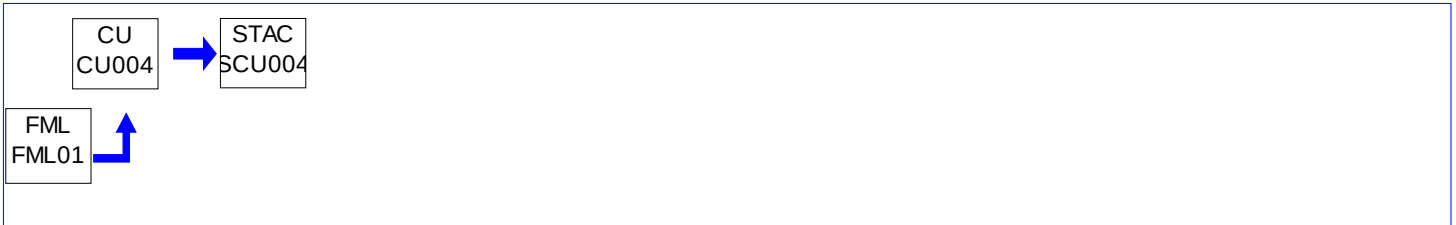
Source Name: CLEAVER BROOKS BOILER, 250 HP

Source Capacity/Throughput: 10.460 MMBTU/HR

10.460 MCF/HR

Natural Gas

Conditions for this source occur in the following groups: 01 - EXISTING BOILERS

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.**# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

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).

[From Condition #7 of GP-1-25-069]

III. MONITORING REQUIREMENTS.

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

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

All records required under 40 CFR Part 60 Subpart Dc shall be maintained by the owner or operator of the affected facility for a period of 5 years following the date of such record.

[This operating permit condition assures compliance with 40 CFR §60.48c(i).]

003 [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) [This is a one-time requirement for notification of startup which no longer applicable because it was already completed during the plan approval process.]

(b) - (f) [Not applicable.]

(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 SO₂ standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record

SECTION D. Source Level Requirements

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 SO₂ 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) [Not applicable.]

(i) [Paragraph (i) of the regulation is streamlined out of the permit in favor of a 25 Pa. Code § 127.441 condition requiring records to be maintained for 5 years.]

(j) [Not applicable.]

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

[Compliance with the requirements of this permit condition assures compliance with Condition #16(c) of General Permit # GP-25-069 (GP-1).]

V. REPORTING REQUIREMENTS.

004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

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:

EPA Region III Associate Director
Office of Enforcement & Compliance Assistance
Mail Code 3AP20
1650 Arch Street
Philadelphia, PA 19103-2029.

[From Condition #16(e) of GP-1-25-069]

The address for the Northwest Regional Office of the Department is:

Bureau of Air Quality
Department of Environmental Protection
230 Chestnut Street
Meadville, PA 16335

005 [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).

[From Condition #6 of GP-1-25-069]

SECTION D. Source Level Requirements**VI. WORK PRACTICE REQUIREMENTS.****# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

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

[From Condition #16(a) of GP-1-25-069]

007 [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 combustion unit authorized to operate under this operating permit.

[From Condition #7 of GP-1-25-069]

008 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

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 operating permit.

[From Condition #4 of GP-1-25-069]

VII. ADDITIONAL REQUIREMENTS.

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

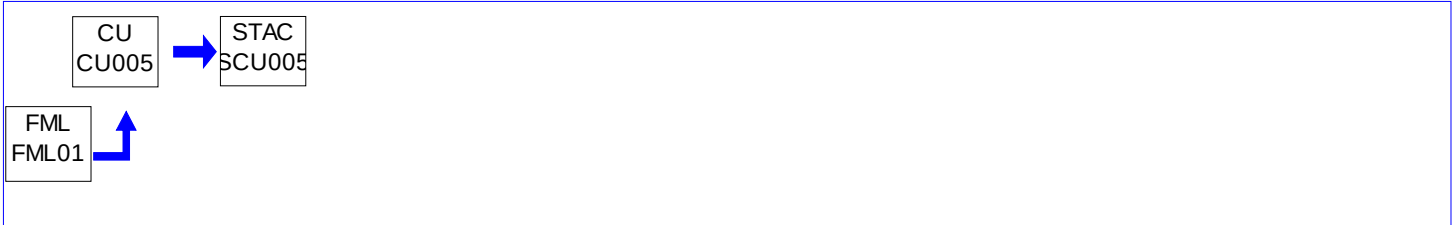
Source ID: CU005

Source Name: BURNHAM BOILER B, 200 HP

Source Capacity/Throughput: 8.369 MMBTU/HR

8.369 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 01 - EXISTING BOILERS

**I. RESTRICTIONS.**

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

***** Permit Shield in Effect. *****

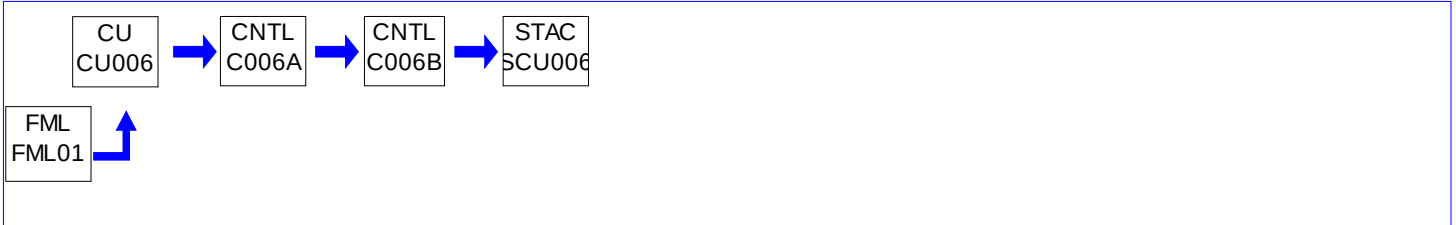
SECTION D. Source Level Requirements

Source ID: CU006

Source Name: CBEX BOILER, EAST

Source Capacity/Throughput: 14.054 MMBTU/HR
14.050 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 02 - NEW BOILERS - CBEX ELITES



I. RESTRICTIONS.

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

*** Permit Shield in Effect. ***

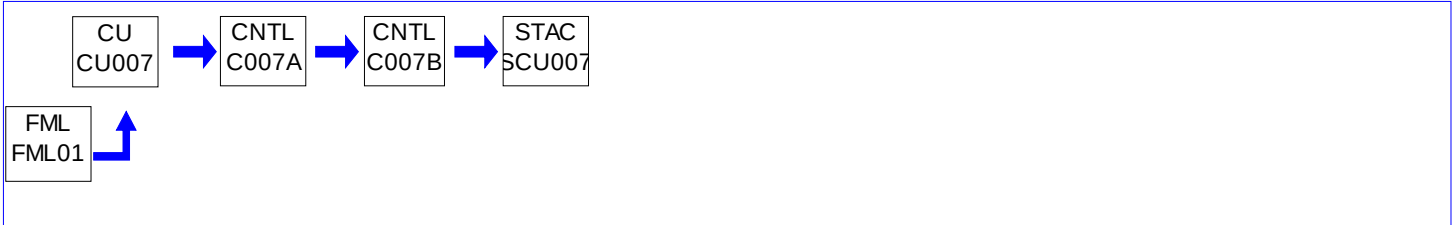
SECTION D. Source Level Requirements

Source ID: CU007

Source Name: CBEX BOILER, WEST

Source Capacity/Throughput: 14.054 MMBTU/HR
14.050 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 02 - NEW BOILERS - CBEX ELITES



I. RESTRICTIONS.

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

*** Permit Shield in Effect. ***

SECTION D. Source Level Requirements

Source ID: 014

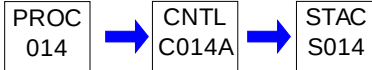
Source Name: J1 DRYER & CALCINER

Source Capacity/Throughput:

1.250 Tons/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 VVVVV

**I. RESTRICTIONS.**

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 019A

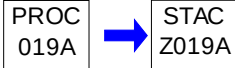
Source Name: J3 PACKAGING

Source Capacity/Throughput:

0.108 Tons/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 VVVVV



I. RESTRICTIONS.

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 025E

Source Name: BUILDING 300 VESSELS, DRYERS, MILL, & PACKAGING

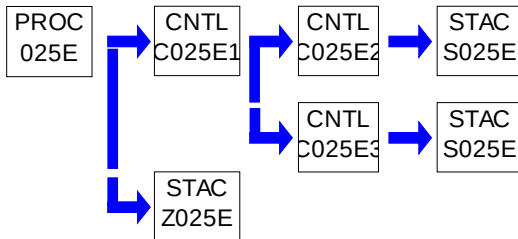
Source Capacity/Throughput: 10,000.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 06 - LIMITED PRODUCTION ACTIVITIES

07 - TRIAL BATCH

08 - PART 63 VVVVV

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

No person may permit the emission into the outdoor atmosphere of particulate matter from any process in a manner that the concentration of particulate matter in the effluent gas exceeds .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 (Title V 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 install, calibrate, maintain, and operate, in a satisfactory manner, a device to monitor the liquid flow rate of the wet scrubbers on a continuous basis, while source 025E is in operation.

[Monitoring of data "on a continuous basis" is defined as an instantaneous data point measured at least once every 15 minutes for at least 90 percent of the operating time during an operating calendar day. The permittee is not required to monitor operational parameter data during periods of non-operation of the device resulting in cessation of the emissions to which the monitoring applies.]

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

(a) The permittee shall maintain a record of all preventative maintenance inspections of the control device. These records shall, at a minimum, contain the following.

- (1) the dates of the inspections;
- (2) the identity of the person performing the inspection;
- (3) any problems or defects;
- (4) the actions taken to correct the problem or defects; and
- (5) any routine maintenance performed.

(b) Records shall be maintained on site for a minimum of 5 years and shall be made available to the Department upon

SECTION D. Source Level Requirements

request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V 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) A water flow rate of 100 gallons per minute to the 1400 cfm packed scrubber (manufactured by Heil Manufacturing, Model No. 734) shall be maintained.
- (b) A water flow rate of 10 gallons per minute to the 400 cfm packed scrubber (manufactured by Croll-Reynolds, Model No. 18T-14H) shall be maintained.
- (c) A water flow rate of 45 gallons per minute to the 1000 cfm packed scrubber (manufactured by Croll-Reynolds, Model No. 30T-20H) shall be maintained.

[From Condition #8 of Plan Approval # 25-313-025E]

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall perform monthly maintenance inspections of each of the three scrubbers.
- (b) The permittee shall permanently install and maintain a rotameter or similar device at a conveniently readable location to indicate the water flow rate to each of the three scrubbers.
- (c) The permittee shall operate the control devices at all times that this source is in operation.
- (d) The permittee shall maintain and operate this source and the control devices in accordance with the manufacturer's specifications.

[Compliance with the requirements in this streamlined permit condition assures compliance with the provisions found in the applicable requirements of Conditions #'s 5, 6, & 7 of Plan Approval # 25-313-025E as modified with the September 4, 2018, RFD approval.]

VII. ADDITIONAL REQUIREMENTS.

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 027

Source Name: J3 DRYER

Source Capacity/Throughput:

0.175 Tons/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 WWWV

**I. RESTRICTIONS.**

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 032A

Source Name: A5 CALCINER

Source Capacity/Throughput:

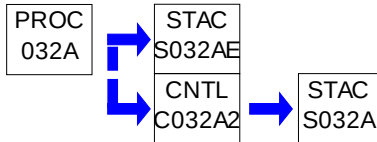
190.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 06 - LIMITED PRODUCTION ACTIVITIES

07 - TRIAL BATCH

08 - PART 63 VVVVV

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

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

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

The maximum lead acetate from lead catalyst process shall not exceed 0.004 lb/hr (32 lbs/yr).

[From Condition #6 of Plan Approval # 25-313-032A]

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

[Stack testing on this source was conducted March 25 - 31, 2010, in accordance with the condition of the March 16, 2010 approval of the Feb. 11, 2010, RFD. The 3/16/2010 RFD approval included a requirement for repeat stack testing every 5 years. The initial stack test report was received by the Department on Nov. 8, 2010. On November 16, 2011, the Department notified BASF by letter that no further repeat stack testing would be required as a condition of the March 16, 2010, RFD approval.]

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

The permittee shall document the recommended pressure drop across the control device according to the equipment manufacturer and maintain the pressure drop across the scrubber within that range at all times that the process is operated in metal HAP service.

[According to a November 19, 2018, email submitted by the permittee, the manufacturer of the Heil Process Equipment model 733 (C032A2) recommends a minimum pressure drop across the scrubber of 1.0 inch of water column.]

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

(a) The permittee shall maintain a maintenance log for any control device(s) associated with this source. This record shall indicate at a minimum:

- (1) the date of each preventative maintenance inspection;

SECTION D. Source Level Requirements

- (2) the identity of the person performing the inspection;
- (3) any problems or defects;
- (4) the actions taken to correct the problem(s) or defect(s); and
- (5) any routine maintenance performed.

(b) Records shall be maintained on site for a minimum of 5 years and shall be made available to the Department upon request.

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

(a) The permittee shall record the following parameters at least once per week while the process is running.

- (1) the pressure drop across the control device; and
- (2) the water flow rate to the control device.

(b) Records shall be maintained on site for a minimum of 5 years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.**# 007 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The company shall install and maintain, at a convenient location, a magnehelic gauge or similar device to measure pressure drop across the scrubber.

[From Condition #7 of Plan Approval # 25-313-032A]

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

The permittee shall permanently install and maintain a rotameter or equivalent at a conveniently readable location to indicate the water flow rate to the scrubber.

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

- (a) The permittee shall perform monthly maintenance inspections of the control devices.
- (b) The permittee shall operate the control device at all times that this source is in operation.
- (c) The permittee shall maintain and operate this source and the control devices in accordance with the manufacturers' specifications and recommended maintenance schedules and in accordance with good air pollution control practices.

[Paragraph (c) is from RFD approval dated March 25, 2010, for in-kind replacement of wet scrubber with new scrubber C032A.]

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

In accordance with the September 8, 2017, approval of RFD 5850, the permittee shall comply with Conditions 1-3 and 6 of the Source Group 'Limited Production Activities' for the production of the E315 catalyst.

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 033

Source Name: A2 MIX TANK

Source Capacity/Throughput:	225.000 Lbs/HR	ORGANIC ACID
	800.000 Lbs/HR	METAL OXIDE

Conditions for this source occur in the following groups: 06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 VVVVV



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The company shall document the recommended pressure drop across the control device according to the equipment manufacturer and maintain pressure drop across the scrubber within that range at all times that the process is operated in metal HAP service.

[According to a November 30, 2018, email from the permittee, the manufacturer of the Heil Process Equipment model 6 (C033) recommends a minimum pressure drop across the scrubber of 10.0 inch of water column.]

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall record the following parameter at least once per week while the process is running:

- the pressure drop across the control device.

(b) Records shall be maintained on site for a minimum of 5 years and shall be made available to the Department upon request.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain a record of all preventative maintenance inspections of the control device. These records shall, at a minimum, contain the following.

- (1) the dates of the inspections;
- (2) the identity of the person performing the inspection;
- (3) any problems or defects;
- (4) the actions taken to correct the problem or defects; and
- (5) any routine maintenance performed.

SECTION D. Source Level Requirements

(b) Records shall be maintained on site for a minimum of 5 years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall perform monthly maintenance inspections of the control devices.
- (b) The permittee shall operate the control devices at all times that this source is in operation.
- (c) The permittee shall maintain and operate this source and the control devices in accordance with the manufacturers' specifications and recommended maintenance schedules and in accordance with good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The construction of this source, the A2 mix tank, was authorized by the May 11, 1988, issuance of plan approval 25-313-033.

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 034

Source Name: J1 PACKAGING

Source Capacity/Throughput:

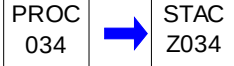
360.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 06 - LIMITED PRODUCTION ACTIVITIES

07 - TRIAL BATCH

08 - PART 63 VVVVV



I. RESTRICTIONS.

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

VI. WORK PRACTICE REQUIREMENTS.

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The stack design for pneumatic conveyor shall not obstruct the proper dispersion of air toxic substances (i.e. no rain cap, elbows, etc.).

[From Condition #4 of Plan Approval # 25-313-034]

VII. ADDITIONAL REQUIREMENTS.

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

*** Permit Shield in Effect. ***

**SECTION D. Source Level Requirements**

Source ID: 036

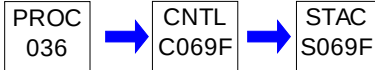
Source Name: A2 MIX TANK LOADING

Source Capacity/Throughput:

1.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 VVVVV

**I. RESTRICTIONS.**

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 037A

Source Name: R9/R10 WEIGH HOPPER

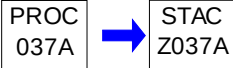
Source Capacity/Throughput: 550.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 06 - LIMITED PRODUCTION ACTIVITIES

07 - TRIAL BATCH

08 - PART 63 VVVVV

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

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The maximum allowable emissions of particulate matter shall be less than 0.03 lbs/hr or 38.4 lbs/yr for the R10 Pneumatic Conveyor.

[from Plan Approval # 25-313-037A, Condition # 5.]

II. TESTING REQUIREMENTS.

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 037A2

Source Name: R10 LOAD HOPPER

Source Capacity/Throughput:

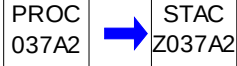
1.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 06 - LIMITED PRODUCTION ACTIVITIES

07 - TRIAL BATCH

08 - PART 63 VVVVV



I. RESTRICTIONS.

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

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 040

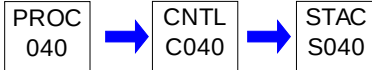
Source Name: B2 DRYER

Source Capacity/Throughput:

558.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 WWWV

**I. RESTRICTIONS.**

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 042

Source Name: DEWAX OVEN 1 (BUILDING 300)

Source Capacity/Throughput:

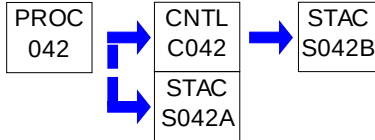
1.500 MCF/HR

Natural Gas

100.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 03 - DEWAX OVENS & THERMAL OXIDIZERS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH

**I. RESTRICTIONS.**

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 043

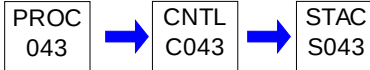
Source Name: TABLETING CELLS 5 & 6 (BUILDING 102)

Source Capacity/Throughput:

10.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 VVVVV



I. RESTRICTIONS.

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

*** Permit Shield in Effect. ***

**SECTION D. Source Level Requirements**

Source ID: 044

Source Name: TABLETING CELLS 1 & 2 (BUILDING 102)

Source Capacity/Throughput:

10.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 VVVVV

**I. RESTRICTIONS.**

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

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 046

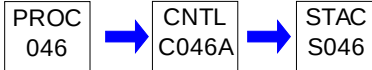
Source Name: TABLETING CELLS 3 & 4 (BUILDING 102)

Source Capacity/Throughput:

10.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 VVVVV

**I. RESTRICTIONS.**

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

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 047

Source Name: TABLETING CELLS 7 & 8 (BUILDING 102)

Source Capacity/Throughput:

10.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 WWWV

**I. RESTRICTIONS.**

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

***** Permit Shield in Effect. *****

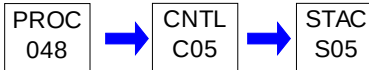
SECTION D. Source Level Requirements

Source ID: 048

Source Name: METAL DISSOLVING

Source Capacity/Throughput:	100.000 Lbs/HR	METAL
	300.000 Lbs/HR	METAL
	300.000 Lbs/HR	CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 06 - LIMITED PRODUCTION ACTIVITIES
 07 - TRIAL BATCH
 08 - PART 63 WWWV

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The nitrogen oxide (NOx) emissions from the scrubber shall not exceed 17.6 lbs/hr and 77 tons/yr.

[From Plan Approval 25-313-048, condition #7.)

II. TESTING REQUIREMENTS.

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

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

(a) The company shall install and maintain, at a convenient location, a magnehelic gauge or similar device to measure pressure drop across the scrubber.

(b) The company shall install and maintain a water flow monitor and PH monitor at convenient locations to measure the water flow rate and PH from the scrubber. PH level and water flow rate from the scrubber shall be maintained at or above 10 and 200 gpm, respectively.

[from Plan Approval # 25-313-048, conditions # 2 and #3.)

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

The permittee shall maintain a record of the water flow rate to the scrubber.

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

(a) The permittee shall maintain a record of all preventative maintenance inspections of the control device. These records shall, at a minimum, contain the following.

- (1) the dates of the inspections;
- (2) the identity of the person performing the inspection;
- (3) any problems or defects;
- (4) the actions taken to correct the problem or defects; and
- (5) any routine maintenance performed.

SECTION D. Source Level Requirements

(b) Records shall be maintained on site for a minimum of 5 years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall perform monthly maintenance inspections of the control device (C05).
- (b) The permittee shall permanently install and maintain a magnehelic gauge or similar device at a conveniently readable location to measure the pressure drop across the scrubber.
- (c) The permittee shall permanently install and maintain a rotameter or similar device at a conveniently readable location to indicate the water flow rate to the scrubber.
- (d) The permittee shall operate the control device at all times that this source is in operation.
- (e) The permittee shall maintain and operate this source and the control device in accordance with the manufacturer's specifications.

VII. ADDITIONAL REQUIREMENTS.

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 049

Source Name: BUILDING 300 LOAD HOPPER AND FLUID BED

Source Capacity/Throughput:

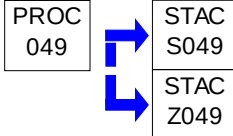
50.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 06 - LIMITED PRODUCTION ACTIVITIES

07 - TRIAL BATCH

08 - PART 63 VVVVV

**I. RESTRICTIONS.**

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

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 051

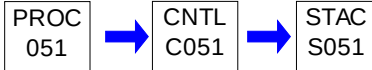
Source Name: TABLETING CELL 9

Source Capacity/Throughput:

150.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 VVVVV

**I. RESTRICTIONS.**

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 052

Source Name: B2 PACKAGING

Source Capacity/Throughput:

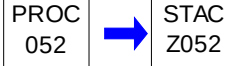
0.610 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 06 - LIMITED PRODUCTION ACTIVITIES

07 - TRIAL BATCH

08 - PART 63 VVVVV



I. RESTRICTIONS.

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 053

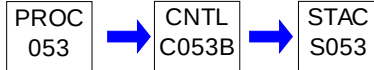
Source Name: B2 CALCINER

Source Capacity/Throughput:

0.400 Tons/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 WWWV



I. RESTRICTIONS.

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

*** Permit Shield in Effect. ***

SECTION D. Source Level Requirements

Source ID: 054

Source Name: BLENDER 2 (EAST) (BUILDING 102)

Source Capacity/Throughput:

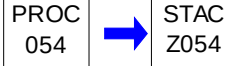
500.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 06 - LIMITED PRODUCTION ACTIVITIES

07 - TRIAL BATCH

08 - PART 63 VVVVV



I. RESTRICTIONS.

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 055

Source Name: BLENDER 1 (MIDDLE) (BUILDING 102)

Source Capacity/Throughput:

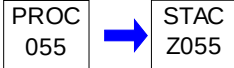
500.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 06 - LIMITED PRODUCTION ACTIVITIES

07 - TRIAL BATCH

08 - PART 63 VVVVV



I. RESTRICTIONS.

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 069A

Source Name: BLENDER 3 (WEST) (BUILDING 102)

Source Capacity/Throughput:

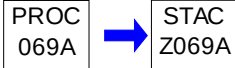
667.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 06 - LIMITED PRODUCTION ACTIVITIES

07 - TRIAL BATCH

08 - PART 63 VVVVV



I. RESTRICTIONS.

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 069D

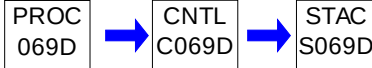
Source Name: BLDG 350 SCREENER

Source Capacity/Throughput:

1.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH



I. RESTRICTIONS.

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 069E

Source Name: DEWAX OVEN 2 (BUILDING 300)

Source Capacity/Throughput:

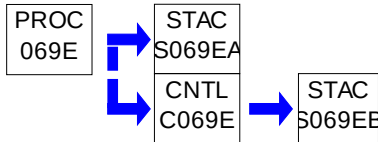
100.000 Lbs/HR

CATALYST INTERMEDIATES

1.500 MCF/HR

Natural Gas

Conditions for this source occur in the following groups: 03 - DEWAX OVENS & THERMAL OXIDIZERS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH

**I. RESTRICTIONS.**

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 069F

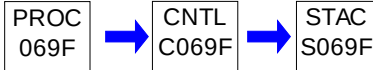
Source Name: A2 CONE MIXERS

Source Capacity/Throughput:

2.000 Tons/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 VVVVV



I. RESTRICTIONS.

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

*** Permit Shield in Effect. ***

SECTION D. Source Level Requirements

Source ID: 069G

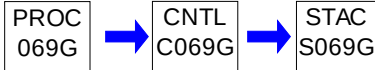
Source Name: A5 CALCINER LOADING & PACKAGING

Source Capacity/Throughput:

3.000 Tons/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 VVVVV



I. RESTRICTIONS.

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

*** Permit Shield in Effect. ***

**SECTION D. Source Level Requirements**

Source ID: 069H

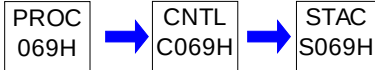
Source Name: B4 PACKAGING

Source Capacity/Throughput:

1.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 WWWV

**I. RESTRICTIONS.**

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 101

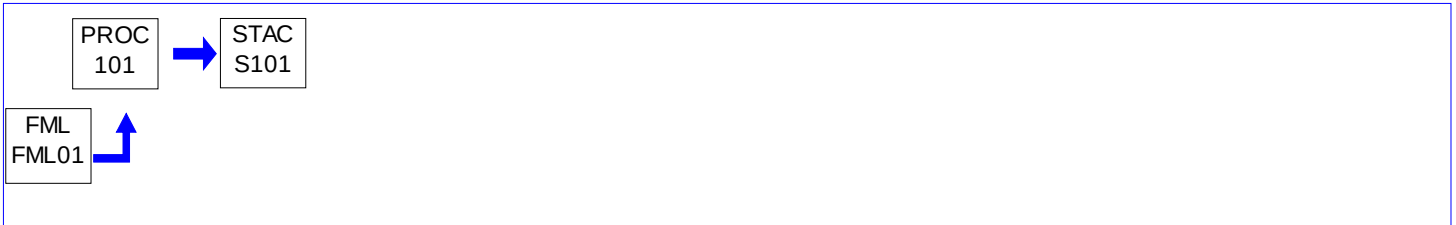
Source Name: EMERGENCY GENERATOR #1, 100KW NAT GAS (OUTSIDE BOILER HOUSE)

Source Capacity/Throughput:

1.000 CF/HR

Natural Gas

Conditions for this source occur in the following groups: 09 - EMERGENCY ENGINES

**I. RESTRICTIONS.**

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 102

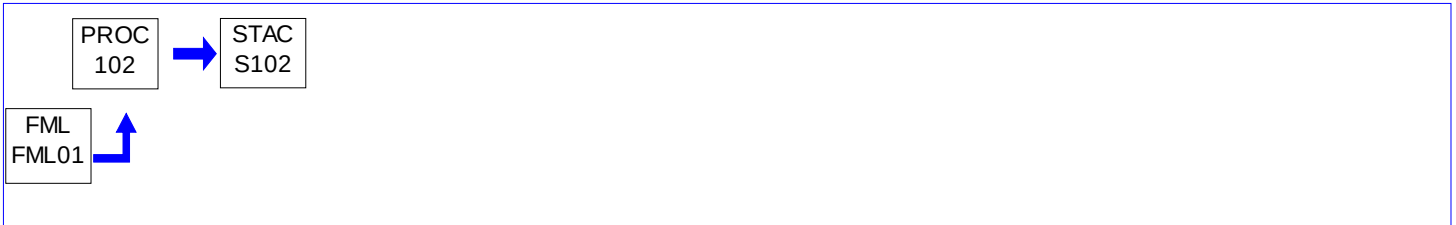
Source Name: EMERGENCY GENERATOR #2, 100KW NAT GAS (OUTSIDE BUILDING 300)

Source Capacity/Throughput:

1.000 CF/HR

Natural Gas

Conditions for this source occur in the following groups: 09 - EMERGENCY ENGINES

**I. RESTRICTIONS.**

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

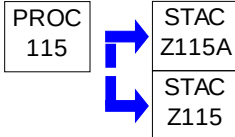
Source ID: 115

Source Name: R9 LOAD HOPPER

Source Capacity/Throughput: 2,000.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 04 - R9 LOAD HOPPER & VESSEL
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 VVVVV



I. RESTRICTIONS.

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

*** Permit Shield in Effect. ***

SECTION D. Source Level Requirements

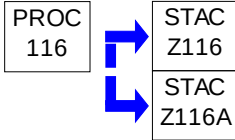
Source ID: 116

Source Name: R9 VESSEL

Source Capacity/Throughput: 2,000.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 04 - R9 LOAD HOPPER & VESSEL
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 VVVVV



I. RESTRICTIONS.

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

*** Permit Shield in Effect. ***

SECTION D. Source Level Requirements

Source ID: 117

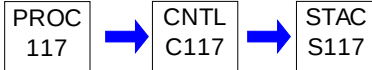
Source Name: BUILDING A6

Source Capacity/Throughput:

1.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 VVVVV

**I. RESTRICTIONS.**

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 118

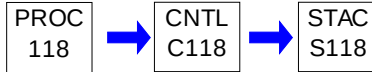
Source Name: BUILDING H

Source Capacity/Throughput:

1.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH



I. RESTRICTIONS.

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

*** Permit Shield in Effect. ***

SECTION D. Source Level Requirements

Source ID: 119

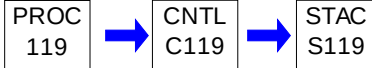
Source Name: SHED WAREHOUSE

Source Capacity/Throughput:

1.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH



I. RESTRICTIONS.

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

*** Permit Shield in Effect. ***

SECTION D. Source Level Requirements

Source ID: 120

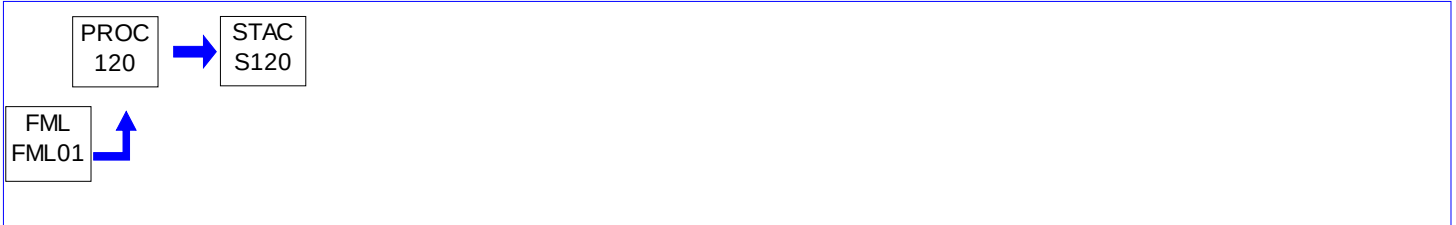
Source Name: EMERGENCY GENERATOR #3, 70 KW NAT GAS (INSIDE BUILDING 300)

Source Capacity/Throughput:

1.000 CF/HR

Natural Gas

Conditions for this source occur in the following groups: 09 - EMERGENCY ENGINES

**I. RESTRICTIONS.**

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

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 200

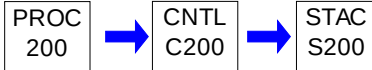
Source Name: R3 PACKAGING

Source Capacity/Throughput:

70.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 VVVVV

**I. RESTRICTIONS.**

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 201

Source Name: R6 PACKAGING

Source Capacity/Throughput:

35.000 Lbs/HR

CATALYST INTERMEDIATES

35.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 WWWV



I. RESTRICTIONS.

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

*** Permit Shield in Effect. ***

SECTION D. Source Level Requirements

Source ID: 202

Source Name: R1 LOAD HOPPER

Source Capacity/Throughput:

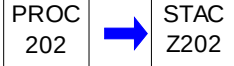
70.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 06 - LIMITED PRODUCTION ACTIVITIES

07 - TRIAL BATCH

08 - PART 63 VVVVV



I. RESTRICTIONS.

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 203

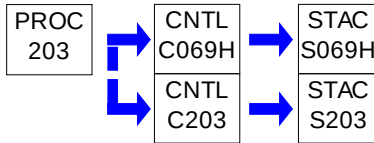
Source Name: B4 MULLER

Source Capacity/Throughput:

1.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 VVVVV



I. RESTRICTIONS.

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

*** Permit Shield in Effect. ***

**SECTION D. Source Level Requirements**

Source ID: 204

Source Name: R8 PACKAGING

Source Capacity/Throughput:

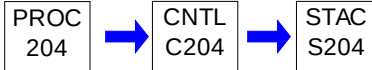
60.000 Lbs/HR

CATALYST INTERMEDIATES

60.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 WWWV

**I. RESTRICTIONS.**

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 205

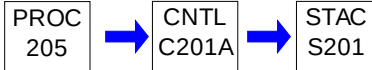
Source Name: R5/R6 VESSELS

Source Capacity/Throughput:

1.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 05 - DUST COLLECTORS
06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 VVVVV

**I. RESTRICTIONS.**

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 301

Source Name: R10 VESSEL

Source Capacity/Throughput:

115.000 Lbs/HR

CATALYST INTERMEDIATES

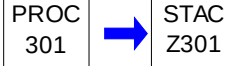
30.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 06 - LIMITED PRODUCTION ACTIVITIES

07 - TRIAL BATCH

08 - PART 63 VVVVV



I. RESTRICTIONS.

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 304

Source Name: R3 RIBBON BLENDER

Source Capacity/Throughput:

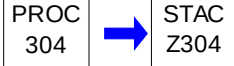
70.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 06 - LIMITED PRODUCTION ACTIVITIES

07 - TRIAL BATCH

08 - PART 63 VVVVV



I. RESTRICTIONS.

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 305

Source Name: R1 VESSEL

Source Capacity/Throughput:

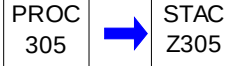
70.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 06 - LIMITED PRODUCTION ACTIVITIES

07 - TRIAL BATCH

08 - PART 63 VVVVV



I. RESTRICTIONS.

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

*** Permit Shield in Effect. ***

SECTION D. Source Level Requirements

Source ID: 306

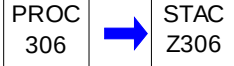
Source Name: R3 VESSEL

Source Capacity/Throughput:

1.000 Lbs/HR

CATALYST INTERMEDIATES

Conditions for this source occur in the following groups: 06 - LIMITED PRODUCTION ACTIVITIES
07 - TRIAL BATCH
08 - PART 63 VVVVV



I. RESTRICTIONS.

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

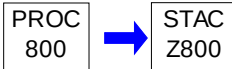
Source ID: 800

Source Name: PARTS WASHERS (3)

Source Capacity/Throughput:

1.000 Gal/HR

STODDARD SOLVENT

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.**# 001 [25 Pa. Code §129.63]****Degreasing operations**

(a) Cold cleaning machines. Except for those subject to the Federal National emissions standards for hazardous air pollutants (NESHAP) for halogenated solvent cleaners under 40 CFR Part 63 (relating to National emission standards for hazardous air pollutants for source categories), this subsection applies to cold cleaning machines that use 2 gallons or more of solvents containing greater than 5% VOC content by weight for the cleaning of metal parts.

(1) Immersion cold cleaning machines shall have a freeboard ratio of 0.50 or greater.

(2) Immersion cold cleaning machines and remote reservoir cold cleaning machines shall:

(i) Have a permanent, conspicuous label summarizing the operating requirements in paragraph (3). In addition, the label shall include the following discretionary good operating practices:

(A) Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while the part is draining. During the draining, tipping or rotating, the parts should be positioned so that solvent drains directly back to the cold cleaning machine.

(B) When a pump-agitated solvent bath is used, the agitator should be operated to produce a rolling motion of the solvent with no observable splashing of the solvent against the tank walls or the parts being cleaned.

SECTION D. Source Level Requirements

(C) Work area fans should be located and positioned so that they do not blow across the opening of the degreaser unit.

(ii) Be equipped with a cover that shall be closed at all times except during cleaning of parts or the addition or removal of solvent. For remote reservoir cold cleaning machines which drain directly into the solvent storage reservoir, a perforated drain with a diameter of not more than 6 inches shall constitute an acceptable cover.

(3) Cold cleaning machines shall be operated in accordance with the following procedures:

(i) Waste solvent shall be collected and stored in closed containers. The closed containers may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.

(ii) Flushing of parts using a flexible hose or other flushing device shall be performed only within the cold cleaning machine. The solvent spray shall be a solid fluid stream, not an atomized or shower spray.

(iii) Sponges, fabric, wood, leather, paper products and other absorbent materials may not be cleaned in the cold cleaning machine.

(iv) Air agitated solvent baths may not be used.

(v) Spills during solvent transfer and use of the cold cleaning machine shall be cleaned up immediately.

(4) After December 22, 2002, a person may not use, sell or offer for sale for use in a cold cleaning machine any solvent with a vapor pressure of 1.0 millimeter of mercury (mm Hg) or greater and containing greater than 5% VOC by weight, measured at 20°C (68°F) containing VOCs.

(5) On and after December 22, 2002, a person who sells or offers for sale any solvent containing VOCs for use in a cold cleaning machine shall provide, to the purchaser, the following written information:

(i) The name and address of the solvent supplier.

(ii) The type of solvent including the product or vendor identification number.

(iii) The vapor pressure of the solvent measured in mm hg at 20°C (68°F).

(6) A person who operates a cold cleaning machine shall maintain for at least 2 years and shall provide to the Department, on request, the information specified in paragraph (5). An invoice, bill of sale, certificate that corresponds to a number of sales, Material Safety Data Sheet (MSDS), or other appropriate documentation acceptable to the Department may be used to comply with this section.

(7) [25 Pa. Code 129.63(a)(7) is not applicable to this source.]

(b) - (e) [25 Pa. Code 129.63(b) - (d) are not applicable to this source.]

VII. ADDITIONAL REQUIREMENTS.

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

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 999

Source Name: MISC NATURAL GAS HEATERS

Source Capacity/Throughput:

1.000 MCF/HR

Natural Gas



I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 01 - EXISTING BOILERS

Group Description: Natural Gas Fired Boilers not subject to plan approval requirements.

Sources included in this group

ID	Name
CU002	BURNHAM BOILER A, 200 HP
CU004	CLEAVER BROOKS BOILER, 250 HP
CU005	BURNHAM BOILER B, 200 HP

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.

002 [25 Pa. Code §123.22]

Combustion units

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from 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 (Title V General Requirements).

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 02 - NEW BOILERS - CBEX ELITES

Group Description: Natural Gas Fired Boilers authorized by Plan Approval 25-069Q

Sources included in this group

ID	Name
CU006	CBEX BOILER, EAST
CU007	CBEX BOILER, WEST

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) Emissions of air contaminants from the source into the atmosphere shall not exceed the following.

- (1) NO_x emissions shall not exceed 9 ppm corrected to 3% O₂.
- (2) CO emissions shall not exceed 25 ppm corrected to 3% O₂.
- (3) VOC emissions shall not exceed 8 ppm corrected to 3% O₂.

(b) The owner/operator 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 10% for a period or periods aggregating more than 3 minutes in any 1 hour;
- (2) Equal to or greater than 20% at any time.

[From plan approval 25-069Q, Section D, Sources CU006 & CU007, Condition # 001.]

002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) This source is subject to the provisions of Plan Approval 25-069Q, the conditions of which are incorporated into this Title V permit. Unless an extension is authorized, plan approval 25-069Q will expire July 31, 2019. Any violation of the plan approval would also be deemed a violation of this Title V Operating Permit.

(b) This incorporation of plan approval 25-069Q into this Title V Operating Permit shall not be construed to require the permittee to implement the project that is the subject of the plan approval, unless an enforcement action, regulation or statute independently requires otherwise.

(c) This Title V permit shall not be construed to provide any independent, ongoing authority for the construction or operation of the project that is the subject of Plan Approval 25-069Q, unless and until the permittee applies for, and is granted, a future administrative amendment to this Title V permit for that project, once it has been determined by the Department to have completed its respective temporary operation phase under the authority of that plan approval.

II. TESTING REQUIREMENTS.

003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) Within 90 days of startup, a portable analyzer test for NO_x and CO shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection. The test shall be performed while the aforementioned source is operating at its maximum achievable capacity (but not less than 90% capacity as stated on the application).

(b) At least 60 calendar days prior to commencing an emissions testing program, a test protocol shall be submitted to the Department's Division of Source Testing and Monitoring and two copies to the appropriate Regional Office Department for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

[NOTE: The Department Source Testing Manual is DEP Document Number 274-0300-002 and is available on the DEP

SECTION E. Source Group Restrictions.

website at this link: <http://www.depgreenport.state.pa.us/elibrary/GetFolder?FolderID=4575>]

(c) At least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the appropriate Regional Office. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

(d) Within 15 calendar days after completion of the on-site testing portion of an emission test program, if a complete test report has not yet been submitted, an electronic mail notification shall be sent to the Department's Division of Source Testing and Monitoring and the appropriate Regional Office indicating the completion date of the on-site testing.

(e) A complete test report shall be submitted to the Department no later than 30 calendar days after completion of the on-site testing portion of an emission test program.

(f) A complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or non-compliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:

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

(2) Permit number(s) and condition(s) which are the basis for the evaluation.

(3) Summary of results with respect to each applicable permit condition.

(4) Statement of compliance or non-compliance with each applicable permit condition.

(g) All submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

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

(i) All submittals, besides notifications, shall be accomplished through PSIMS*Online available through <https://www.depgreenport.state.pa.us/ecommm/Login.jsp> when it becomes available. If internet submittal cannot be accomplished, one copy of the submittal shall be sent to the Pennsylvania Department of Environmental Protection, Bureau of Air Quality, Division of Source Testing and Monitoring, 400 Market Street, 12th Floor Rachael Carson State Office Building, Harrisburg, PA 17105-8468 with deadlines verified through document postmarks. In a like manner, two copies of the submittal shall be sent to the appropriate Regional Office.

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

(k) Actions Related to Noncompliance Demonstrated by Test:

(1) If the results of a test, performed as required by this approval, exceed the level specified in any condition of this approval, the Permittee shall take appropriate corrective actions. Within 10 days of the Permittee receiving the test results, a written description of the corrective actions shall be submitted to the Department. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. The Department shall notify the Permittee within 30 days, if the corrective actions taken are deficient. Within 10 days of receipt of the notice of deficiency, the Permittee shall submit a description of additional corrective actions to the Department. The Department reserves the authority to use enforcement activities to resolve noncompliant tests.

(2) If the results of the required test exceed any limit defined in this plan approval, the test was not performed in accordance with the test protocol or the source and/or air cleaning device was not operated in accordance with the plan approval, then another test shall be performed to determine compliance. Within 30 days of the Permittee receiving the original test results, a retest shall be performed. The Department may extend the retesting deadline if the Permittee demonstrates, to the Department's satisfaction, that retesting within 30 days is not practicable. Failure of the second test to demonstrate compliance with the limits in the plan approval, not performing the test in accordance with the test protocol or not operating the source and/or air cleaning device in accordance with the plan approval may be grounds for immediate

SECTION E. Source Group Restrictions.

revocation of the plan approval to operate the affected source.

(l) Within 12 to 18 months prior to the expiration of the facility operating permit, a test for NO_x and CO shall be performed in accordance with the above provisions (a) through (k) as applicable.

[From plan approval 25-069Q, Section D, Sources CU006 & CU007, Condition # 002.]

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

For the initial and periodic testing condition of plan approval 25-069Q, a portable analyzer approved by the Department may be used as an indicator of compliance. The portable analyzer may employ test method ASTM D6522 or equivalent.

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The source's fuel usage shall be recorded monthly.

(b) All visible emission observations conducted to comply with the monitoring requirements of this source shall be recorded in a log which shall contain the following at a minimum:

- (1) Time and date of observation;
- (2) Name, title, and signature of the observer;
- (3) A detailed description of the observation made;
- (4) Any corrective action taken as result of the observation.

(c) All inspection observations and maintenance performed on the source shall be recorded in a log. This record shall, at a minimum, include:

- (1) Time and date of observation;
- (2) Name, title, and signature of the observer;
- (3) A detailed description of the observation made;
- (4) Any corrective action taken as result of the observation.

[From plan approval 25-069Q, Section D, Sources CU006 & CU007, Condition # 003.]

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

All records required under 40 CFR Part 60 Subpart Dc and all records required by this permit shall be maintained by the owner or operator of the affected facility for a period of 5 years following the date of such record.

[This operating permit condition is derived from 40 CFR §60.48c(i) and from plan approval 25-069Q, Section C, Condition # 001(b).]

007 [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) The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction and actual startup, as provided by §60.7 of this part. This notification shall include:

- (1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.
- (2) - (4) [Not applicable.]

(b) - (f) [Not applicable.]

SECTION E. Source Group Restrictions.

(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 SO₂ 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 SO₂ 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) [Not applicable.]

(i) [Paragraph (i) of the regulation is streamlined out of the permit in favor of a 25 Pa. Code § 127.441 condition requiring records to be maintained for 5 years.]

(j) [Not applicable.]

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

V. REPORTING REQUIREMENTS.

008 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Any information required to be submitted as part of this plan approval should be submitted to the attention of New Source Review Section Chief, Air Quality Program, Northwest Regional Office, 230 Chestnut Street, Meadville, PA 16335.

[From plan approval 25-069Q, Section C, Condition # 001(c).]

VI. WORK PRACTICE REQUIREMENTS.

009 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee shall install and maintain the necessary meter(s) to determine and record the source's fuel usage.

(b) A copy of the manufacturer's operational and maintenance literature shall be maintained on site and shall be readily available.

(c) The permittee shall perform a tune-up of the combustion process at a minimum frequency of once every 18 months or the frequency recommended by the manufacturer, whichever is most often. The emissions of NO_x shall be minimized by combustion tuning, good operating practices and good air pollution control practices. The tune-up shall include, but not be limited to, the following:

(1) Inspection, adjustment, cleaning or replacement of fuel-burning equipment, including the burners and moving parts necessary for proper operation as specified by the manufacturer.

(2) Inspection of the flame pattern or characteristics and adjustments necessary to minimize total emissions of NO_x, and to the extent practicable minimize emissions of CO.

(3) Inspection of the air-to-fuel ratio control system and adjustments necessary to ensure proper calibration and operation as specified by the manufacturer.

(4) Recording all adjustments in a permanently bound log book or in electronic media containing, at a minimum, the following information:

(i) The date of the tuning procedure.

(ii) The name of the service company and name, title, and signature of the technicians.

(iii) The final operating rate or load.

(iv) The final CO and NO_x emission rates in ppm.

SECTION E. Source Group Restrictions.

(v) The final excess oxygen rate.

[From plan approval 25-069Q, Section D, Sources CU006 & CU007, Condition # 004.]

VII. ADDITIONAL REQUIREMENTS.

010 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Incorporation of a plan approval into a current Operating Permit is contingent upon satisfactory compliance with the plan approval conditions, upon the source and control device being installed and operated as stated within the application, and upon satisfactory demonstration that the emissions from the source will not be in violation of applicable Rules and Regulations of the Department.

[From plan approval 25-069Q, Section C, Condition # 001(a).]

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 03 - DEWAX OVENS & THERMAL OXIDIZERS

Group Description: Requirements for DeWax Ovens # 1 & #2 in Building 300

Sources included in this group

ID	Name
042	DEWAX OVEN 1 (BUILDING 300)
069E	DEWAX OVEN 2 (BUILDING 300)

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 SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

II. TESTING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Within 180 days of operating at temperature lower than 1,400 °F, the permittee shall conduct a performance test of each thermal oxidizer at the new operating temperature to demonstrate that the thermal oxidizer destruction efficiency of VOC remains at or better than the manufacturer rating of 98 percent while operating at the lower approved temperature.

[From October 18, 2017, RFD approval, as amended with the July 30, 2018, approval of the January 11, 2018, request for extension, for Sources 042 & 069E.]

III. MONITORING REQUIREMENTS.

003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The facility shall install, maintain and operate a temperature-recording chart to indicate the thermal oxidizer temperature during all times that the control is in operation.

(b) The recording data shall be made available to Department personnel upon request.

[Compliance with (a) and (b) of this permit condition assures compliance with the following plan approval conditions:

- Condition #5 of Plan Approval # 25-313-042 for Source 042.
- Condition #7 of Plan Approval # PA-25-069E for Source 069E.]

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

For DeWax Oven #2 (Source 069E), temperature sensing devices shall be installed at a place to show that the exhaust gases, prior to being discharged into the atmosphere, have achieved a minimum temperature of 1,150 °F for at least 0.8 seconds.

[From Condition #6 of Plan Approval # PA-25-069E as amended by the October 18, 2017, RFD approval. Prior to the

SECTION E. Source Group Restrictions.

10/18/2017 RFD approval, this condition previously read, "Temperature sensing devices shall be installed at a place to show that the exhaust gases, prior to being discharged into the atmosphere, have achieved a minimum temperature of 1,400 °F for at least 0.8 seconds."]

005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

For DeWax Oven #1 (Source 042), a temperature sensing device shall be installed at a place where the residence time of 1.0 second is achieved, to show that the exhaust gases, prior to leaving the thermal oxidizer, have achieved a temperature of no less than 1,150 °F.

[From Condition #4 of Plan Approval # 25-313-042 as amended by the October 18, 2017, RFD approval. Prior to the 10/18/2017 RFD approval, this condition previously read, "Temperature sensing device shall be installed at a place where the residence time of 1.0 second is achieved, to show that the exhaust gases, prior to leaving the thermal oxidizer, have achieved a temperature of no less than 1,400 °F."]

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

[Compliance with this permit conditions for all sources of this source group assures compliance with Condition #8 of Plan Approval # PA-25-069E for Source 069E.]

VII. ADDITIONAL REQUIREMENTS.

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

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 04 - R9 LOAD HOPPER & VESSEL

Group Description: Requirements from plan approval 25-069N for Sources 115 & 116

Sources included in this group

ID	Name
115	R9 LOAD HOPPER
116	R9 VESSEL

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

No person may permit the emission into the outdoor atmosphere of particulate matter from any process in a manner that the concentration of particulate matter in the effluent gas exceed .04 grain per dry standard cubic foot.

Throughput Restriction(s).**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The plan approval for sources 115 and 116 only authorizes the production of Calcined Chrome Oxide.

[Authorization from Plan Approval 25-069N]

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

The Department reserves the right to require exhaust stack testing of any source as necessary to determine compliance with any applicable requirement.

[Authorization from Plan Approval 25-069N]

III. MONITORING REQUIREMENTS.

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

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

(a) The permittee shall maintain a record of all preventative maintenance inspections of the source. These inspections/maintenance records shall, at a minimum, contain the following:

- (i) The Manufacturer's recommended maintenance schedule;
- (ii) The dates of inspections/maintenance;
- (iii) Description of any problems or defects which may affect air pollution;
- (iv) Action taken to correct problems or defects; and
- (v) Any routine maintenance performed.

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

[Authorization from Plan Approval 25-069N as amended on August 23, 2018.]

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

(a) The permittee shall keep sufficient records of production for Source 116, the R9 Vessel, to demonstrate compliance with plan approval 25-069N. These records shall, at a minimum, contain the following:

SECTION E. Source Group Restrictions.

- (i) Throughput for each batch; and
- (ii) Duration of each batch.

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

[Authorization from Plan Approval 25-069N]

006 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

- (a) The facility shall keep a record of the following when the rupture disk has activated:
 - (i) Date/time of the activation;
 - (ii) The cause of the overpressure condition that caused the activation; and
 - (iii) An estimate of the mass of regulated pollutant emitted, and a description of the method used to determine the emissions.

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

(c) The activation of a rupture disk shall be reported as a malfunction in accordance with 40 CFR Part 63 Subpart VVVV and in accordance with the reporting requirements of Sections B and C of this Title V permit.

[Compliance with this operating permit condition assures compliance with Plan approval 25-069N, Section D, Source 115, Condition 008 and Section D, Source 116, Condition 006.]

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

007 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee shall, at a minimum, conduct quarterly preventative maintenance inspections of source 116, the R9 Vessel.

(b) The permittee shall, at a minimum, conduct semi-annual preventative maintenance inspections of source 115, the R9 Load Hopper.

(c) The permittee shall maintain and operate the sources in accordance with the manufacturers' specifications and in accordance with good air pollution control practices.

[Authorization from Plan Approval 25-069N as amended on August 23, 2018.]

VII. ADDITIONAL REQUIREMENTS.

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

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 05 - DUST COLLECTORS

Group Description: State requirements for dust collectors

Sources included in this group

ID	Name
014	J1 DRYER & CALCINER
027	J3 DRYER
036	A2 MIX TANK LOADING
040	B2 DRYER
043	TABLETING CELLS 5 & 6 (BUILDING 102)
044	TABLETING CELLS 1 & 2 (BUILDING 102)
046	TABLETING CELLS 3 & 4 (BUILDING 102)
047	TABLETING CELLS 7 & 8 (BUILDING 102)
051	TABLETING CELL 9
053	B2 CALCINER
069D	BLDG 350 SCREENER
069F	A2 CONE MIXERS
069G	A5 CALCINER LOADING & PACKAGING
069H	B4 PACKAGING
117	BUILDING A6
118	BUILDING H
119	SHED WAREHOUSE
200	R3 PACKAGING
201	R6 PACKAGING
203	B4 MULLER
204	R8 PACKAGING
205	R5/R6 VESSELS

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

[This emission restriction applies to all sources of this source group EXCEPT for the following which are subject to a more stringent emission limit from plan approvals.

- 054, Blender 2 (East);
- 055, Blender 1 (Middle);
- 069H, B4 Packaging;
- 201, R6 Packaging; and
- 205, R5/R6 Vessels.]

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

002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[This emission restriction applies only to the following sources of this source group.

- 054, Blender 2 (East);
- 055, Blender 1 (Middle);
- 069H, B4 Packaging;
- 201, R6 Packaging; and
- 205, R5/R6 Vessels.]

SECTION E. Source Group Restrictions.

No person may permit the emission into the outdoor atmosphere of particulate matter from any process in a manner that the concentration of particulate matter in the effluent gas exceeds any of the following 0.02 grain per dry standard cubic foot.

[This emission restriction is from the following plan approvals:

- Plan Approval 25-313-054 Condition # 4 for source 054;
- Plan Approval 25-313-055 Condition # 4 for source 055;
- Plan Approval 25-069H Condition 5 for source 069H; and
- Plan Approval 25-069M, Section E, R5 & R6 Dust Collectors Source Group, Condition #001 for sources 201 & 205.]

II. TESTING REQUIREMENTS.

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

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

The pressure drop across each control device shall be recorded at least once per week while the source is operating.

[Compliance with this operating permit condition for all sources of this source group assures compliance with the following plan approvals.

- Plan Approval 25-069F Condition 6 for source 069F.
- Plan Approval 25-069G Condition 6 for source 069G.
- Plan Approval 25-069H Condition 8 for source 069H.]

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

The following pressure drop ranges were submitted by BASF with the April 2018 revised Title V application and were approved by the Department on June 8, 2018, as part of the review of the Title V permit application.

(a) The following sources controlled with Donaldson-Torit dust collectors and Airtrol dust collectors shall be operated with the pressure drop across the control device in the range of 0.5 and 6 inches w.c.

- 014,
- 027,
- 036,
- 040,
- 043,
- 044,
- 046,
- 047,
- 051,
- 053,
- 069D,
- 069F,
- 069G,
- 069H,
- 117,
- 118,
- 119,
- 200,
- 201,
- 204, and
- 205.

(b) The following source controlled with a dust collector manufactured by Young Industries shall be operated with the pressure drop across the control device in the range of 0.5 and 11 inches w.c.

- 203.

SECTION E. Source Group Restrictions.

[This operating permit condition assures compliance with the following plan approvals. Plan approval 25-069H for Source 069H. Plan approval 25-069M for Sources 201 & 205.]

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain a maintenance log for any control device(s) associated with this source. This record shall indicate at a minimum:

- (1) the date of each preventative maintenance inspection;
- (2) the identity of the person performing the inspection;
- (3) the date of bag/cartridge replacement;
- (4) any problems or defects;
- (5) the actions taken to correct the problem(s) or defect(s);
- (6) any routine maintenance performed.

(b) Records shall be maintained on site for a minimum of 5 years and shall be made available to the Department upon request.

[Compliance with paragraphs (a) and (b) of this operating permit condition for all sources of this source group assures compliance with the following approval(s).

- Plan Approval 25-069D Condition 6 for source 069D;
- Plan Approval 25-069F Conditions 4, 5, 6, & 7 for source 069F;
- Plan Approval 25-069G Conditions 4, 5, 6, & 7 for source 069G;
- Plan Approval 25-069H Condition 9 for source 069H; and
- Plan Approval 25-069M, Section E, R5 & R6 Dust Collectors Source Group, Condition #002 for Sources 201 & 205.]

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall perform preventative maintenance inspections of each control device at least once per week.

(b) Routine maintenance, repair and replacement of the fabric collector components and filter elements shall be performed during equipment down time or during production periods when no particulate matter will be emitted.

(c) The permittee shall keep on hand for emergency replacement 25 percent of the total number of filter elements used at the facility.

(d) The permittee shall maintain a magnehelic gauge or similar device to measure the pressure drop across each control device.

(e) The control device associated with the source is to be in operation at all times that the source is in operation.

(f) Each control device shall be maintained and operated in accordance with the manufacturer's recommendations and in a manner consistent with good air pollution control practices.

[Compliance with paragraphs (a) through (f) of this operating permit condition for all sources of this source group assures compliance with the following approvals.

- Plan Approval 25-313-034 Condition 2 for source 034;
- Plan Approval 25-313-040 Condition 5 for source 040;
- Plan Approval 25-313-043 Condition 4 for source 043;

SECTION E. Source Group Restrictions.

- Plan Approval 25-313-044 Condition 4 for source 044;
- Plan Approval 25-313-046 Condition 4 for source 046;
- Plan Approval 25-313-047 Condition 4 for source 047;
- Plan Approval 25-313-049 Conditions 5 & 6 for source 049;
- Plan Approval 25-313-052 Conditions 5 & 6 for source 052;
- Plan Approval 25-313-053 Conditions 5 & 6 for source 053;
- Plan Approval 25-313-054 Condition 5 for source 054;
- Plan Approval 25-313-055 Condition 5 for source 055;
- Plan Approval 25-069A Condition 5 for source 069A;
- Plan Approval 25-069D Conditions 7 & 8 for source 069D;
- Plan Approval 25-069F Conditions 4, 5, & 7 for source 069F;
- Plan Approval 25-069G Conditions 4, 5, & 7 for source 069G;
- Plan Approval 25-069H Conditions 4, 6, 7, 9, 11, & 12 for source 069H; and
- Plan Approval 25-069M, Section E, R5 & R6 Dust Collectors Source Group, Condition #003, paragraphs (a) through (f) for Sources 201 & 205.]

VII. ADDITIONAL REQUIREMENTS.

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

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 06 - LIMITED PRODUCTION ACTIVITIES

Group Description: Limited time/small quantity production runs in accordance with §127.14(a)(9).(See Section H(g))

Sources included in this group

ID	Name
014	J1 DRYER & CALCINER
019A	J3 PACKAGING
025E	BUILDING 300 VESSELS, DRYERS, MILL, & PACKAGING
027	J3 DRYER
032A	A5 CALCINER
033	A2 MIX TANK
034	J1 PACKAGING
036	A2 MIX TANK LOADING
037A	R9/R10 WEIGH HOPPER
037A2	R10 LOAD HOPPER
040	B2 DRYER
042	DEWAX OVEN 1 (BUILDING 300)
043	TABLETING CELLS 5 & 6 (BUILDING 102)
044	TABLETING CELLS 1 & 2 (BUILDING 102)
046	TABLETING CELLS 3 & 4 (BUILDING 102)
047	TABLETING CELLS 7 & 8 (BUILDING 102)
048	METAL DISSOLVING
049	BUILDING 300 LOAD HOPPER AND FLUID BED
051	TABLETING CELL 9
052	B2 PACKAGING
053	B2 CALCINER
054	BLENDER 2 (EAST) (BUILDING 102)
055	BLENDER 1 (MIDDLE) (BUILDING 102)
069A	BLENDER 3 (WEST) (BUILDING 102)
069D	BLDG 350 SCREENER
069E	DEWAX OVEN 2 (BUILDING 300)
069F	A2 CONE MIXERS
069G	A5 CALCINER LOADING & PACKAGING
069H	B4 PACKAGING
115	R9 LOAD HOPPER
116	R9 VESSEL
117	BUILDING A6
118	BUILDING H
119	SHED WAREHOUSE
200	R3 PACKAGING
201	R6 PACKAGING
202	R1 LOAD HOPPER
203	B4 MULLER
204	R8 PACKAGING
205	R5/R6 VESSELS
301	R10 VESSEL
304	R3 RIBBON BLENDER
305	R1 VESSEL

SECTION E. Source Group Restrictions.

306 R3 VESSEL

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

This permit authorizes the permittee to conduct Limited Production Activities as long as the total of emissions from all limited production activities does not exceed the following emission limits on a 12-month rolling basis:

- (a) Carbon Monoxide - 20 tons per year
- (b) PM10 - 3 tons per year
- (c) Sulfur Oxides - 8 tons per year
- (d) Volatile Organic Compounds - 8 tons per year
- (e) Nitrogen Oxides - 10 tons per year
- (f) Lead - 0.12 tons per year
- (g) Other Hazardous Air Pollutants, excluding lead and hexavalent chromium - 1 ton per year of any single HAP and 2.5 tons per year of any combination of HAPs.

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

Under no circumstances does the authorization for a Limited Production Activity allow the permittee to exceed any source specific emission limits or other restrictions contained in this permit.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.**# 003 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

While using any source listed above in this Source Group for Limited Production Activities, the facility shall monitor and record, at least once per week, the following parameters on any control devices attached to the source.

- (a) Scrubber
 - (1) Pressure drop;
 - (2) Water flow rate; and
 - (3) Any chemical additions to the make-up water.
- (b) Dust Collectors
 - Pressure drop.
- (c) Thermal Oxidizer
 - Exhaust Temperature.

IV. RECORDKEEPING REQUIREMENTS.**# 004 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

- (a) While using any source listed above in this Source Group for Limited Production Activities, the permittee shall maintain a record of all preventative maintenance inspections of any control devices attached to that source.

SECTION E. Source Group Restrictions.

(b) The permittee shall maintain a maintenance log for any control device(s) associated with this source. This record shall indicate at a minimum:

- (1) the date of each preventative maintenance inspection;
- (2) the identity of the person performing the inspection;
- (3) any problems or defects;
- (4) the actions taken to correct the problem(s) or defect(s); and
- (5) any routine maintenance performed.

(c) The permittee shall maintain the following records concerning Limited Production Activities:

- (1) raw materials used and amounts;
- (2) production dates and production quantities;
- (3) production and control equipment used;
- (4) total amount of pollutants emitted, including calculations and assumptions used to calculate emissions; and
- (5) 12 month rolling total of emissions. The permittee shall total the monthly emissions of all Limited Production Activities together for the current month and add that total to the totals from the previous 11 months to determine the current 12 consecutive month rolling total.

V. REPORTING REQUIREMENTS.

005 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

(a) The facility shall provide a semi annual report of the Limited Production Activities that are exempt from plan approval under the Limited Production Activities Subgroup.

(b) The reporting periods will be as follows and each report is due to the Department within 30 days of the last day of the reporting period.

- January 1 to June 30; and
- July 1 through December 31.

(c) The report shall include the following:

- (1) a brief description of the Limited Production Activities;
- (2) the sources and control devices affected by the Limited Production Activities;
- (3) the quantity of production, batch start time and duration; and
- (4) the emissions from the individual Limited Production Activities for the reporting period; and
- (5) the 12 consecutive month emissions totals of all Limited Production Activities.

(d) Upon review of the reports by the Department, the facility shall provide any additional information requested by the Department to support the evaluation of the emissions calculated.

(e) The report shall be submitted to:

Bureau of Air Quality
Department of Environmental Protection
230 Chestnut Street
Meadville, PA 16335

006 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall include all production and emission amounts associated with limited time and small quantity production runs in the annual emission inventory submittal for each source.

VI. WORK PRACTICE REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In order to conduct any Limited Production Activities on any source listed above in this Source Group, the permittee shall permanently install and maintain the following monitoring devices on any control devices attached to such source as

SECTION E. Source Group Restrictions.

applicable:

(a) Scrubber

- (1) Pressure drop gauge (magnehelic or equivalent);
- (2) Water flow rate meter (rotameter or equivalent); and
- (3) pH meter for any chemical additions to the make-up water.

(b) Fabric Collector or Cartridge Collector

- Pressure drop gauge (magnehelic or equivalent)

(c) Thermal Oxidizer

- (1) Exhaust Temperature thermocouple

(2) Temperature sensing devices shall be installed at a place to show that the exhaust gases, prior to being discharged into the atmosphere, have achieved a minimum temperature of 1,150 °F for at least 0.8 seconds or an alternative temperature and residence time demonstrated to provide adequate destruction efficiency. [Authorization for minimum temperature of 1,150 °F for sources 042 & 069E is from Oct. 18, 2017, RFD approval and subsequent Jan. 11, 2018, approval.]

(d) The monitoring devices shall be installed at a conveniently readable location and shall be maintained in accordance with the manufacturers' specifications.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

During Limited Production Activities on any source listed above in this Source Group, the following conditions apply to the source(s) being used for such Limited Production Activity:

(a) Routine maintenance, repair, and replacement of any control device shall be performed during equipment down time or during production periods when no emissions occur.

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

(c) The permittee shall maintain the any control device in accordance with the manufacturer's specifications and consistent with good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

009 [25 Pa. Code §127.14]

Exemptions.

[From 25 Pa. Code §127.14(a)(9):]

(a) Plan approval is not required for the construction, modification, reactivation or installation of the following:

- (1) - (8) [Refer to regulation for §127.14(a)(1) through (8).

(9) Physical changes to sources when the Department has determined the physical changes to be of minor significance.

(b) - (d) [Refer to regulation for §127.14(b) through (d).

[Refer to the Department document number 275-2101-003, Titled, "Air Quality Permit Exemptions", for additional guidance on 'Physical Changes Qualifying for Exemption Under Section 127.14(a)(9).]

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Limited Production Activities are limited time and/or small quantity production runs of products not specifically permitted to be run on the sources listed in this group. Limited Production Activities are allowed in accordance with §127.14(a)(9).

SECTION E. Source Group Restrictions.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

In accordance with 25 Pa. Code §127.14(a)(9), the permittee is authorized by this permit to conduct Limited Production Activities using any source listed above in this Source Group provided that such activities meet one or more of the following provisions:

- (1) Changes in the supplier or formulation of raw materials used which do not increase emissions above the current permitted emission rate from the source,
- (2) Changes in product formulations that do not increase emissions above the current permitted emission rate from the source,
- (3) Changes that result in different pollutant speciation (i.e. particulate HAPs, VOC HAPs) but fall within the specified limitations within the permit,
- (4) Changes in the method of raw material addition,
- (5) Changes in temperature, pressure, or other operational parameters that do not adversely affect air pollution control equipment performance or results in an increase in air emissions,
- (6) Movement of a source and associated control equipment from one location to another at the facility with no change in operation or controls,
- (7) Installation of an air-cleaning device that is not installed to comply with regulatory requirements and which will not be used to generate emission reduction credits,
- (8) The temporary replacement, not to exceed six months, of a source with a source of equal or less emission potential.

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 07 - TRIAL BATCH

Group Description: A Trial Batch is the production of material intended for research and product development.

Sources included in this group

ID	Name
014	J1 DRYER & CALCINER
019A	J3 PACKAGING
025E	BUILDING 300 VESSELS, DRYERS, MILL, & PACKAGING
027	J3 DRYER
032A	A5 CALCINER
033	A2 MIX TANK
034	J1 PACKAGING
036	A2 MIX TANK LOADING
037A	R9/R10 WEIGH HOPPER
037A2	R10 LOAD HOPPER
040	B2 DRYER
042	DEWAX OVEN 1 (BUILDING 300)
043	TABLETING CELLS 5 & 6 (BUILDING 102)
044	TABLETING CELLS 1 & 2 (BUILDING 102)
046	TABLETING CELLS 3 & 4 (BUILDING 102)
047	TABLETING CELLS 7 & 8 (BUILDING 102)
048	METAL DISSOLVING
049	BUILDING 300 LOAD HOPPER AND FLUID BED
051	TABLETING CELL 9
052	B2 PACKAGING
053	B2 CALCINER
054	BLENDER 2 (EAST) (BUILDING 102)
055	BLENDER 1 (MIDDLE) (BUILDING 102)
069A	BLENDER 3 (WEST) (BUILDING 102)
069D	BLDG 350 SCREENER
069E	DEWAX OVEN 2 (BUILDING 300)
069F	A2 CONE MIXERS
069G	A5 CALCINER LOADING & PACKAGING
069H	B4 PACKAGING
115	R9 LOAD HOPPER
116	R9 VESSEL
117	BUILDING A6
118	BUILDING H
119	SHED WAREHOUSE
200	R3 PACKAGING
201	R6 PACKAGING
202	R1 LOAD HOPPER
203	B4 MULLER
204	R8 PACKAGING
205	R5/R6 VESSELS
301	R10 VESSEL
304	R3 RIBBON BLENDER
305	R1 VESSEL

SECTION E. Source Group Restrictions.

306 R3 VESSEL

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.14]

Exemptions.

[From 25 Pa. Code §127.14(a)(8):]

(a) Plan approval is not required for the construction, modification, reactivation or installation of the following:

(1) - (7) [Refer to regulation for §127.14(a)(1) through (8).

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

(9) [Refer to regulation for §127.14(a)(9).

(b) - (d) [Refer to regulation for §127.14(b) through (d).

[Refer to exemption number 25 of the Department document number 275-2101-003, Titled, "Air Quality Permit Exemptions", for additional guidance on 'Section 127.14(a)(8) Exemption.]

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This permit authorizes the permittee to conduct research and product development of a Trial Batch as long as the total of emissions from all Trial Batches do not exceed the following emission limits on a 12-month rolling basis:

(a) Carbon Monoxide - 20 tons per year

(b) PM10 - 3 tons per year

(c) Sulfur Oxides - 8 tons per year

(d) Volatile Organic Compounds - 8 tons per year

(e) Nitrogen Oxides - 10 tons per year

(f) Lead - 0.12 tons per year

(g) Other Hazardous Air Pollutants, excluding lead and hexavalent chromium - 1 ton per year of any single HAP and 2.5 tons per year of any combination of HAPs.

[This operating permit condition is derived from PA DEP BAQ document number 275-2101-003, Section 127.14(a)(8) exemption # 25.]

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Under no circumstances does the authorization for a trial batch allow the permittee to exceed any source specific emission limits or other restrictions contained in this permit.

II. TESTING REQUIREMENTS.

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

SECTION E. Source Group Restrictions.

III. MONITORING REQUIREMENTS.

004 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

While using any source listed above in this Source Group for Trial Batch activities, the facility shall monitor and record, at least once per week, the following parameters on any control device attached to the source.

- (a) Scrubber
 - (1) Pressure drop;
 - (2) Water flow rate; and
 - (3) Any chemical additions to the make-up water.
- (b) Dust Collectors
 - Pressure drop.
- (c) Thermal Oxidizer
 - Exhaust Temperature.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

(a) While using any source listed above in this Source Group for Trial Batch activities, the permittee shall maintain a record of all preventative maintenance inspections of any control devices attached to that source.

(b) The permittee shall maintain a maintenance log for any control device(s) associated with this source. This record shall indicate at a minimum:

- (1) the date of each preventative maintenance inspection;
- (2) the identity of the person performing the inspection;
- (3) any problems or defects;
- (4) the actions taken to correct the problem(s) or defect(s); and
- (5) any routine maintenance performed.

(c) The permittee shall maintain the following records concerning Trial Batch production:

- (1) raw materials used and amounts;
- (2) production dates and production quantities;
- (3) production and control equipment used;
- (4) total amount of pollutants emitted, including calculations and assumptions used to calculate emissions; and
- (5) 12 month rolling total of emissions. The permittee shall total the monthly emissions of all Trial Batches together for the current month and add that total to the totals from the previous 11 months to determine the current 12 consecutive month rolling total.

V. REPORTING REQUIREMENTS.

006 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

(a) The facility shall provide a semi annual report of the Trial Batch activities that are exempt from plan approval under the Trial Batch Subgroup.

(b) The reporting periods will be as follows and each report is due to the Department within 30 days of the last day of the reporting period.

- January 1 to June 30; and
- July 1 through December 31.

(c) The report shall include the following:

- (1) a brief description of the Trial Batch;
- (2) the sources and control devices affected by the Trial Batch;

SECTION E. Source Group Restrictions.

- (3) the quantity of production, batch start time and duration;
- (4) the emissions from the individual Trial Batches for the reporting period; and
- (5) the 12 consecutive month emissions totals of all Trial Batches.

(d) Upon review of the reports by the Department, the facility shall provide any additional information requested by the Department to support the evaluation of the emissions calculated.

(e) The report shall be submitted to:
Bureau of Air Quality
Department of Environmental Protection
230 Chestnut Street
Meadville, PA 16335

VI. WORK PRACTICE REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall take all reasonable actions, including incorporating the use of existing control equipment at the facility, to reduce and minimize air pollutants during Trial Batch production.

VII. ADDITIONAL REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

A Trial Batch is the production of material intended for research and product development.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Prior to conducting a Trial Batch, the permittee shall calculate the anticipated emissions from the Trial Batch to determine if the 12-month limits contained in the Emission Restrictions condition #001, above, would be exceeded. If the Trial Batch would result in a 12-month rolling total higher than the limits in condition #001, then the facility is not authorized to run the batch prior to obtaining a plan approval.

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 08 - PART 63 WWWV

Group Description: 40 CFR Part 63 Subpart WWWV, NESHAPS for Chemical Manufacturing Area Sources

Sources included in this group

ID	Name
014	J1 DRYER & CALCINER
019A	J3 PACKAGING
025E	BUILDING 300 VESSELS, DRYERS, MILL, & PACKAGING
027	J3 DRYER
032A	A5 CALCINER
033	A2 MIX TANK
034	J1 PACKAGING
036	A2 MIX TANK LOADING
037A	R9/R10 WEIGH HOPPER
037A2	R10 LOAD HOPPER
040	B2 DRYER
043	TABLETING CELLS 5 & 6 (BUILDING 102)
044	TABLETING CELLS 1 & 2 (BUILDING 102)
046	TABLETING CELLS 3 & 4 (BUILDING 102)
047	TABLETING CELLS 7 & 8 (BUILDING 102)
048	METAL DISSOLVING
049	BUILDING 300 LOAD HOPPER AND FLUID BED
051	TABLETING CELL 9
052	B2 PACKAGING
053	B2 CALCINER
054	BLENDER 2 (EAST) (BUILDING 102)
055	BLENDER 1 (MIDDLE) (BUILDING 102)
069A	BLENDER 3 (WEST) (BUILDING 102)
069F	A2 CONE MIXERS
069G	A5 CALCINER LOADING & PACKAGING
069H	B4 PACKAGING
115	R9 LOAD HOPPER
116	R9 VESSEL
117	BUILDING A6
200	R3 PACKAGING
201	R6 PACKAGING
202	R1 LOAD HOPPER
203	B4 MULLER
204	R8 PACKAGING
205	R5/R6 VESSELS
301	R10 VESSEL
304	R3 RIBBON BLENDER
305	R1 VESSEL
306	R3 VESSEL

I. RESTRICTIONS.

SECTION E. Source Group Restrictions.

Control Device Efficiency Restriction(s).

001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Part 63 Subpart VVVVVV Table 2]

SUBPART VVVVVV - National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources

Emission Limits and Compliance Requirements for Batch Process Vents

[Source 025E only]

[This condition applies to the Reactors and Box Dryers of Source 025E which are controlled by the scrubber system. Only Item 1.a. of Table 2 to Part 63 Subpart VVVVVV applies to this facility. The regulatory text from Table 2 which does not apply to this facility is omitted from this condition.]

As required in §63.11496, you must comply with the requirements for batch process vents as shown in the following table.

1.a. For Batch process vents in a CPMU at an existing source for which the total organic HAP emissions are equal to or greater than 10,000 lb/yr, you must reduce collective uncontrolled total organic HAP emissions from the sum of all batch process vents by ≥ 85 percent by weight or to ≤ 20 ppmv by routing emissions from a sufficient number of the batch process vents through a closed vent system to any combination of control devices (except a flare) in accordance with the requirements of §63.982(c) and the requirements referenced therein. Except . . .

i. Compliance may be based on either total organic HAP or total organic carbon (TOC); and

ii. As specified in §63.11496(g).

[Source: 74 FR 56041, Oct. 29, 2009]

002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Part 63 Subpart VVVVVV Table 4]

SUBPART VVVVVV - National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources

Emission Limits and Compliance Requirements for Metal HAP Process Vents

As required in §63.11496(f), you must comply with the requirements for metal HAP process vents as follows:

For each CPMU with total metal HAP emissions ≥ 400 lb/yr, you must reduce collective uncontrolled emissions of total metal HAP emissions by ≥ 95 percent by weight by routing emissions from a sufficient number of the metal process vents through a closed-vent system to any combination of control devices, according to the requirements of §63.11496(f)(3), (4), or (5).

[Source: 74 FR 56041, Oct. 29, 2009]

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10]

Subpart A--General Provisions

Recordkeeping and reporting requirements.

[Applicable paragraphs from 40 CFR §63.10(b) as referenced by §63.11501(c) and Table 9 to 40 CFR Part 63 Subpart VVVVVV]

(b) General recordkeeping requirements.

SECTION E. Source Group Restrictions.

(1) The owner or operator of an affected source subject to the provisions of this part shall maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche.

(2) The owner or operator of an affected source subject to the provisions of this part shall maintain relevant records for such source of—

(i) - (ii) [Not applicable]

(iii) All required maintenance performed on the air pollution control and monitoring equipment;

(iv) - (xiii) [Not applicable]

(xiv) All documentation supporting initial notifications and notifications of compliance status under §63.9.

[59 FR 12430, Mar. 16, 1994, as amended at 64 FR 7468, Feb. 12, 1999; 67 FR 16604, Apr. 5, 2002; 68 FR 32601, May 30, 2003; 69 FR 21752, Apr. 22, 2004; 71 FR 20455, Apr. 20, 2006]

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11496]

SUBPART VVVVVV - National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources

What are the standards and compliance requirements for process vents?

(a) Organic HAP emissions from batch process vents. You must comply with the requirements in paragraphs (a)(1) through (4) of this section for organic HAP emissions from your batch process vents for each CMPU using Table 1 organic HAP. If uncontrolled organic HAP emissions from all batch process vents from a CMPU subject to this subpart are equal to or greater than 10,000 pounds per year (lb/yr), you must also comply with the emission limits and other requirements in Table 2 to this subpart.

[Note that the reactors and box drying of Source 025E, which are controlled by the scrubber system, are the only CMPUs at this facility which use any Table 1 organic HAPs.]

(1) You must determine the sum of actual organic HAP emissions from all of your batch process vents within a CMPU subject to this subpart using process knowledge, engineering assessment, or test data. Emissions for a standard batch in a process may be used to represent actual emissions from each batch in that process. You must maintain records of the calculations. Calculations of annual emissions are not required if you meet the emission standards for batch process vents in Table 2 to this subpart.

(2) As an alternative to calculating actual emissions for each affected CMPU at your facility, you may elect to estimate emissions for each CMPU based on the emissions for the worst-case CMPU. The worst-case CMPU means the CMPU at the affected source with the highest organic HAP emissions per batch. The worst-case emissions per batch are used with the number of batches run for other affected CMPU. Process knowledge, engineering assessment, or test data may be used to identify the worst-case process. You must keep records of the information and procedures used to identify the worst-case process.

(3) If your current estimate is that emissions from batch process vents from a CMPU are less than 10,000 pounds per year (lb/yr), then you must keep a record of the number of batches of each process operated per month. Also, you must reevaluate your total emissions from batch process vents prior to making any process changes that affect emission calculations in paragraphs (a)(1) and (2) of this section. If projected emissions increase to 10,000 lb/yr or more, you must be in compliance options for batch process vents in Table 2 to this subpart upon initiating operation under the new operating conditions. You must maintain records documenting the results of all updated emissions calculations.

(4) As an alternative to determining the HAP emissions, you may elect to demonstrate that the amount of organic HAP used in the process is less than 10,000 lb/yr. You must keep monthly records of the organic HAP usage.

SECTION E. Source Group Restrictions.

(b) - (i) [Paragraphs (b) through (i) are printed under WORK PRACTICE REQUIREMENTS in this section of the permit.]

[Source: 74 FR 56041, Oct. 29, 2009, as amended at 77 FR 75757, Dec. 21, 2012]

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11501]

SUBPART VVVVVV - National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources

What are the notification, recordkeeping, and reporting requirements, and how may I assert an affirmative defense for violation of emission standards during malfunction?

(a) - (b) [Refer to RECORDKEEPING REQUIREMENTS in this section of the permit for paragraphs (a) and (b) of the regulation.]

(c) Recordkeeping. You must maintain files of all information required by this subpart for at least 5 years following the date of each occurrence according to the requirements in §63.10(b)(1). If you are subject, you must comply with the recordkeeping and reporting requirements of §63.10(b)(2)(iii) and (vi) through (xiv), and the applicable requirements specified in paragraphs (c)(1) through (8) of this section.

(1) For each CMPU subject to this subpart, you must keep the records specified in paragraphs (c)(1)(i) through (viii) of this section.

(i) Records of management practice inspections, repairs, and reasons for any delay of repair, as specified in §63.11495(a)(5).

(ii) Records of small heat exchange system inspections, demonstrations of indications of leaks that do not constitute leaks, repairs, and reasons for any delay in repair as specified in §63.11495(b).

(iii) [Not applicable to this facility.]

(iv) [Not applicable to this facility.]

(v) Records of metal HAP emission calculations as specified in §63.11496(f)(1) and (2). If total uncontrolled metal HAP process vent emissions from a CMPU subject to this subpart are estimated to be less than 400 lb/yr, also keep records of either the number of batches per month or operating hours, as specified in §63.11496(f)(2).

(vi) [Not applicable to this facility.]

(vii) Records of the date, time, and duration of each malfunction of operation of process equipment, control devices, recovery devices, or continuous monitoring systems used to comply with this subpart that causes a failure to meet a standard. The record must include a list of the affected sources or equipment, an estimate of the volume of each regulated pollutant emitted over the standard, and a description of the method used to estimate the emissions.

(viii) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.11495(d), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(2) [Not applicable to this facility.]

(3) For metal HAP process vents subject to Table 4 to this subpart, you must keep records specified in paragraphs (c)(3)(i) or (ii) of this section, as applicable.

(i) For a new source using a control device other than a baghouse and for any existing source, maintain a monitoring plan, as specified in §63.11496(f)(3)(i), and keep records of monitoring results, as specified in §63.11496(f)(3).

(ii) For a new source using a baghouse to control metal HAP emissions, keep a site-specific monitoring plan, as specified in §§63.11496(f)(4) and 63.11410(g), and keep records of bag leak detection systems, as specified in §§63.11496(f)(4) and 63.11410(g)(4).

SECTION E. Source Group Restrictions.

(4) - (6) [Not applicable to this facility.]

(7) You must keep a record of all transferred liquids that are reactive or resinous materials, as defined in §63.11502(b), and not included in the NOCS.

(8) [Not applicable to this facility.]

(d) - (e) [Refer to RECORDKEEPING REQUIREMENTS in this section of the permit for paragraphs (d) and (e) of the regulation.]

[74 FR 56041, Oct. 29, 2009, as amended at 77 FR 75758, Dec. 21, 2012]

V. REPORTING REQUIREMENTS.

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11501]

SUBPART VVVVVV - National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources

What are the notification, recordkeeping, and reporting requirements, and how may I assert an affirmative defense for violation of emission standards during malfunction?

[Note: This subsection refers to Table 4 of Subpart VVVVV. Table 4 is printed under 'Emission Restrictions' in this section of the permit. This subsection also refers to a 'monitoring plan' a.k.a. 'site specific monitoring plan'. A copy of BASF's Site Specific Monitoring Plan was requested by the Department and received on April 19, 2018. It is on file in PA DEP NWRO file: BASF Erie Plt/AQ/Facilities/CASE/25-000-00069.]

(a) General provisions. You must meet the requirements of the General Provisions in 40 CFR part 63, subpart A, as shown in Table 9 to this subpart. The General Provisions in other parts do not apply except when a requirement in an overlapping standard, which you determined is at least as stringent as subpart VVVVV and with which you have opted to comply, requires compliance with general provisions in another part.

(b) Notification of compliance status (NOCS). [The NOCS is a one-time requirement which has already been met with BASF's Erie Plant's submission to the EPA on May 17, 2013. A copy of the NOCS is on file in the PA DEP NWRO in the file AQ/Facilities/Case/25-000-00069.]

(c) [Refer to RECORDKEEPING REQUIREMENTS in this section of the permit for paragraph (c) of the regulation.]

(d) Semiannual Compliance Reports. You must submit semiannual compliance reports that contain the information specified in paragraphs (d)(1) through (7) of this section, as applicable. Reports are required only for semiannual periods during which you experienced any of the events described in paragraphs (d)(1) through (8) of this section.

(1) Deviations. You must clearly identify any deviation from the requirements of this subpart.

(2) Delay of repair for a large heat exchange system. [Paragraph (d)(2) of the regulation is not applicable to this facility.]

(3) Delay of leak repair. You must provide the following information for each delay of leak repair beyond 15 days for any process equipment, storage tank, surge control vessel, bottoms receiver, and each delay of leak repair beyond 45 days for any heat exchange system with a cooling water flow rate less than 8,000 gal/min: information on the date the leak was identified, the reason for the delay in repair, and the date the leak was repaired.

(4) Process change. You must report each process change that affects a compliance determination and submit a new certification of compliance with the applicable requirements in accordance with the procedures specified in paragraph (b) of this section.

(5) Data for the alternative standard. [Paragraph (d)(5) of the regulation is not applicable to this facility.]

(6) Overlapping rule requirements. [Paragraph (d)(6) of the regulation is not applicable to this facility.]

(7) Reactive and resinous materials. Report any transfer of liquids that are reactive or resinous materials, as defined in §63.11502(b), and not included in the NOCS.

SECTION E. Source Group Restrictions.

(8) Malfunctions. If a malfunction occurred during the reporting period, the report must include the number of instances of malfunctions that caused emissions in excess of a standard. For each malfunction that caused emissions in excess of a standard, the report must include a list of the affected sources or equipment, an estimate of the volume of each regulated pollutant emitted over the standard, and a description of the method used to estimate the emissions. The report must also include a description of actions you took during a malfunction of an affected source to minimize emissions in accordance with §63.11495(d), including actions taken to correct a malfunction.

(e) Affirmative defense for violation of emission standards during malfunction. In response to an action to enforce the standards set forth in §§63.11495 through 63.11499, you may assert an affirmative defense to a claim for civil penalties for violations of such standards that are caused by malfunction, as defined at 40 CFR 63.2. Appropriate penalties may be assessed if you fail to meet your burden of proving all of the requirements in the affirmative defense. The affirmative defense shall not be available for claims for injunctive relief.

(1) To establish the affirmative defense in any action to enforce such a standard, you must timely meet the notification requirements in paragraph (e)(2) of this section, and must prove by a preponderance of evidence that:

(i) The violation:

(A) Was caused by a sudden, infrequent, and unavoidable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner; and

(B) Could not have been prevented through careful planning, proper design, or better operation and maintenance practices; and

(C) Did not stem from any activity or event that could have been foreseen and avoided, or planned for; and

(D) Was not part of a recurring pattern indicative of inadequate design, operation, or maintenance; and

(ii) Repairs were made as expeditiously as possible when a violation occurred. Off-shift and overtime labor were used, to the extent practicable to make these repairs; and

(iii) The frequency, amount, and duration of the violation (including any bypass) were minimized to the maximum extent practicable; and

(iv) If the violation resulted from a bypass of control equipment or a process, then the bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and

(v) All possible steps were taken to minimize the impact of the violation on ambient air quality, the environment and human health; and

(vi) All emissions monitoring and control systems were kept in operation if at all possible, consistent with safety and good air pollution control practices; and

(vii) All of the actions in response to the violation were documented by properly signed, contemporaneous operating logs; and

(viii) At all times, the affected CMPE was operated in a manner consistent with good practices for minimizing emissions; and

(ix) A written root cause analysis has been prepared, the purpose of which is to determine, correct, and eliminate the primary causes of the malfunction and the violation resulting from the malfunction event at issue. The analysis must also specify, using best monitoring methods and engineering judgment, the amount of any emissions that were the result of the malfunction.

(2) Report. If you seek to assert an affirmative defense, you must submit a written report to the Administrator, with all necessary supporting documentation, that you have met the requirements set forth in paragraph (e)(1) of this section. This affirmative defense report must be included in the first periodic compliance report, deviation report, or excess emission

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report otherwise required after the initial occurrence of the violation of the relevant standard (which may be the end of any applicable averaging period). If such compliance report, deviation report, or excess emission report is due less than 45 days after the initial occurrence of the violation, the affirmative defense report may be included in the second compliance report, deviation report, or excess emission report due after the initial occurrence of the violation of the relevant standard.

[74 FR 56041, Oct. 29, 2009, as amended at 77 FR 75758, Dec. 21, 2012]

VI. WORK PRACTICE REQUIREMENTS.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11495]

SUBPART VVVVVV - National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources

What are the management practices and other requirements?

(a) Management practices. If you have a CMPU subject to this subpart, you must comply with paragraphs (a)(1) through (5) of this section.

(1) Each process vessel must be equipped with a cover or lid that must be closed at all times when it is in organic HAP service or metal HAP service, except for manual operations that require access, such as material addition and removal, inspection, sampling and cleaning. This requirement does not apply to process vessels containing only metal HAP that are in a liquid solution or other form that will not result in particulate emissions of metal HAP (e.g., metal HAP that is in ingot, paste, slurry, or moist pellet form or other form).

(2) You must use any of the methods listed in paragraphs (a)(2)(i) through (iv) of this section to control total organic HAP emissions from transfer of liquids containing Table 1 organic HAP to tank trucks or railcars. You are not required to comply with this paragraph (a)(2) if you have notified the Administrator in your initial notification that a material is reactive or resinous, and you will not be able to comply with any of the methods in paragraphs (a)(2)(i) through (iv) of this section for the transfer of such material.

(i) Use submerged loading or bottom loading.

(ii) Route emissions to a fuel gas system or process in accordance with §63.982(d) of subpart SS.

(iii) Vapor balance back to the storage tank or another storage tank connected by a common header.

(iv) Vent through a closed-vent system to a control device.

(3) You must conduct inspections of process vessels and equipment for each CMPU in organic HAP service or metal HAP service, as specified in paragraphs (a)(3)(i) through (v) of this section, to demonstrate compliance with paragraph (a)(1) of this section and to determine that the process vessels and equipment are sound and free of leaks. Alternatively, except when the subject CMPU contains metal HAP as particulate, inspections may be conducted while the subject process vessels and equipment are in VOC service, provided that leaks can be detected when in VOC service.

(i) Inspections must be conducted at least quarterly.

(ii) For these inspections, detection methods incorporating sight, sound, or smell are acceptable. Indications of a leak identified using such methods constitute a leak unless you demonstrate that the indications of a leak are due to a condition other than loss of HAP. If indications of a leak are determined not to be HAP in one quarterly monitoring period, you must still perform the inspection and demonstration in the next quarterly monitoring period.

(iii) As an alternative to conducting inspections, as specified in paragraph (a)(3)(ii) of this section, you may use Method 21 of 40 CFR part 60, appendix A-7, with a leak definition of 500 ppmv to detect leaks. You may also use Method 21 with a leak definition of 500 ppmv to determine if indications of a leak identified during an inspection conducted in accordance with paragraph (a)(3)(ii) of this section are due to a condition other than loss of HAP. The procedures in this paragraph (a)(3)(iii) may not be used as an alternative to the inspection required by paragraph (a)(3)(ii) of this section for process vessels that contain metal HAP as particulate.

(iv) Inspections must be conducted while the subject CMPU is operating.

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(v) No inspection is required in a calendar quarter during which the subject CMPU does not operate for the entire calendar quarter and is not in organic HAP service or metal HAP service. If the CMPU operates at all during a calendar quarter, an inspection is required.

(4) You must repair any leak within 15 calendar days after detection of the leak, or document the reason for any delay of repair. For the purposes of this paragraph (a)(4), a leak will be considered "repaired" if a condition specified in paragraph (a)(4)(i), (ii), or (iii) of this section is met.

(i) The visual, audible, olfactory, or other indications of a leak to the atmosphere have been eliminated, or

(ii) No bubbles are observed at potential leak sites during a leak check using soap solution, or

(iii) The system will hold a test pressure.

(5) You must keep records of the dates and results of each inspection event, the dates of equipment repairs, and, if applicable, the reasons for any delay in repair.

(b) Small heat exchange systems. For each heat exchange system subject to this subpart with a cooling water flow rate less than 8,000 gallons per minute (gal/min) and not meeting one or more of the conditions in §63.104(a), you must comply with paragraphs (b)(1) through (3) of this section, or as an alternative, you may comply with any one of the requirements in Item 1.a or 1.b of Table 8 to this subpart.

(1) You must develop and operate in accordance with a heat exchange system inspection plan. The plan must describe the inspections to be performed that will provide evidence of hydrocarbons in the cooling water. Among other things, inspections may include checks for visible floating hydrocarbon on the water, hydrocarbon odor, discolored water, and/or chemical addition rates. You must conduct inspections at least once per quarter, even if the previous inspection determined that the indications of a leak did not constitute a leak as defined by §63.104(b)(6).

(2) You must perform repairs to eliminate the leak and any indications of a leak or demonstrate that the HAP concentration in the cooling water does not constitute a leak, as defined by §63.104(b)(6), within 45 calendar days after indications of the leak are identified, or you must document the reason for any delay of repair in your next semiannual compliance report.

(3) You must keep records of the dates and results of each inspection, documentation of any demonstrations that indications of a leak do not constitute a leak, the dates of leak repairs, and, if applicable, the reasons for any delay in repair.

(c) Startup, shutdown and malfunction. Startup, shutdown, and malfunction (SSM) provisions in subparts that are referenced in paragraphs (a) and (b) of this section do not apply.

(d) General duty. At all times, you must operate and maintain any affected CMPU, 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 CMPU.

[74 FR 56041, Oct. 29, 2009, as amended at 77 FR 75756, Dec. 21, 2012]

008 [40 CFR Part 63 NESHAHS for Source Categories §40 CFR 63.11496]

SUBPART VVVVVV - National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources

What are the standards and compliance requirements for process vents?

[Note: This subsection refers to Table 4 of Subpart VVVVV. Table 4 is printed under 'Emission Restrictions' in this section of the permit. This subsection also refers to a 'monitoring plan' a.k.a. 'site specific monitoring plan'. A copy of BASF's Site Specific Monitoring Plan was requested by the Department and received on April 19, 2018. It is on file in PA DEP NWRO file: BASF Erie Plt/AQ/Facilities/CASE/25-000-00069.]

(a) [Paragraph (a) is printed under RECORDKEEPING REQUIREMENTS in this section of the permit.]

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(b) - (e) [Paragraphs (b) through (e) of the regulation are not applicable to this plant.]

(f) Emissions from metal HAP process vents. You must comply with the requirements in paragraphs (f)(1) and (2) of this section for metal HAP emissions from each CMPU using Table 1 metal HAP. If the collective uncontrolled metal HAP emissions from all metal HAP process vents from a CMPU are equal to or greater than 400 lb/yr, then you must also comply with the emission limits and other requirements in Table 4 to this subpart and in paragraph (f)(3), (4), or (5) of this section. The requirements of this paragraph (f) do not apply to metal HAP process vents from CMPU containing only metal HAP that are in a liquid solution or other form that will not result in particulate emissions of metal HAP (e.g., metal HAP that is in ingot, paste, slurry, or moist pellet form or other form).

(1) You must determine the sum of metal HAP emissions from all metal HAP process vents within a CMPU subject to this subpart, except you are not required to determine the annual emissions if you control the metal HAP process vents within a CMPU in accordance with Table 4 to this subpart or if you determine your total metal HAP usage in the process unit is less than 400 lb/yr. To determine the mass emission rate you may use process knowledge, engineering assessment, or test data. You must keep records of the emissions calculations.

(2) If your current estimate is that total uncontrolled metal HAP emissions from a CMPU subject to this subpart are less than 400 lb/yr, then you must keep records of either the number of batches operated per month (batch vents) or the process operating hours (continuous vents). Also, you must reevaluate your total emissions before you make any process or operational change that affects emissions of metal HAP. If projected emissions increase to 400 lb/yr or more, then you must be in compliance with one of the options for metal HAP process vents in Table 4 to this subpart upon initiating operation under the new operating conditions. You must keep records of all recalculated emissions determinations.

(3) If you have an existing source subject to the HAP metals emission limits specified in Table 4 to this subpart, you must comply with the initial compliance and monitoring requirements in paragraphs (f)(3)(i) through (iii) of this section. You must keep records of monitoring results to demonstrate continuous compliance.

(i) You must prepare a monitoring plan containing the information in paragraphs (f)(3)(i)(A) through (E) of this section. The plan must be maintained on-site and be available on request. You must operate and maintain the control device according to a site-specific monitoring plan at all times.

(A) A description of the device;

(B) Results of a performance test or engineering assessment conducted in accordance with paragraph (f)(3)(ii) of this section verifying the performance of the device for reducing HAP metals or particulate matter (PM) to the levels required by this subpart;

(C) Operation and maintenance plan for the control device (including a preventative maintenance schedule consistent with the manufacturer's instructions for routine and long-term maintenance) and continuous monitoring system (CMS).

(D) A list of operating parameters that will be monitored to maintain continuous compliance with the applicable emissions limits; and

(E) Operating parameter limits based on either monitoring data collected during the performance test or established in the engineering assessment.

(ii) You must conduct a performance test or an engineering assessment for each CMPU subject to a HAP metals emissions limit in Table 4 to this subpart and report the results in your Notification of Compliance Status (NOCS). Each performance test or engineering assessment must be conducted under representative operating conditions, and sampling for each performance test must be conducted at both the inlet and outlet of the control device. Upon request, you shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests. If you own or operate an existing affected source, you are not required to conduct a performance test if a prior performance test was conducted within the 5 years prior to the effective date using the same methods specified in paragraph (f)(3)(iii) of this section, and, either no process changes have been made since the test, or, if you can demonstrate that the results of the performance test, with or without adjustments, reliably demonstrate compliance despite process changes.

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(iii) If you elect to conduct a performance test, it must be conducted according to requirements in §63.11410(j)(1). As an alternative to conducting a performance test using Method 5 or 5D to determine the concentration of PM, you may use Method 29 in 40 CFR part 60, appendix A-8 to determine the concentration of HAP metals. You have demonstrated initial compliance if the overall reduction of either HAP metals or total PM is equal to or greater than 95 percent.

(4) If you have a new source using a baghouse as a control device, you must install, operate, and maintain a bag leak detection system on all baghouses used to comply with the HAP metals emissions limit in Table 4 to this subpart. You must comply with the testing, monitoring, and recordkeeping requirements in §63.11410(g), (i), and (j)(1), except you are not required to submit the monitoring plan required by §63.11410(g)(2) for approval.

(5) If you have a new source using a control device other than a baghouse to comply with the HAP metals emission limits in Table 4 to this subpart, you must comply with the initial compliance and monitoring requirements in paragraphs (f)(3)(i) through (iii) of this section.

(g) - (h) [Paragraphs (g) and (h) of the regulation are not applicable to this plant.]

(i) Startup, shutdown, and malfunction (SSM). References to SSM provisions in subparts that are referenced in paragraphs (a) through (h) of this section or Tables 2 through 5 to this subpart do not apply.

[Source: 74 FR 56041, Oct. 29, 2009, as amended at 77 FR 75757, Dec. 21, 2012]

VII. ADDITIONAL REQUIREMENTS.

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.101]

Subpart F—National Emission Standards for Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry.

Definitions.

[The following definition from §63.101 in Subpart F is incorporated into the operating permit as it is referenced by the definition of 'continuous process vent' in §63.11502 in Subpart VVVV.]

Process vent means the point of discharge to the atmosphere (or the point of entry into a control device, if any) of a gas stream if the gas stream has the characteristics specified in §63.107(b) through (h), or meets the criteria specified in §63.107(i). [Text from the regulation which is not applicable to this facility is omitted from this paragraph per §63.11502.]

[Source: 59 FR 19454, Apr. 22, 1994, as amended at 60 FR 18024, Apr. 10, 1995; 60 FR 63626, Dec. 12, 1995; 62 FR 2731, Jan. 17, 1997; 65 FR 26497, May 8, 2000; 66 FR 6928, Jan. 22, 2001]

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[From 40 CFR 63.107(b) through (i) as referenced by 63.101 as referenced by 63.11502 of Subpart VVVV.]

(b) Some, or all, of the gas stream originates as a continuous flow from an air oxidation reactor, distillation unit, or reactor during operation of the chemical manufacturing process unit.

(c) The discharge to the atmosphere (with or without passing through a control device) meets at least one of the conditions specified in paragraphs (c)(1) through (3) of this section.

(1) Is directly from an air oxidation reactor, distillation unit, or reactor; or

(2) Is from an air oxidation reactor, distillation unit, or reactor after passing solely (i.e., without passing through any other unit operation for a process purpose) through one or more recovery devices within the chemical manufacturing process unit; or

(3) Is from a device recovering only mechanical energy from a gas stream that comes either directly from an air oxidation reactor, distillation unit, or reactor, or from an air oxidation reactor, distillation unit, or reactor after passing solely (i.e., without passing through any other unit operation for a process purpose) through one or more recovery devices within the chemical manufacturing process unit.

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- (d) The gas stream contains greater than 0.005 weight percent total organic HAP at the point of discharge to the atmosphere (or at the point of entry into a control device, if any).
- (e) The air oxidation reactor, distillation unit, or reactor is part of a chemical manufacturing process unit that meets the criteria of §63.100(b). [Substitute §63.11494(a) & (b) for §63.100(b) for purpose of compliance with subpart VVVVV.]
- (f) The gas stream is in the gas phase from the point of origin at the air oxidation reactor, distillation unit, or reactor to the point of discharge to the atmosphere (or to the point of entry into a control device, if any).
- (g) The gas stream is discharged to the atmosphere either on-site, off-site, or both.
- (h) The gas stream is not any of the items identified in paragraphs (h)(1) through (9) of this section.
- (1) A relief valve discharge.
 - (2) A leak from equipment subject to subpart H of this part. [Substitute §63.11495(a) for Subpart H for purpose of subpart VVVVV.]
 - (3) A gas stream going to a fuel gas system as defined in §63.101.
 - (4) A gas stream exiting a control device used to comply with §63.113.
 - (5) A gas stream transferred to other processes (on-site or off-site) for reaction or other use in another process (i.e., for chemical value as a product, isolated intermediate, byproduct, or coproduct, or for heat value).
 - (6) A gas stream transferred for fuel value (i.e., net positive heating value), use, reuse, or for sale for fuel value, use, or reuse.
 - (7) A storage vessel vent or transfer operation vent subject to §63.119 or §63.126. [Substitute §63.126 and disregard §63.126 for purpose of subpart VVVVV.]
 - (8) [Not applicable to this facility according to 63.11502.]
 - (9) A gas stream exiting an analyzer.
- (i) The gas stream would meet the characteristics specified in paragraphs (b) through (g) of this section, but, for purposes of avoiding applicability, has been deliberately interrupted, temporarily liquefied, routed through any item of equipment for no process purpose, or disposed of in a flare that does not meet the criteria in §63.11(b), or an incinerator that does not reduce emissions of organic HAP by 98 percent or to a concentration of 20 parts per million by volume, whichever is less stringent.

[Source: 66 FR 6928, Jan. 22, 2001]

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11494]

SUBPART VVVVVV - National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources

What are the applicability requirements and compliance dates?

(a) Except as specified in paragraph (c) of this section, you are subject to this subpart if you own or operate a chemical manufacturing process unit (CMPU) that meets the conditions specified in paragraphs (a)(1) and (2) of this section.

- (1) The CMPU is located at an area source of hazardous air pollutant (HAP) emissions.
- (2) HAP listed in Table 1 to this subpart (Table 1 HAP) are present in the CMPU, as specified in paragraph (a)(2)(i), (ii), (iii), or (iv) of this section.
 - (i) The CMPU uses as feedstock, any material that contains quinoline, manganese, and/or trivalent chromium at an individual concentration greater than 1.0 percent by weight, or any other Table 1 HAP at an individual concentration greater than 0.1 percent by weight. To determine the Table 1 HAP content of feedstocks, you may rely on formulation data provided

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by the manufacturer or supplier, such as the Material Safety Data Sheet (MSDS) for the material. If the concentration in an MSDS is presented as a range, use the upper bound of the range.

(ii) Quinoline is generated as byproduct and is present in the CMPU in any liquid stream (process or waste) at a concentration greater than 1.0 percent by weight.

(iii) Hydrazine and/or Table 1 organic HAP other than quinoline are generated as byproduct and are present in the CMPU in any liquid stream (process or waste), continuous process vent, or batch process vent at an individual concentration greater than 0.1 percent by weight.

(iv) Hydrazine or any Table 1 HAP is produced as a product of the CMPU.

(b) A CMPU includes all process vessels, equipment, and activities necessary to operate a chemical manufacturing process that produces a material or a family of materials described by North American Industry Classification System (NAICS) code 325. A CMPU consists of one or more unit operations and any associated recovery devices. A CMPU also includes each storage tank, transfer operation, surge control vessel, and bottoms receiver associated with the production of such NAICS code 325 materials.

(c) This subpart does not apply to the operations specified in paragraphs (c)(1) through (6) of this section.

(1) [None of the categories of paragraph (c)(1) apply to BASF's Erie Plant.]

(2) Production of the following chemical manufacturing materials described in NAICS code 325:

(i) - (ii) [Not applicable to this plant.]

(iii) Fabricating operations (such as spinning or compressing a solid polymer into its end use); compounding operations (in which blending, melting, and resolidification of a solid polymer product occurs for the purpose of incorporating additives, colorants, or stabilizers); and extrusion and drawing operations (converting an already produced solid polymer into a different shape by melting or mixing the polymer and then forcing it or pulling it through an orifice to create an extruded product). An operation is subject if it involves processing with Table 1 HAP solvent or if an intended purpose of the operation is to remove residual Table 1 HAP monomer.

(iv) [Not applicable to this plant.]

(3) Research and development facilities, as defined in CAA section 112(c)(7).

(4) Quality assurance/quality control laboratories.

(5) Ancillary activities, as defined in §63.11502(b).

(6) Metal HAP in structures or existing as articles as defined in 40 CFR 372.3.

[definition from 40 CFR §372.3: Article means a manufactured item (1) Which is formed to a specific shape or design during manufacture; (2) which has end use functions dependent in whole or in part upon its shape or design during end use; and (3) which does not release a toxic chemical under normal conditions of processing or use of that item at the facility or establishments.]

(d) This subpart applies to each new or existing affected source. The affected source is the facility-wide collection of CMPUs and each heat exchange system and wastewater system associated with a CMPU that meets the criteria specified in paragraphs (a) and (b) of this section. A CMPU using only Table 1 organic HAP is required to control only total CAA section 112(b) organic HAP. A CMPU using only Table 1 metal HAP is required to control only total CAA section 112(b) metal HAP in accordance with §63.11495 and, if applicable, §63.11496(f).

(1) An affected source is an existing source if you commenced construction or reconstruction of the affected source before October 6, 2008.

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(2) An affected source is a new source if you commenced construction or reconstruction of the affected source on or after October 6, 2008.

(e) Any area source that installed a federally-enforceable control device on an affected CMPU is required to obtain a permit under 40 CFR part 70 or 40 CFR part 71 if the control device on the affected CMPU is necessary to maintain the source's emissions at area source levels. For new and existing sources subject to this rule on December 21, 2012 and subject to title V as a result of this rule, a complete title V permit application must be submitted no later than December 21, 2013. New and existing sources that become subject to this rule after December 21, 2012 must submit a complete title V permit application no later than 12 months after becoming subject to this rule if the source is subject to title V as a result of this rule. Otherwise, you are exempt from the obligation to obtain a permit under 40 CFR part 70 or 40 CFR part 71, provided you are not otherwise required by law to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a). Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart.

(f) If you own or operate an existing affected source, you must achieve compliance with the applicable provisions in this subpart no later than March 21, 2013.

(g) If you start up a new affected source on or before October 29, 2009, you must achieve compliance with the applicable provisions of this subpart no later than October 29, 2009.

(h) If you start up a new affected source after October 29, 2009, you must achieve compliance with the provisions in this subpart upon startup of your affected source.

[74 FR 56041, Oct. 29, 2009, as amended at 77 FR 75756, Dec. 21, 2012]

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.11502]

SUBPART VVVVVV - National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources

What definitions apply to this subpart?

(a) The following terms used in this subpart have the meaning given them in the CAA, §63.2, subpart SS (§63.981), subpart WW (§63.1061), 40 CFR 60.111b, subpart F (§63.101), subpart G (§63.111), subpart FFFF (§63.2550), as specified after each term:

- Administrator (§63.2)
- Article (40 CFR 372.3)
- Batch operation (§63.2550)
- Boiler (§63.111)
- Bottoms receiver (§63.2550)
- CAA (§63.2)
- Closed-vent system (§63.981)
- Combustion device (§63.111)
- Commenced (§63.2)
- Compliance date (§63.2)
- Container (§63.111)
- Continuous monitoring system (§63.2)
- Continuous operation (§63.2550)
- Control device (§63.111)
- Distillation unit (§63.111)
- Emission standard (§63.2)
- EPA (§63.2)
- Fill or filling (§63.111)
- Floating roof (§63.1061)
- Fuel gas system (§63.981)
- Halogen atoms (§63.2550)
- Halogenated vent stream (§63.2550)
- Halogens and hydrogen halides (§63.2550)
- Hazardous air pollutant (§63.2)
- Heat exchange system (§63.101)
- Incinerator (§63.111)

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Isolated intermediate (§63.2550)
 Maintenance wastewater (§63.2550)
 Major source (§63.2)
 Maximum true vapor pressure (§63.111)
 Oil-water separator or organic-water separator (§63.111)
 Operating permit (§63.101)
 Owner or operator (§63.2)
 Performance test (§63.2)
 Permitting authority (§63.2)
 Process condenser (§63.2550)
 Process heater (§63.111)
 Process tank (§63.2550)
 Process wastewater (§63.101)
 Reactor (§63.111)
 Responsible official (§63.2)
 State (§63.2)
 Supplemental gases (§63.2550)
 Surge control vessel (§63.2550)
 Test method (§63.2)
 Unit operation (§63.101)

(b) All other terms used in this subpart shall have the meaning given them in this section. If a term is defined in the CAA, §63.2, subpart SS (§63.981), subpart WW (§63.1061), 40 CFR 60.111b, subpart F (§63.101), subpart G (§63.111), or subpart FFFF (§63.2550), and in this section, it shall have the meaning given in this section for purposes of this subpart.

Affirmative defense means, in the context of an enforcement proceeding, a response or defense put forward by a defendant, regarding which the defendant has the burden of proof, and the merits of which are independently and objectively evaluated in a judicial or administrative proceeding.

Ancillary activities means boilers, incinerators, and process heaters not used to comply with the emission standards in §§63.11495 through 63.11500, chillers and other refrigeration systems, and other equipment and activities that are not directly involved (i.e., they operate within a closed system and materials are not combined with process fluids) in the processing of raw materials or the manufacturing of a product or intermediates used in the production of the product.

Batch process vent means a vent from a CMPU or vents from multiple CMPUs within a process that are manifolded together into a common header, through which a HAP-containing gas stream is, or has the potential to be, released to the atmosphere. Batch process vents include vents from batch operations and vents with intermittent flow from continuous operations that are not combined with any stream that originated as a continuous gas stream from the same continuous process. Examples of batch process vents include, but are not limited to, vents on condensers used for product recovery, reactors, filters, centrifuges, and process tanks. The following are not batch process vents for the purposes of this subpart:

- (1) Continuous process vents;
- (2) Bottoms receivers;
- (3) Surge control vessels;
- (4) Gaseous streams routed to a fuel gas system(s);
- (5) A gas stream routed to other processes for reaction or other use in another process (i.e., for chemical value as a product, isolated intermediate, byproduct, or coproduct, or for heat value).
- (6) Vents on storage tanks or wastewater systems;
- (7) Drums, pails, and totes; and

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(8) Emission streams from emission episodes that are undiluted and uncontrolled containing less than 50 ppmv HAP are not part of any batch process vent. The HAP concentration may be determined using any of the following: process knowledge, an engineering assessment, or test data.

Byproduct means a chemical (liquid, gas, or solid) that is produced coincidentally during the production of the product.

Chemical manufacturing process means all equipment which collectively functions to produce a product or isolated intermediate. A process includes, but is not limited to any, all, or a combination of reaction, recovery, separation, purification, or other activity, operation, manufacture, or treatment which are used to produce a product or isolated intermediate. A process is also defined by the following:

- (1) All cleaning operations;
- (2) Each nondedicated solvent recovery operation is considered a single process;
- (3) Each nondedicated formulation operation is considered a single process;
- (4) Quality assurance/quality control laboratories are not considered part of any process;
- (5) Ancillary activities are not considered a process or part of any process; and

(6) The end of a process that produces a solid material is either up to and including the dryer or extruder, or for a polymer production process without a dryer or extruder, it is up to and including the die plate or solid-state reactor, except in two cases. If the dryer, extruder, die plate, or solid-state reactor is followed by an operation that is designed and operated to remove HAP solvent or residual monomer from the solid, then the solvent removal operation is the last step in the process. If the dried solid is diluted or mixed with a HAP-based solvent, then the solvent removal operation is the last step in the process.

Continuous process vent means a "process vent" as defined in §63.101 in subpart F of this part, except:

- (1) The reference in §63.107(e) to a chemical manufacturing process unit that meets the criteria of §63.100(b) means a CMPU that meets the criteria of §63.11494(a) and (b);
- (2) The reference in §63.107(h)(2) to subpart H means §63.11495(a) for the purposes of this subpart;
- (3) The reference in §63.107(h)(4) to §63.113 means Tables 2 and 3 to this subpart;
- (4) The reference in §63.107(h)(7) to §63.119 means Table 5 to this subpart, and the reference to §63.126 does not apply for the purposes of this subpart;
- (5) The second sentence in the definition of "process vent" in §63.101 does not apply for the purposes of this subpart;
- (6) The references to an "air oxidation reactor, distillation unit, or reactor" in §63.107 means any continuous operation for the purposes of this subpart;
- (7) Section §63.107(h)(8) does not apply for the purposes of this subpart; and
- (8) A separate determination is required for the emissions from each CMPU, even if emission streams from two or more CMPU are combined prior to discharge to the atmosphere or to a control device.

Co-Product means a chemical that is produced during the production of another chemical, both for their intended production.

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source fails to meet any requirement or obligation established by this subpart, including, but not limited to any emissions limitation or management practice; or fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit.

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Engineering assessment means, but is not limited to, the following:

- (1) Previous test results provided the tests are representative of current operating practices at the process unit.
- (2) Bench-scale or pilot-scale test data representative of the process under representative operating conditions.
- (3) Maximum flow rate, TOC emission rate, organic HAP emission rate, metal HAP emission rate, or net heating value limit specified or implied within a permit limit applicable to the process vent.
- (4) Design analysis based on accepted chemical engineering principles, measurable process parameters, or physical or chemical laws or properties. Examples of analytical methods include, but are not limited to:
 - (i) Use of material balances based on process stoichiometry to estimate maximum organic HAP or metal HAP concentrations;
 - (ii) Estimation of maximum flow rate based on physical equipment design such as pump or blower capacities;
 - (iii) Estimation of TOC, organic HAP, or metal HAP concentrations based on saturation conditions; or
 - (iv) Estimation of maximum expected net heating value based on the vent stream concentration of each organic compound or, alternatively, as if all TOC in the vent stream were the compound with the highest heating value.
- (5) All data, assumptions, and procedures used in the engineering assessment shall be documented.

Equipment means each pump, compressor, agitator, pressure relief device, sampling connection system, open-ended valve or line, valve, connector, and instrumentation system in or associated with a CMPU.

Family of materials means a grouping of materials that have the same basic composition or the same basic end use or functionality; are produced using the same basic feedstocks, the same manufacturing equipment configuration and in the same sequence of steps; and whose production results in emissions of the same Table 1 HAP at approximately the same rate per pound of product produced. Examples of families of materials include multiple grades of same product or different variations of a product (e.g., blue, black and red resins).

Feedstock means any raw material, reactant, solvent, additive, or other material introduced to a CMPU.

Hazardous waste treatment, as used in the wastewater requirements, means treatment in any of the following units:

- (1) A hazardous waste incinerator for which you have been issued a final permit under 40 CFR part 270 and comply with the requirements of 40 CFR part 264, subpart O, for which you have certified compliance with the interim status requirements of 40 CFR part 265, subpart O, or for which you have submitted a Notification of Compliance under 40 CFR 63.1207(j) and comply with the requirements of 40 CFR part 63, subpart EEE at all times (including times when non-hazardous waste is being burned);
- (2) A process heater or boiler for which you have been issued a final permit under 40 CFR part 270 and comply with the requirements of 40 CFR part 266, subpart H, for which you have certified compliance with the interim status requirements of 40 CFR part 266, subpart H, or for which you have submitted a Notification of Compliance under 40 CFR 63.1207(j) and comply with the requirements of 40 CFR part 63, subpart EEE at all times (including times when non-hazardous waste is being burned); or
- (3) An underground injection well for which you have been issued a final permit under 40 CFR part 270 or 40 CFR part 144 and comply with the requirements of 40 CFR part 122.

In metal HAP service means that a process vessel or piece of equipment either contains or contacts a feedstock, byproduct, or product that contains metal HAP. A process vessel is no longer in metal HAP service after the vessel has been emptied to the extent practicable (i.e., a vessel with liquid left on process vessel walls or as bottom clingage, but not in pools, due to floor irregularity, is considered completely empty) and any cleaning has been completed.

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In organic HAP service means that a process vessel or piece of equipment either contains or contacts a feedstock, byproduct, or product that contains an organic HAP, excluding any organic HAP used in manual cleaning activities. A process vessel is no longer in organic HAP service after the vessel has been emptied to the extent practicable (i.e., a vessel with liquid left on process vessel walls or as bottom clingage, but not in pools, due to floor irregularity, is considered completely empty) and any cleaning has been completed.

In VOC service means that a process vessel or piece of equipment either contains or contacts a fluid that contains VOC.

Metal HAP means the compounds containing metals listed as HAP in section 112(b) of the CAA.

Metal HAP process vent means the point of discharge to the atmosphere (or inlet to a control device, if any) of a metal HAP-containing gas stream from any CMPU at an affected source containing at least 50 ppmv metal HAP. The metal HAP concentration may be determined using any of the following: process knowledge, an engineering assessment, or test data.

Organic HAP means any organic HAP listed in section 112(b) of the CAA. For the purposes of requirements in this subpart VVVVV, hydrazine is to be considered an organic HAP.

Point of determination means "point of determination" as defined in §63.111 in subpart G of this part, except:

- (1) The reference to Table 8 or Table 9 compounds means Table 9 (subpart G) or Table 7 (subpart VVVVV) compounds;
- (2) The reference to "as determined in §63.144 of this subpart" does not apply for the purposes of this subpart; and
- (3) The point of determination is made at the point where the stream exits the CMPU. If a recovery device is used, the point of determination is after the last recovery device.

Process vessel means each vessel, except hand-held containers, used in the processing of raw materials to chemical products. Examples include, but are not limited to reactors, distillation units, centrifuges, mixing vessels, and process tanks.

Product means a compound or chemical which is manufactured as the intended product of the CMPU. Products include co-products. By-products, impurities, wastes, and trace contaminants are not considered products.

Reactive material means energetics, organic peroxides, and unstable chemicals such as chemicals that react violently with water and chemicals that vigorously polymerize, decompose, or become self-reactive under conditions of pressure or temperature.

Recovery device means an individual unit of equipment capable of and normally used for the purpose of recovering organic chemicals or metal-containing chemicals for fuel value (i.e., net positive heating value), use, reuse, or for sale for fuel value, use, or reuse. Examples of equipment that may be recovery devices include absorbers, carbon adsorbers, condensers, oil-water separators or organic-water separators, or organic removal devices such as decanters, strippers, or thin-film evaporation units.

Resinous material means a viscous, high-boiling point material resembling pitch or tar, such as plastic resin, that sticks to or hardens in the fill pipe under normal transfer conditions.

Shutdown, for a unit operation with a continuous process vent, means the cessation of the unit operation for any purpose. Shutdown begins with the initiation of steps as described in a written standard operating procedures (SOP) or shutdown plan to cease normal/stable operation (e.g., reducing or immediately stopping feed).

Startup, for a unit operation with a continuous process vent, means the setting in operation of the unit for any purpose. The period of startup ends upon completion of the transient, non-equilibrium step at the time operating conditions reach steady state for operating parameters such as temperature, pressure, composition, feed rate, and production rate. Periods of startup described by SOP manuals at the affected source may be used to determine the period of startup.

Storage tank means a tank or other vessel that is used to store liquids that contain organic HAP and that are part of a CMPU

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subject to this subpart VVVV. The following are not considered storage tanks for the purposes of this subpart:

- (1) Vessels permanently attached to motor vehicles such as trucks, railcars, barges, or ships;
- (2) Pressure vessels designed to operate in excess of 204.9 kilopascals (kPa) and without emissions to the atmosphere;
- (3) Process tanks;
- (4) Tanks storing organic liquids containing HAP only as impurities;
- (5) Surge control vessels;
- (6) Bottoms receivers; and
- (7) Wastewater storage tanks.

Transfer operations means all product loading into tank trucks and rail cars of liquid containing organic HAP from a transfer rack. Transfer operations do not include the loading to other types of containers such as cans, drums, and totes.

Transfer rack means the system used to load organic liquids into tank trucks and railcars at a single geographic site. It includes all loading arms, pumps, meters, shutoff valves, relief valves, and other piping and equipment necessary for the transfer operation. Transfer equipment that are physically separate (i.e., do not share common piping, valves, and other equipment) are considered to be separate transfer racks.

Uncontrolled emissions means organic HAP process vent emissions or metal HAP process vent emissions, as applicable, at the outlet of the last recovery device, if any, and prior to any control device. In the absence of both recovery devices and control devices, uncontrolled emissions are the emissions discharged to the atmosphere.

Wastewater means water that is discarded from a C MPU or control device and that contains at least 5 ppmw of any HAP listed in Table 9 to 40 CFR part 63, subpart G and has an annual average flow rate of 0.02 liters per minute. Wastewater means both process wastewater and maintenance wastewater that is discarded from a C MPU or control device. The following are not considered wastewater for the purposes of this subpart:

- (1) Stormwater from segregated sewers;
- (2) Water from fire-fighting and deluge systems, including testing of such systems;
- (3) Spills;
- (4) Water from safety showers;
- (5) Samples of a size not greater than reasonably necessary for the method of analysis that is used;
- (6) Equipment leaks;
- (7) Wastewater drips from procedures such as disconnecting hoses after cleaning lines; and
- (8) Noncontact cooling water.

Wastewater stream means a single point discharge of wastewater from a C MPU or control device.

Wastewater treatment means chemical, biological, and mechanical procedures applied to wastewater to remove or reduce HAP or other chemical constituents.

[74 FR 56041, Oct. 29, 2009, as amended at 77 FR 75759, Dec. 21, 2012]

SECTION E. Source Group Restrictions.

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Part 63 Subpart VVVVVV Table 1]

SUBPART VVVVVV - National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources

Hazardous Air Pollutants Used To Determine Applicability of Chemical Manufacturing Operations

As required in §63.11494(a), chemical manufacturing operations that process, use, or produce the HAP shown in the following table are subject to subpart VVVVV.

Type of HAP, Chemical name & CAS No.

1. Organic compounds
 - a. 1,3-butadiene 106990
 - b. 1,3-dichloropropene 542756
 - c. Acetaldehyde 75070
 - d. Chloroform 67663
 - e. Ethylene dichloride 107062
 - f. Hexachlorobenzene 118741
 - g. Methylene chloride 75092
 - h. Quinoline 91225
2. Metal compounds
 - a. Arsenic compounds
 - b. Cadmium compounds
 - c. Chromium compounds
 - d. Lead compounds
 - e. Manganese compounds
 - f. Nickel compounds
3. Others
 - a. Hydrazine 302012

[Source: 74 FR 56041, Oct. 29, 2009]

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Part 63 Subpart VVVVVV Table 9]

SUBPART VVVVVV - National Emission Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources

Applicability of General Provisions to Subpart VVVVVV

Refer to regulation for Table 9 of 40 CFR Part 63 Subpart VVVVV, Applicability of General Provisions to Subpart VVVVV.

***** Permit Shield in Effect. *****

SECTION E. Source Group Restrictions.

Group Name: 09 - EMERGENCY ENGINES

Group Description: State Standards & 40 CFR Part 63 Subpart ZZZZ for Emergency Use Natural Gas Fueled Engine

Sources included in this group

ID	Name
101	EMERGENCY GENERATOR #1, 100KW NAT GAS (OUTSIDE BOILER HOUSE)
102	EMERGENCY GENERATOR #2, 100KW NAT GAS (OUTSIDE BUILDING 300)
120	EMERGENCY GENERATOR #3, 70 KW NAT GAS (INSIDE BUILDING 300)

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

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

002 [25 Pa. Code §123.21]

General

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

Operation Hours Restriction(s).

003 [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) [Paragraph 63.6640(a) is printed under WORK PRACTICE REQUIREMENTS in this section of permit.]

(b) - (d) [Paragraphs 63.6640(b) through (d) are not applicable to this source.]

(e) [Paragraph 63.6640(e) is printed under REPORTING REQUIREMENTS in this section of permit.]

(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 nonemergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (4) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

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

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

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

(ii)-(iii) [Paragraphs 63.6640(f)(2)(ii)-(iii) were vacated on May 11, 2015.]

SECTION E. Source Group Restrictions.

(3) [Paragraph 63.6640(f)(3) is not applicable to this source.]

(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) [Paragraphs 63.6640(f)(4)(i)-(ii) are not applicable to this source.]

[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 6700, Jan. 30, 2013]

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

004 [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) - (c) [Paragraphs (a) through (c) of 40 CFR §63.6655 are not applicable to this source.]

(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) [Not applicable.]

(2) An existing stationary emergency RICE.

(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) [Paragraph 63.6655(f)(1) is not applicable to this source.]

(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.

SECTION E. Source Group Restrictions.

[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]

005 [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]

From 63.10(b)(1):

(b) General recordkeeping requirements. (1) The owner or operator of an affected source subject to the provisions of this part shall maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche.

[59 FR 12430, Mar. 16, 1994, as amended at 64 FR 7468, Feb. 12, 1999; 67 FR 16604, Apr. 5, 2002; 68 FR 32601, May 30, 2003; 69 FR 21752, Apr. 22, 2004; 71 FR 20455, Apr. 20, 2006]

V. REPORTING REQUIREMENTS.

006 [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) [Paragraph 63.6640(a) is printed under WORK PRACTICE REQUIREMENTS in this section of permit.]
- (b) You must report each instance in which you did not meet each emission limitation or operating limitation in 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. [Reference to Tables 1a and 1b, Tables 2a and 2b, Table 2c and references to performance testing in the regulation, which are not applicable to this source, are omitted from this paragraph.]
- (c) – (d) [Paragraphs 63.6640(c) and (d) are not applicable to this source.]
- (e) You must report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. [Non-applicable text in paragraph 63.6640(e) of the regulation is omitted from this paragraph.]

[Refer to regulation for Table 8 to 40 CFR Part 63 Subpart ZZZZ for General Subpart A Provisions applicable to subpart ZZZZ. Ongoing required Subpart A provisions for this source include:

- 63.6(e)(1)(i), the duty to minimize emissions as referenced in 63.6675 under the definition of 'Deviation' printed in the condition for 63.6675 under ADDITIONAL REQUIREMENTS in this source group; and
- 63.10(b)(1), the recordkeeping as referenced in 63.6660(b) printed in the condition for 63.6660 under RECORDKEEPING REQUIREMENTS in this source group.]

SECTION E. Source Group Restrictions.

(f) [Paragraph 63.6640(f) is printed under RESTRICTIONS in this section of permit.]

[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 6700, Jan. 30, 2013]

VI. WORK PRACTICE REQUIREMENTS.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63 Subpart ZZZZ Table 2d]

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

Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions

[FOR NATURAL GAS FUELED ENGINES]

As stated in §§63.6603 and 63.6640, you must comply with the following requirements for existing stationary RICE located at area sources of HAP emissions:

[Category 5 applies. Non-applicable items are omitted.]

5. For each Emergency stationary SI [Spark Ignition engine] RICE; (see note 2)

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; (See note 1.)
 - 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.

Notes:

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

2 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.

[75 FR page 9688, Mar. 3, 2010; 75 FR page 51595, Aug. 20, 2010; 78 FR 6700, Jan. 30, 2013]

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63 Subpart ZZZZ Table 6]

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

Table 6 to Subpart ZZZZ of Part 63.-- Continuous Compliance With Emission Limitations and Operating Limitations

As stated in §63.6640, you must continuously comply with the emissions and operating limitations and work or management practices as required by the following:

[Category 9 of Table 6 to Part 63 Subpart ZZZZ applies. Applicable requirements from Table 6 are included here. Non-applicable text from Table 6 is omitted.]

For each existing emergency stationary RICE located at an area source of HAP, complying with the Work or Management practices requirement, you must demonstrate continuous compliance by . . .

SECTION E. Source Group Restrictions.

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

[76 FR 12870, Mar. 9, 2011; 78 FR 6700, Jan. 30, 2013]

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6603]

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

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

[References in regulation to §63.6620 and Table 4 in introductory text of §63.6603 is not applicable to this source and is omitted from this paragraph.]

(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 that apply to you. [The reference in regulation to Table 2b in 63.6603(a) which is not applicable to this source is omitted from this paragraph.]

(b) - (f) [Paragraphs 63.6603 (b) through (f) are not applicable to this source.]

[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]

010 [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]

011 [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) [These paragraphs of the regulation are not applicable.]

(e) If you own or operate any of the following stationary RICE, you must operate and maintain the stationary RICE and aftertreatment 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) [Not applicable];

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

(4) - (10) [Not applicable].

SECTION E. Source Group Restrictions.

(f) If you own or operate 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. [Non-applicable text omitted from this paragraph.]

(g) [This paragraph of the regulation is not applicable].

(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. [Tables 1a, 2a, 2c do not apply to the emergency engine of this source; Category 5 of Table 2d applies.]

(i) [Paragraph (i) of the regulation is not applicable to natural gas fueled engines.]

(j) If you own or operate a stationary SI engine that is subject to the work, operation or management practices in item 5 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 Table 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 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. [Text from regulation which is not applicable to this source is omitted from this paragraph.]

[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 6700, Jan. 30, 2013]

012 [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 requirement in Table 2d to this subpart that apply to you according to methods specified in Table 6 to this subpart. [Text in the regulation 63.6640(a) which is not applicable to this source is omitted from this paragraph.] [Table 6 is printed in this section of permit.]

(b) - (d) [Paragraphs 63.6640(b) through (d) are not applicable to this source.]

(e) [Paragraph 63.6640(e) is printed under REPORTING REQUIREMENTS in this section of permit.]

(f) [Paragraph 63.6640(f) is printed under RESTRICTIONS in this section of permit.]

[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 6700, Jan. 30, 2013]

VII. ADDITIONAL REQUIREMENTS.

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?

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 from this paragraph.]

SECTION E. Source Group Restrictions.

[Refer to regulation for Table 8 to 40 CFR Part 63 Subpart ZZZZ.]

[75 FR 9678, Mar. 3, 2010]

014 [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?

[Selected definitions from §63.6675 are printed below. Refer to regulation for remaining definitions applicable to 40 CFR Part 63 Subpart ZZZZ.]

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

- (1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation or operating limitation;
- (2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or
- (3) Fails to meet any emission limitation or operating limitation in this subpart during malfunction, regardless or whether or not such failure is permitted by this subpart.
- (4) Fails to satisfy the general duty to minimize emissions established by §63.6(e)(1)(i).

Emergency stationary RICE means any stationary reciprocating internal combustion engine that meets all of the criteria in paragraphs (1) through (3) of this definition. All emergency stationary RICE must comply with the requirements specified in § 63.6640(f) in order to be considered emergency stationary RICE. If the engine does not comply with the requirements specified in § 63.6640(f), then it is not considered to be an emergency stationary RICE under this subpart.

- (1) The stationary RICE is operated to provide electrical power or mechanical work during an emergency situation. Examples include stationary RICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary RICE used to pump water in the case of fire or flood, etc.
- (2) The stationary RICE is operated under limited circumstances for situations not included in paragraph (1) of this definition, as specified in § 63.6640(f).
- (3) The stationary RICE operates as part of a financial arrangement with another entity in situations not included in paragraph (1) of this definition only as allowed in § 63.6640(f)(2)(ii) or (iii) and § 63.6640(f)(4)(i) or (ii).

Subpart means 40 CFR part 63, subpart ZZZZ.

[Source: 69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3607, Jan. 18, 2008; 75 FR 9679, Mar. 3, 2010; 75 FR 51592, Aug. 20, 2010; 76 FR 12867, Mar. 9, 2011; 78 FR 6700, Jan. 30, 2013]

*** Permit Shield in Effect. ***



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this Title V facility.

SECTION G. Emission Restriction Summary.

Source Id	Source Description			
CU002	BURNHAM BOILER A, 200 HP			
Emission Limit		Pollutant		
4.000	Lbs/MMBTU	of heat input over a 1-hour period.	SOX	
0.400	Lbs/MMBTU	of heat input.	TSP	
CU004	CLEAVER BROOKS BOILER, 250 HP			
Emission Limit		Pollutant		
4.000	Lbs/MMBTU	of heat input over a 1-hour period.	SOX	
0.400	Lbs/MMBTU	of heat input.	TSP	
CU005	BURNHAM BOILER B, 200 HP			
Emission Limit		Pollutant		
4.000	Lbs/MMBTU	of heat input over a 1-hour period.	SOX	
0.400	Lbs/MMBTU	of heat input.	TSP	
CU006	CBEX BOILER, EAST			
Emission Limit		Pollutant		
25.000	PPMV	Corrected to 3% Oxygen	CO	
9.000	PPMV	Corrected to 3% Oxygen	NOX	
8.000	PPMV	Corrected to 3% Oxygen	VOC	
CU007	CBEX BOILER, WEST			
Emission Limit		Pollutant		
25.000	PPMV	Corrected to 3% Oxygen	CO	
9.000	PPMV	Corrected to 3% Oxygen	NOX	
8.000	PPMV	Corrected to 3% Oxygen	VOC	
014	J1 DRYER & CALCINER			
Emission Limit		Pollutant		
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP	
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP	
025E	BUILDING 300 VESSELS, DRYERS, MILL, & PACKAGING			
Emission Limit		Pollutant		
0.040	gr/DRY FT3	TSP		
027	J3 DRYER			
Emission Limit		Pollutant		
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP	
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP	
032A	A5 CALCINER			
Emission Limit		Pollutant		
3.700	Tons/Yr	from lead catalyst process.	Acetone	
5.500	Lbs/Hr	from lead catalyst process.	Acetone	

SECTION G. Emission Restriction Summary.

Source Id	Source Description		
0.004	Lbs/Hr	from lead catalyst process.	Other 112
32.000	Lbs/Yr	from lead catalyst process.	Other 112
0.040	gr/DRY FT3		TSP
033	A2 MIX TANK		
Emission Limit		Pollutant	
0.040	gr/DRY FT3		TSP
036	A2 MIX TANK LOADING		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP
037A	R9/R10 WEIGH HOPPER		
Emission Limit		Pollutant	
0.030	Lbs/Hr	from the R10 Pneumatic Conveyor.	PM10
38.400	Lbs/Yr	from the R10 Pneumatic Conveyor.	PM10
040	B2 DRYER		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP
042	DEWAX OVEN 1 (BUILDING 300)		
Emission Limit		Pollutant	
500.000	PPMV	dry basis	SOX
043	TABLETING CELLS 5 & 6 (BUILDING 102)		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP
044	TABLETING CELLS 1 & 2 (BUILDING 102)		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP
046	TABLETING CELLS 3 & 4 (BUILDING 102)		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP

SECTION G. Emission Restriction Summary.

Source Id	Source Description		
047	TABLETING CELLS 7 & 8 (BUILDING 102)		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP
048	METAL DISSOLVING		
Emission Limit		Pollutant	
17.600	Lbs/Hr		NOX
77.000	Tons/Yr		NOX
051	TABLETING CELL 9		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP
053	B2 CALCINER		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP
069D	BLDG 350 SCREENER		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP
069E	DEWAX OVEN 2 (BUILDING 300)		
Emission Limit		Pollutant	
500.000	PPMV	dry basis	SOX
069F	A2 CONE MIXERS		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP
069G	A5 CALCINER LOADING & PACKAGING		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP

SECTION G. Emission Restriction Summary.

Source Id	Source Description		
069H	B4 PACKAGING		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP
101	EMERGENCY GENERATOR #1, 100KW NAT GAS (OUTSIDE BOILER HOUSE)		
Emission Limit		Pollutant	
500.000	PPMV		SOX
0.040	gr/DRY FT3		TSP
102	EMERGENCY GENERATOR #2, 100KW NAT GAS (OUTSIDE BUILDING 300)		
Emission Limit		Pollutant	
500.000	PPMV		SOX
0.040	gr/DRY FT3		TSP
115	R9 LOAD HOPPER		
Emission Limit		Pollutant	
0.040	gr/DRY FT3		TSP
116	R9 VESSEL		
Emission Limit		Pollutant	
0.040	gr/DRY FT3		TSP
117	BUILDING A6		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP
118	BUILDING H		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP
119	SHED WAREHOUSE		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP
120	EMERGENCY GENERATOR #3, 70 KW NAT GAS (INSIDE BUILDING 300)		
Emission Limit		Pollutant	
500.000	PPMV		SOX
0.040	gr/DRY FT3		TSP

SECTION G. Emission Restriction Summary.

Source Id	Source Description		
200	R3 PACKAGING		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP
201	R6 PACKAGING		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP
203	B4 MULLER		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP
204	R8 PACKAGING		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP
205	R5/R6 VESSELS		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	Sources 054, 055, 069H, 201 & 205 only	TSP
0.040	gr/DRY FT3	Except Sources 054, 055, 069H, 201 & 205 are restricted to 0.02 gr/dscf	TSP

Site Emission Restriction Summary

Emission Limit	Pollutant
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SECTION H. Miscellaneous.

(a) The Capacity/Throughput numbers listed in Section A, the Site Inventory List, 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 G.

- (b) Source ID: Department assigned ID number for the source
 Source Name: Department assigned name for the source
 Capacity: The maximum rated capacity for the source (not a limit)
 Fuel/Material: The fuel/material assigned to SCC for the source
 Schematics:
 FML: Fuel material location
 CU: Combustion Unit source
 PROC: Process
 CNTL: Control device
 STAC: Stack / Emission Point

(c) There are no applicable emission limitations, recordkeeping, reporting, monitoring, testing, work practice standards, or other requirements from the following source and/or activities listed below. Included in parenthesis next to the source description is the source identification numbers indicated in the Natural Minor permit application.

- (1) Condensate Tank (BOIL104)
- (2) Heat Exchanger (BOIL105)
- (3) Room Vents: The following emission points are ceiling vents for human comfort found in the following locations throughout the plant.
 - a. Boiler Room (BOIL107)
 - b. B2 (CuCr Plant) (CUCR111) - 2 vents
 - c. West End Box Dryer Room (MA113)
 - d. Building 300 High Bay Area (MA114)
 - e. East End Box Dryer Room (MA115)
 - f. Upstairs East Wet End (MA116)
 - g. J4 Area (NIBE112) - 2 vents
 - h. J3 Area (NIWE114)
 - i. J2 Area (NIWE115) - 2 vents
 - j. Nickel Wet End (NIWE117) - 2 vents
 - k. J1 Area (NIWE119) - 3 vents
 - l. C2 (Powdered Noble Metals Plant) (PNM103)
 - m. B4 (Sphere Making Plant) (SPM106) - 2 vents
 - n. A6 (VAM Reactor Building) (VAM102)
 - o. A1 (Q Cone Room) vented outdoors via a stack from a 300 CFM vacuum pump; RFD approved April 26, 2006.
- (4) Storage Tanks: The following storage tanks located at the plant do not need to be included as individual sources because either they do not contain VOC's or do not meet the threshold requirement for vapor pressure.
 - a. Nitric Acid
 - b. Sodium Carbonate (Soda Ash)
 - c. Sodium Hydroxide (Caustic)
 - d. Phosphoric Acid
 - e. Isobutyl Alcohol
 - f. Waste Isobutyl Alcohol
 - g. Ammonium Hydroxide
 - h. Nitrogen Plant (owned and maintained by vendor)
 - i. Liquid Hydrogen (owned and maintained by vendor)
 - j. Carbon Dioxide (owned and maintained by vendor)
- (5) Dust Collectors: The following dust collectors exhaust indoors and are associated with processes which are not subject to the CMAS rule and are considered to be insignificant sources.
 - a. Building 300 North Screener & Torit DF5D-12;
 - b. Building 300 South Screener & Torit 3DF24.

(d) The facility also contains the following stacks/vents (as described and numbered in the Natural Minor permit application) having only water vapor emissions which are not regulated:

1. BOIL 304 Condensate Tank Stack
2. BOIL 305 Flash Tank Stack

SECTION H. Miscellaneous.

3. CUCR306 T-304-1 Precipitation Tank
4. CUCR306 T-304-2 Precipitation Tank
5. CUCR307 North Recovery Tank
6. CUCR307 South Recovery Tank
7. CUCR308 Rotary Vacuum Filter
8. CUCR309 Filter Feed Tank
9. CUCR110 Filtrate Recovery Tank
10. NIBE302 R4 Vent Separator
11. NIBE305 R10 Make Up Tank (T-388)
12. NIBE307 R10 Vent Separator
13. NIBE309 R4 Pastillator Feed Tank
14. NIBE124 R7 Vent Separator
15. NIBE334 R5 Vent Separator
16. NIBE337 R1 Vent Separator
17. NIWE307 T-303 Charge Hood
18. NIWE307 T-303 J1 Base Make-Up Tank
19. NIWE307 T-304 J1 Precipitation Tank
20. NIWE307 T-307 Charge Hood
21. NIWE307 T-307 J1 Filter Feed Tank
22. NIWE307 T-352 J1 Wash Tank
23. NIWE309 T-302 pH Adjustment Tank
24. NIWE309 T-365 Wash Tank
25. NIWE310 T-301A J1 Base Make-Up Tank
26. NIWE313 T-363 J3 Base Make-Up Tank
27. NIWE313 T-364 J3 Precipitation Tank
28. NIWE313 T-367 J3 Filter Feed Tank
29. NIWE313 T-362 J3 pH Adjustment Tank
30. SHED301 M50316 Drying Oven
31. SHED302 M51538 Drying Oven
32. SPM303 M4464 Drying Oven
33. SPM304 M4465 Drying Oven
34. SPM305 M53973 Drying Oven
35. SPS301 VAM Pitch Tank
36. SPS301 VAM Wash Tank
37. SPS301 VAM Filter Feed Tank
38. SPS303 M51542 Drying Oven
39. NIBE141 R1, R2 Reactor Building Stack

(e) Source 025E. The 2 building 300 Croll Reynolds Scrubbers exhaust to a common stack. There is only 1 stack associated with all 3 scrubbers of the scrubbing system which control processes in the Building 300.

(f) Source 069G. For the purposes of this permit, Source 069G is comprised of:

- (1) A5 Calciner Loading (Lead 101)
- (2) A5 Catalyst Screening (Lead 104A)
- (3) A5 Drum Loading Station (Lead 104B)

(g) Source 999. For the purposes of this permit, Source 999 consists of the natural gas combustion from the following:

Source	Description	Manufacturer	Rated Input (Btu/hr)	Installation
NIBE135	R1 Preheater	Brown Fintube	575,000	1976
NIBE114	R9 Preheater	Brown Fintube	820,000	1981
NIBE122	R7 Preheater	Thermoflux Evenflux-HD	600,000	1991
NIBE101	R4 Preheater	Brown Fintube	308,000	1973
NIBE108	R10 Preheater	Thermoflux Evenflux-HD	433,000	1989
NIBE133	R5 Preheater	Brown Fintube	456,000	1973
NIWE103	Hot Oil Heater	Volcanic model #2005	2,900,000	1980
CUCR101	B2 Calciner	Renneberg & Sons	3,000,000	1973
NIWE102A	J1 Calciner	Barlett Snow	2,400,000	1976
MA201	Thermal Oxidizers (Source C042)	Catalytic Products	3,000,000	1993
MA217	Thermal Oxidizers (Source C069E)	Catalytic Products	3,000,000	2000

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MA101	DeWax Oven #1 (Source 042)	Despatch, Inc.	1,500,000	1993
MA117	DeWax Oven #2 (Source 069E)	Despatch, Inc.	2,500,000	2000

(h) Sources in the application have emissions below the levels necessary for permitting. The department was advised of this at a meeting on January 18, 2007, at the NWRO in Meadville. Mr. Richard Mirth represented Engelhard at this meeting. The sources are as follows:

CUCR111 - CUCR Plant	NIBE131 - R5 Hood Exhaust Blower
MA103 - NST #3 Oven	NIBE132A - R5 to R6 Nitrogen Purge
MA106 - NST #2 Oven	OMP101 - HCL Make-Up Tank
NIBE129 - R5 Reduction Vessel	PNM101 - Nobel Metals Plant (Ceased operation in 2016)

(i) Limited Production Activities are limited time and/or small quantity production runs of products not specifically permitted to be run on the sources listed in this group. Limited Production Activities are allowed in accordance with 25 Pa. Code §127.14(a)(9) pertaining to physical changes of minor significance.

(j) Trial Batch is the production of material intended for research and product development. Trial Batches are allowed in accordance with 25 Pa. Code §127.441.

(k) This permit was administratively amended on May 17, 2010 to incorporate the change in Tax ID and the change in Responsible Official.

(l) This permit was administratively amended on January 10, 2011 to incorporate the conditions from plan approval 25-069M.

(m) This permit was administratively amended on January 19, 2012 to incorporate the requirements of plan approval 25-069N.

(n) The following regulations are incorporated into this permit by reference to the regulation.

- Table 9 to 40 CFR Part 63 Subpart VVVVV, Applicability of General Provisions to Subpart VVVVV

(o) This operating permit renewal effective August 1, 2012, is issued on August 1, 2012.

(p) This August 1, 2012, renewal is re-issued on September 11, 2012, in order to add 2 sources (AIMS IDs 056 and 306) back to the permit which had been removed on August 1, 2012, as a result of mistaken communication from the facility.

(q) Sintered metal filters at the site were previously considered to be control devices and with the May 6, 2016, approval of the 5/8/2015 RFD, these sintered metal filters are no longer considered to be control devices by the Department. They are now considered to be equipment integral to the processes. Based upon this determination, the following control device ID's are removed from the permit at this renewal: C049, C116, C301, C304, C305, C306. And C307A is modified to exclude the sintered metal filter system.

(r) Several dust collectors at the site were previously considered to be control devices and on August 23, 2018, the Department made a determination that these collectors are actually process equipment and are no longer considered to be control devices. This determination is made in accordance with the Nov. 2, 1995, EPA determination with the subject "Criteria for Determining Whether Equipment is Air Pollution Control Equipment Process Equipment". Since the dust collectors are used to convey and reclaim valuable material rather than control air pollution. With this determination, the control devices for the following sources were removed from the permit maps: Sources 019A, 025E, 034, 037A2, 049, 052, 054, 055, 069A, 115, & 202.

(s) Processes with no CMAS rule requirements in the permit are as follows.

(1) This facility does not have any storage tanks that store liquids that contain any organic urban HAPs subject to the CMAS rule of 40 CFR Part 63 Subpart VVVVV (6Vs).

(2) This facility has no wastewater streams associated with CMPUs subject to the CMAS rule that contain any partially soluble HAPs listed in Table 7 of 40 CFR Part 63 Subpart VVVVV (6 Vs). Therefore, there are no wastewater requirements in the CMAS rule applicable to facility operations.

(3) This facility operates small heat exchange systems (as defined by the CMAS rule of 40 CFR Part 63 Subpart VVVVV (6 Vs); however, there are no applicable requirements for heat exchange systems at the facility since each system meets one of the exemption criterion of 40 CFR §63.104(a) as referenced in §63.11495(b) of the CMAS rule.

SECTION H. Miscellaneous.

(t) This operating permit renewal, issued December 6, 2018, is effective December 6, 2018. With this issuance, the operating permit is no longer a State Only permit. Potential emissions for this facility remain below the major source thresholds; however a Title V operating permit is required in accordance with the Dec. 21, 2012, promulgation of an amendment to 40 CFR Part 63 Subpart VVVVV, the CMAS rule. The amendment to 40 CFR §63.11494(e) requires that any facility subject to the rule which employs a control device to reduce HAP emissions below the major source threshold must obtain a Title V operating permit. Also processed with this issuance are:

- the conditions of plan approval 25-069Q in accordance with the EPA Homer City decision mandating that the requirements of current plan approvals be included in operating permit renewals;
- a January 31, 2018, request for Administrative Amendment to change the Responsible Official;
- a May 6, 2016, determination that the Department no longer considers Sintered Metal Filters to be control devices; and
- an August 23, 2018, determination that 11 dust collectors which are used to convey product at the facility are not considered to be air pollution control devices and are instead considered to be process equipment in accordance with criteria set forth in a Nov. 2, 1995, EPA determination. The 11 dust collectors are associated with the following source ID's: 019A, 025E, 034, 037A2, 049, 052, 054, 055, 069A, 115, & 202.



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