



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

TITLE V/STATE OPERATING PERMIT

Issue Date:	May 13, 2020	Effective Date:	May 13, 2020
Revision Date:	May 13, 2020	Expiration Date:	September 24, 2023
Revision Type:	Amendment		

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

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable applicable requirements unless otherwise designated as "State-Only" or "non-applicable" requirements.

TITLE V Permit No: 15-00027

Federal Tax Id - Plant Code: 23-0411710-3

Owner Information

Name: JOHNSON MATTHEY INC
Mailing Address: 456 DEVON PARK DR
WAYNE, PA 19087-1816

Plant Information

Plant: JOHNSON MATTHEY/WAYNE PLT
Location: 15 Chester County 15952 Tredyffrin Township
SIC Code: 3714 Manufacturing - Motor Vehicle Parts And Accessories

Responsible Official

Name: CRAIG PORTER
Title: PLANT MANAGER
Phone: (610) 341 - 3473

Permit Contact Person

Name: DENIS BRODERICK
Title: EH&S ENGINEER
Phone: (610) 341 - 8337

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



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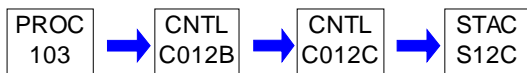
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**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput		Fuel/Material
103	DEVON I PRODUCTION AREA	1,000.000	Lbs/HR	COATINGS
		120.000	Sq Ft/HR	AUTOCATALYSTS
104	ENGINE TEST CELLS (6)	27.000	Gal/HR	GASOLINE/DIESEL
115	DEVON II QC LAB SAMPLE EQUIPMENT			
117	POWDER HANDLING EQUIPMENT (SYSTEM I)	300.000	Lbs/HR	AUTOCATALYSTS
119	POWDER HANDLING EQUIPMENT (DEVON II)	300.000	Lbs/HR	AUTOCATALYSTS
128	LINE 7 COATING PROCESS (DEVON III)		N/A	PRECIOUS METALS/CER.
129	LINE 10 COATING PROCESS (DEVON III)		N/A	PRECIOUS METALS/CER.
130	LINE 11 COATING PROCESS (DEVON III)		N/A	PRECIOUS METALS/CER.
136	LINE 14 2-STAGE DOSING STATION		N/A	WASHCOATS
137	LINE 15 2-STAGE DOSING STATION		N/A	WASHCOATS
199	650-KW BACKUP DIESEL GENERATOR	45.800	Gal/HR	Diesel Fuel
200A	400-KW DIESEL EMERGENCY GENERATOR	29.200	Gal/HR	Diesel Fuel
203	LINE 14 DRYING & CALCINING		N/A	SUBSTRATE W/ CATALYT
			N/A	SUBSTRATE W/CATALYTI
204	LINE 15 DRYING & CALCINING		N/A	SUBSTRATE W/ CATALYT
302	WASHCOAT BLENDING TANKS	2,000.000	Gal/HR	WASHCOAT
732	EMERGENCY GENERATOR (DETROIT 650 KW)	65.000	Gal/HR	Diesel Fuel
735A	GAS FIRED HEATERS	5.500	MCF/HR	Natural Gas
998	25 PA 129.52D METAL SURFACE COATING			
999	§40 CFR 63, SUBPART CCCCCC		N/A	
C010A	DUST COLLECTOR III (POWDER HANDLING)			
C010B	DUST COLLECTOR IV (POWDER HANDLING)			
C012B	SCR SYSTEM (DEVON III)	250.000	Tons/HR	NAOH SOLUTION
C012C	AMMONIA SCRUBBER (DEVON III)	1.000	Lbs/HR	AMMONIA
C013C	DEVON III AREA DUST COLLECTOR	4.000	Lbs/HR	POWDER
C015A	BLENDING TANKS DUST COLLECTOR 3	1.000	Lbs/HR	PARTICULATE MATTER
C017	LINE 14 OVENS NOX SCRUBBER		N/A	NAOH IN H2O
C018	LINE 14 AMMONIA SCRUBBER		N/A	SULFURIC ACID IN H2O
C019	LINE 15 AMMONIA SCRUBBER		N/A	SULFURIC ACID IN H2O
C020	LINE 14 SCR SYSTEM		N/A	AQUEOUS AMMONIA (30%
C021	LINE 15 SCR SYSTEM		N/A	AQUEOUS AMMONIA (30%
C06	DUST COLLECTOR 1 (SAMPLE PREPARATION)			
C08A1	CAMFIL FARR DUST COLLECTOR FOR PROC 117			
FML01	DIESEL FUEL TANK, DEVON II EAST			
FML02	DIESEL STORAGE TANK, DEVON II WEST			
FML04	DIESEL STORAGE TANK, DEVON III WEST			
FML05	NATURAL GAS SUPPLY			
FML07	GASOLINE STORAGE TANK A			
FML08	DIESEL STORAGE TANK B			

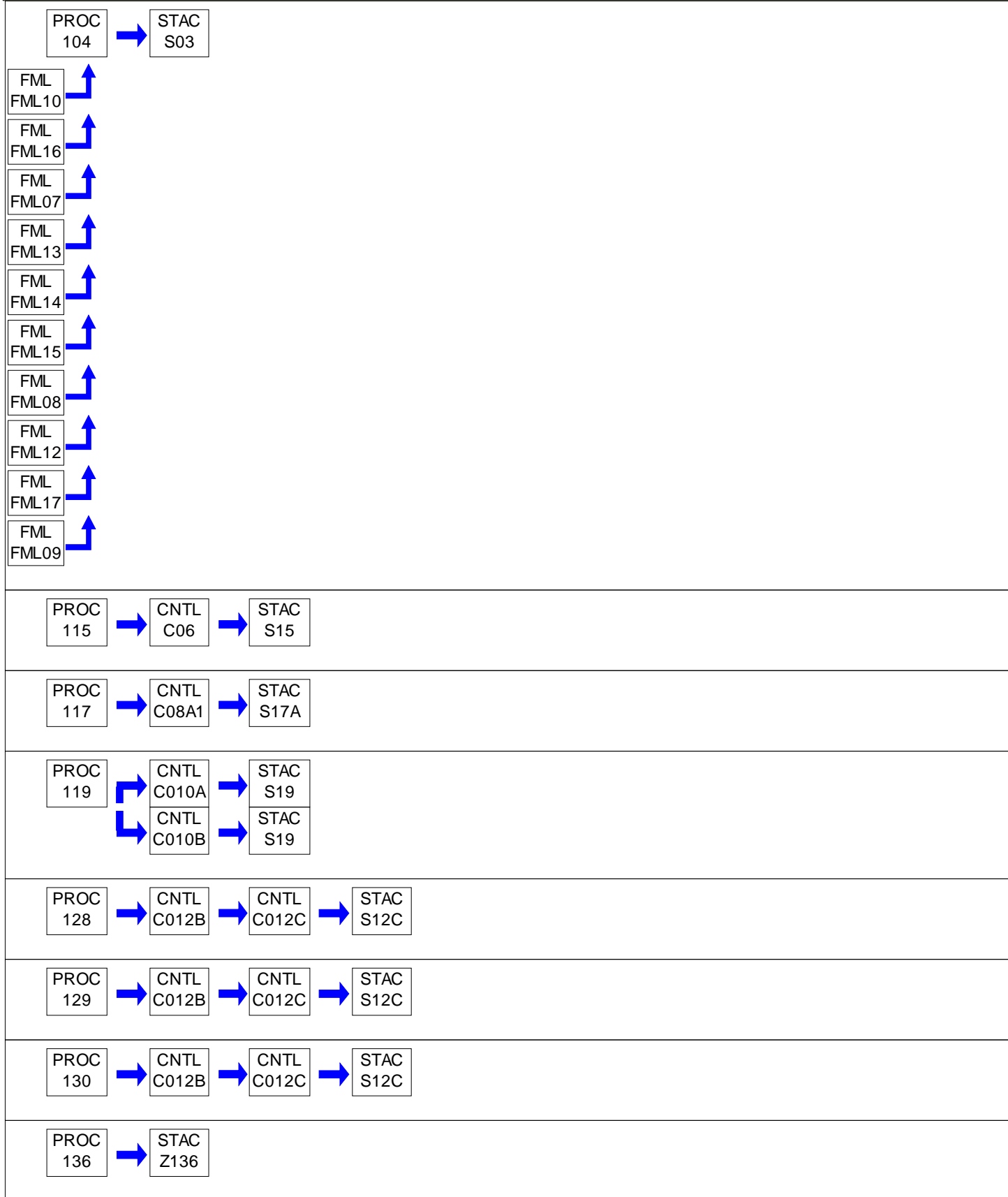
**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
FML09	DIESEL STORAGE TANK C		
FML10	GASOLINE STORAGE TANK D		
FML12	GASOLINE STORAGE TANK E1		
FML13	GASOLINE STORAGE TANK E2		
FML14	GASOLINE STORAGE TANK E3		
FML15	GASOLINE STORAGE TANK E4		
FML16	DIESEL STORAGE TANK F1		
FML17	DIESEL STORAGE TANK F2		
S03	TEST ENGINE STACK		
S08	GAS FIRED HEATERS STACK		
S10	DET. EMER GEN STACK		
S12C	SCR SYSTEM STACK (DEVON III)		
S13C	DEVON III DUST COLLECTOR STACK		
S15	SAMPLE PREP STACK		
S17A	POWDER HANDLING STACK (SYSTEM I)		
S19	POWDER HANDLING STACK (DEVON II)		
S29	DIESEL EMER GEN STACK		
S30	LINE 14 POLLUTION CONTROL SYSTEM STACK		
S31	LINE 15 POLLUTION CONTROL SYSTEM STACK		
S34	LINE 14 STATIC OVENS EXHAUSTS		
S35	LINE 15 STATIC OVENS COOLDOWN STACK		
S36	LINE 14 DRYERS EXHAUSTS		
S37	LINE 14 DRYERS COOLDOWN STACKS		
S38	650-KW BACKUP DIESEL GENERATOR EXHAUST		
S39	LINE 15 STATIC OVEN EXHAUST		
S40	LINE 15 STATIC OVEN COOLDOWN EXHAUST		
S41	LINE 15 DRYERS EXHAUSTS		
S42	LINE 15 DRYER COOLDOWN EXHAUST		
S45	BLENDING TANKS/ORGANIC DUST COLLECTOR STACK		
Z136	FUGITIVE EMISSIONS (LINE 14 2-STAGE DOSING STATION)		
Z137	FUGITIVE EMISSIONS (LINE 15 2-STAGE DOSING STATION)		

PERMIT MAPS

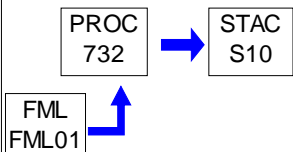
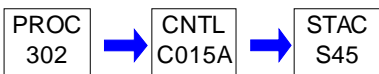
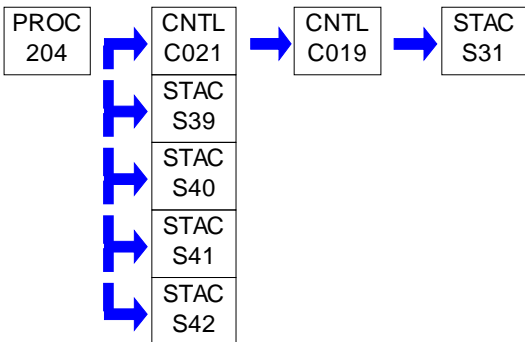
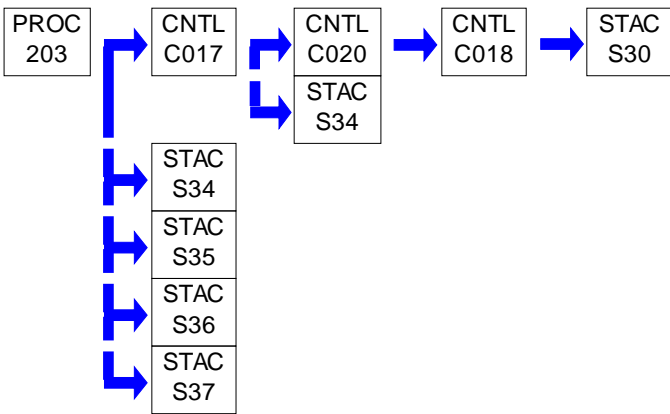
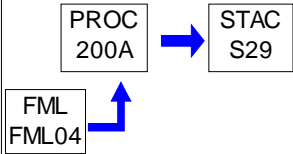
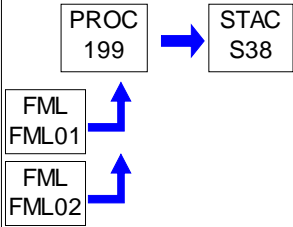
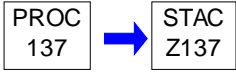


PERMIT MAPS



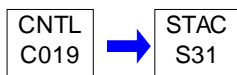
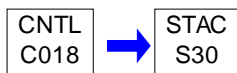
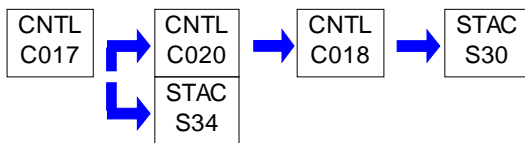
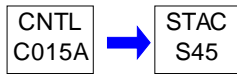
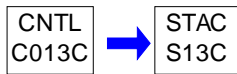
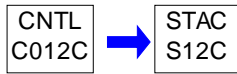
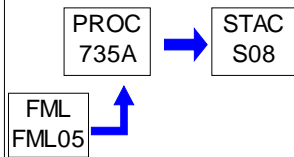


PERMIT MAPS





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.

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(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)

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- (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.

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(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.

#031 [25 Pa. Code §135.3]**Reporting**

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

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

#032 [25 Pa. Code §135.4]**Report Format**

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

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

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

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

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

- (a) construction or demolition of buildings or structures;
- (b) grading, paving and maintenance of roads and streets;
- (c) use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets;
- (d) clearing of land;
- (e) stockpiling of materials;
- (f) open burning operations, as specified in 25 Pa. Code § 129.14;
- (g) blasting in open pit mines. Emissions from drilling are not considered as emissions from blasting;
- (h) coke oven batteries, provided the fugitive air contaminants emitted from any coke oven battery comply with the standards for visible fugitive emissions in 25 Pa. Code §§ 123.44 and 129.15 (relating to limitations of visible fugitive air contaminants from operation of any coke oven battery; and coke pushing operations); and
- (i) sources and classes of sources other than those identified in (a)-(h), above, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (1) the emissions are of minor significance with respect to causing air pollution; and
 - (2) the emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

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

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in Condition #002(a) -- (i) (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

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

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

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

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

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

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

The limitations of Condition #005, of this Section, do not apply to a visible emission in either of the following instances:

- (a) when the presence of uncombined water is the only reason for failure to meet the limitations; or
- (b) when the emission results from the sources specified in Condition #002, of this Section.

**SECTION C. Site Level Requirements****# 007 [25 Pa. Code §129.14]****Open burning operations**

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

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

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

The facility-wide emissions shall meet the following limits:

- (1) Hazardous air pollutants (HAPs) emissions of any individual HAP shall not exceed 9.9 ton/year, as a twelve (12) month rolling sum.
- (2) Aggregated HAPs emissions shall not exceed 24.9 ton/year, as a twelve (12) month rolling sum.
- (3) Total volatile organic compounds (VOC) emissions shall not exceed 43 ton/year, as a twelve (12) month rolling sum.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.218.]

In accordance with the plantwide applicability (PAL) provisions of 25 Pa. Code § 127.218(g), the permittee shall ensure that the Nitrogen Oxides (NOx) emissions from the facility shall not exceed 38.05 tons in any twelve (12) consecutive months.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

- (a) If at any time the Department has cause to believe that air contaminant emissions from any source(s) listed in Section A, of this Permit, may be in excess of the limitations specified in this Permit, or established pursuant to, any applicable rule or regulation contained in 25 Pa. Code Article III, the permittee shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s).
- (b) Such testing shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139, when applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.

**SECTION C. Site Level Requirements****III. MONITORING REQUIREMENTS.****# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511]

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

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

(b) Objectionable odors, fugitive particulate emissions, and visible emissions that are caused or may be caused by operations at the site shall:

- (1) be investigated;
- (2) be reported to the facility management, or individual(s) designated by the permittee;
- (3) have appropriate corrective action taken (for emissions that originate on-site); and
- (4) be recorded in a permanent written log.

(c) After six (6) months of daily monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the monitoring frequency to weekly.

(d) After six (6) months of weekly monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the frequency of monitoring to monthly.

(e) The Department reserves the right to change the above monitoring requirements at any time, based on but not limited to: the review of the compliance certification (if applicable), complaints, monitoring results, and/or Department findings.

[Note: the facility currently monitors odors, visible emissions and fugitive emissions on a weekly basis.]

012 [25 Pa. Code §123.43]**Measuring techniques**

Visible emissions may be measured using either of the following:

- (a) a device approved by the Department and maintained to provide accurate opacity measurements; or
- (b) observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.218.]

In accordance with the plantwide applicability (PAL) provisions of 25 Pa. Code §§127.218(g) and (m), the permittee shall calculate the total NOx emissions from the facility on a monthly basis and a 12-month rolling sum, by compiling the emissions from the following sources:

- (1) Pilot Plant Drying Process (Devon I) (Source ID: 103)
- (2) Engine Test Cells (6) (Source ID: 104, including PM Generator)
- (3) Line 7 Coating Process (Devon III) (Source ID: 128)
- (4) Line 10 Coating Process (Devon III) (Source ID: 129)
- (5) Line 11 Coating Process (Devon III) (Source ID: 130)
- (6) 650-kW Backup Diesel Generator (Source ID: 199)
- (7) 400-kW Backup Diesel Generator (Source ID: 200A)
- (8) Line 14 Drying & Calcining (Source ID: 203)
- (9) Line 15 Drying & Calcining (Source ID: 204)
- (10) Emergency Generator (Detroit) (Source ID: 732)
- (11) Gas Fired Heaters (Source ID: 735A)
- (12) SCR System (Devon III) (Source ID: C012B)

**SECTION C. Site Level Requirements**

- (13) Line 14 SCR System (Source ID: C020)
 (14) Line 15 SCR System (Source ID: C021)
 (15) A NOx Generator (under Source ID: 115 - Devon II Lab Sample Equipment)
 (16) All insignificant sources, including NOx Emission Test Reactor.

IV. RECORDKEEPING REQUIREMENTS.**# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (a) The permittee may modify the mixture of pollutants regulated under Section 112 of the Clean Air Act (42 U.S.C.A. § 7412) which are VOC or PM10 so long as the emission limitations of this permit are not violated.
- (b) The permittee shall keep a log which identifies the mixture of pollutants regulated under Section 112 and report the changes in the mixture of pollutants regulated under Section 112 with the next report required to be provided to the Department.

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

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

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

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

The permittee shall compile and keep records of the total VOC and HAP emissions from the facility daily, monthly, and on a 12-month rolling sum basis, using the Department approved method(s).

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.218.]

- (a) In accordance with the plantwide applicability (PAL) provisions of 25 Pa. Code §§127.218(g) and (n), the permittee shall maintain records of the total NOx emissions from the facility necessary to determine compliance with the NOx PAL, including a determination of the 12-month rolling total emissions for each emissions unit. The records shall be retained for five years.
- (b) In accordance with the plantwide applicability (PAL) provisions of 25 Pa. Code § 127.218(g), emission calculations for compliance with the NOx PAL shall include emissions from startups, shutdowns, and malfunctions.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511.]

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

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

**SECTION C. Site Level Requirements****V. REPORTING REQUIREMENTS.****# 019 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511(c).]

The permittee shall submit the following:

- (a) An annual certificate of compliance, due by April 1st of each year, for the period covering January 1 through December 31 of the previous year. This certificate of compliance shall document compliance with all permit terms and conditions set forth in this Title V permit as required under condition #24 of section B of this permit. The annual certificate of compliance shall be submitted to the Department in paper form, and EPA Region III in electronic form at the following email address:
R3_APD_Permits@epa.gov
- (b) A semi-annual deviation report, due by October 1, of each year, for the period covering January 1 through June 30 of the same year. Note: The annual certification of compliance fulfills the obligation for the second deviation reporting period (July 1 through December 31 of the previous year).

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.218.]

In accordance with the plantwide applicability provisions of 25 Pa. Code §§ 127.218(g) and (o), the permittee shall submit semiannual reports of the following:

- (a) Total annual emissions in TPY based on a 12-month rolling total for each month in the reporting period recorded in compliance with 25 Pa. Code § 127.218(n)(1).
- (b) Data relied upon, including, if relevant, the quality assurance or quality control data, in calculating the monthly and annual PAL pollutant emissions.
- (c) A list of the emissions units modified or added to the major facility during the preceding 6-month period.
- (d) The number, duration, and cause of deviations or, if relevant, monitoring malfunctions (other than the time associated with zero and span calibration checks), and the corrective action taken.
- (e) If relevant, a notification of a shutdown of a monitoring system, whether the shutdown was permanent or temporary, the reason for the shutdown, the anticipated date that the monitoring system will be fully operational or replaced with another monitoring system, whether the emissions unit served by the monitoring system continued to operate, and the calculation of the emissions of the pollutant or the number determined by the method included in the permit under 25 Pa. Code §127.218(m)(10).
- (f) A statement signed by a responsible official of the company that owns or operates the facility certifying the truth, accuracy, and completeness of the information provided in the report.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.218.]

In accordance with the plantwide applicability (PAL) provisions of 25 Pa. Code §§127.218(g) and (o), the permittee shall submit reports of deviations and exceedances of the PAL requirements.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511.]

- (a) The permittee shall, within two (2) hours of discovery of any occurrence, notify the Department, at (484) 250-5920, of any

**SECTION C. Site Level Requirements**

malfunction of the source(s) or associated air pollution control devices listed in Section A, of this permit, which results in, or may possibly result in, the emission of air contaminants in excess of the limitations specified in this permit, or of a regulation contained in 25 Pa. Code Article III.

(b) Malfunction(s) which occur at this facility, and pose(s) an imminent danger to public health, safety, welfare and the environment, and would violate permit conditions if the source were to continue to operate after the malfunction, shall immediately be reported to the Department by telephone at the above number.

(c) A written report shall be submitted to the Department within two (2) working days following the notification of the incident, and shall describe the following:

- (1) The malfunction(s).
- (2) The emission(s).
- (3) The duration.
- (4) Any corrective action taken.

023 [25 Pa. Code §135.21]**Emission statements**

The permittee shall submit, by March 1 of each year, an annual emission statement for the preceding calendar year.

024 [25 Pa. Code §135.3]**Reporting**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

The permittee shall submit by March 1, of each year, a source report for the preceding calendar year. The report shall include information from all previously reported sources, new sources which were first operated during the preceding calendar year, and sources modified during the same period which were not previously reported, including those sources listed in the Miscellaneous Section of this permit.

The permittee may request an extension of time from the Department for the filing of a source report, and the Department may grant the extension for reasonable cause.

VI. WORK PRACTICE REQUIREMENTS.**# 025 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

A person responsible for any source specified in 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

- (a) use, where possible, of water or suitable chemicals, for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land;
- (b) application of asphalt, water, or other suitable chemicals, on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts;
- (c) paving and maintenance of roadways; and
- (d) prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or by other means.

026 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

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

**SECTION C. Site Level Requirements****# 027 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

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

028 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

The permittee may not modify any air contaminant system identified in this permit, prior to obtaining Department approval, except those modifications authorized by Condition #019(g), of Section B, of this permit.

029 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall reduce emissions of Class I and Class II refrigerants during the service, maintenance, repair and disposal of equipment in accordance with the requirements of 40 CFR Part 82, Subpart F, Recycling and Emissions Reduction.

VII. ADDITIONAL REQUIREMENTS.**# 030 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.218.]

(a) The effective date of the NO_x PAL for the Johnson Matthey, Inc. Wayne Plant is Septemebr 12, 2012.

(b) The NO_x PAL effective period for the Johnson Matthey, Inc. Wayne Plant will expire ten years after the effective date.

031 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.218.]

Compliance with the plantwide applicability limit, of Section C, and the conditions for the PAL specified in this permit, shall constitute compliance with the Prevention of Significant Deterioration ("PSD") PAL provisions of §40 CFR 52.21(aa) with respect to NO_x emissions, as incorporated by reference at 25 Pa. Code Chapter 127, Subchapter D. The permittee shall comply with the relevant requirements listed in §40 CFR 52.21(aa).

032 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.218.]

(a) In accordance with the plantwide applicability (PAL) provisions of 25 Pa. Code §127.218(g), if the permittee applies to renew the NO_x PAL in accordance with 25 Pa. Code §127.218(k) before the end of the PAL effective period, the PAL permit does not expire at the end of the PAL effective period. The PAL permit remains in effect until the Department issues a revised PAL permit.

(b) In accordance with the plantwide applicability (PAL) provisions of 25 Pa. Code §127.218(g), upon expiration of the PAL permit, the permittee is subject to the requirements of 25 Pa. Code §127.218(j).

033 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart CCCCCC § 63.11599]**SUBPART CCCCCC - National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing****Am I subject to this subpart?**

**SECTION C. Site Level Requirements**

Pursuant to 40 CFR §63.11599(a), a source is subject to 40 CFR Part 63 Subpart CCCCCC—National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing, if it operates or uses hazardous air pollutant materials (HAP), or generates HAP emissions, as defined in §63.11607.

This facility is subject to the applicable requirements of this subpart, as presented under Source ID 999 in Section D, of this permit.

VIII. COMPLIANCE CERTIFICATION.

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

IX. COMPLIANCE SCHEDULE.

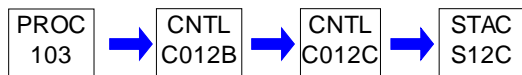
No compliance milestones exist.

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

**SECTION D. Source Level Requirements**

Source ID: 103

Source Name: DEVON I PRODUCTION AREA

Source Capacity/Throughput: 1,000.000 Lbs/HR
120.000 Sq Ft/HRCOATINGS
AUTOCATALYSTS**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.13]****Processes**

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

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

(a) The total emissions from the Devon I Production Area (Source ID: 103) (after-control) shall not exceed the following limits, as a twelve (12) month rolling sum:

- (1) 13.6 ton/yr of VOC (as CH₄)
- (2) 26.6 ton/yr of NO_x (as NO₂)

(b) The exhaust from the process(es) may bypass its associated air pollution control system when the emissions (pre-control) do not exceed:

- (1) 2.6 lb/hr of NO_x, and
- (2) 0.4 lb/hr of VOC

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.**

For this source, the permittee shall

- (a) monitor monthly usage for each coating, thinner, component and cleaning solvents.
- (b) track the total VOC and NO_x emissions from this source, on a monthly and on a 12-month rolling sum basis.
- (c) monitor operating hours when the exhaust bypasses the air pollution control system.

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

The permittee shall keep the following records monthly:

- (a) usage for each coating, thinner, component and cleaning solvent.

**SECTION D. Source Level Requirements**

- (b) VOC and HAP content for each coating, thinner, component and cleaning solvent.
- (c) the total VOC and NO_x emissions as a 12-month rolling sum basis, based on:
 - usage and content of each paint, thinner and solvent,
 - control device removal efficiency, and/or
 - operating hours when the exhaust bypasses the control system.
- (d) operating hours when the exhaust bypasses the air pollution control system.

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.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The Devon I Production Area (Source ID: 103) consists of coating application and a single continuous drying oven (manufactured by FECO, with 5,000 scfm).
- (b) Pollutant emissions from this source are exhausted to an air pollution control system consisting of a Selective Catalytic Reduction (SCR) system (Source ID: C012B) and an Ammonia Scrubber (Source ID: C012C).
- (c) Source ID 103 is subject to 25 Pa. Code §129.52d when coating metal parts. The applicable requirements of 25 Pa. Code §129.52d are presented under Source ID 998, of this Section.

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

**SECTION D. Source Level Requirements**

Source ID: 104

Source Name: ENGINE TEST CELLS (6)

Source Capacity/Throughput:

27.000 Gal/HR

GASOLINE/DIESEL

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

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

002 [25 Pa. Code §123.21]**General**

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

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

**SECTION D. Source Level Requirements**

For this source, the permittee shall ensure:

- (a) the total NO_x emissions shall not exceed 11.0 tons per year, as a 12-month rolling sum.
- (b) the total VOC emissions shall not exceed 3 pounds per hour, 15 pounds per day or 2.7 tons in any twelve (12) consecutive month period, whichever is most stringent.

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.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

For this source, the permittee shall monitor the following operating parameters on a weekly basis:

- (i) The amount and type (i.e., diesel fuel, gasoline) of fuel combusted.
- (ii) The hours of operation.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) For this source, the permittee shall record the following operating parameters on a weekly basis:

- (i) The amount and type (i.e., diesel fuel, gasoline) of fuel combusted.
- (ii) The hours of operation for Engine Test Cells and PM Generator.

(b) For this source, the permittee shall calculate and record the following on a monthly basis:

- (i) NO_x emissions (for Engine Test Cells and PM Generator)
- (ii) VOC emissions (for PM Generator only)
- (iii) PM emissions (for PM Generator only)

The permittee may use AP-42 emission factors or other Department approved methodology to calculate the pollutant emissions.

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.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

This source shall be maintained and operated in accordance with manufacturer's specifications.

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

This source (Source ID 104) consists of:

1. Six Engine Test Cells
2. A Diesel PM Generator (installed under RFD No. 3202)

Originally, all six (6) of the engine test cells were fueled by gasoline. Under RFD Nos. 15-A01-974 and 15-A01-1126, the Department approved converting three (3) units of the engine test cells to diesel fueled units.

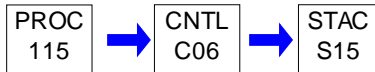
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 115

Source Name: DEVON II QC LAB SAMPLE EQUIPMENT

Source Capacity/Throughput:

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

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

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

(a) The permittee shall perform a stack test for the Dust Collector (Source ID C06) using the Department-approved procedures once every five (5) calendar years, where five calendar years is defined as beginning with the calendar year the latest stack test was performed and ending on December 31, five years later. Performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department. When testing of a source is required on a recurring basis, a single procedural protocol may be submitted for approval; thereafter, a letter referencing the previously approved procedural protocol is sufficient. However, if modifications are made to the process(es), if a different stack testing company is used, or if an applicable section of the stack testing manual has been revised since approval, a new protocol must be submitted for approval.

(b) At least ninety (90) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

(c) The stack test shall, at a minimum, test for the filtered Particulate Matter (PM). Tests shall be conducted in accordance with the provisions of EPA Methods 5 and 201 or other Department approved methodology and 25 Pa. Code Chapter 139.

(d) At least thirty (30) calendar days prior to the test(s), the Department shall be informed of the date and time of the test.

(e) Within sixty (60) days after the source test(s), two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

(f) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

The permittee shall monitor the pressure drop across the Dust Collector (Source ID C06) once per day, when Source ID C06 is in service.

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

- (a) The permittee shall record the pressure drop across the Dust Collector (Source ID C06) once per day, when Source ID C06 is operating.
- (b) The permittee shall maintain these records on site, in a format approved by the Department and shall make them available 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).

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

The permittee shall ensure that

- (a) a sufficient quantity of spare cartridge filters shall be kept on hand in order to immediately replace any cartridge filter requiring replacement.
- (b) the pressure drop across the Dust Collector (Source ID: C06) shall not exceed 6 inches (w.g).
- (c) the Dust Collector (Source ID C06) shall not be bypassed when the emission source is in operation.

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: 117

Source Name: POWDER HANDLING EQUIPMENT (SYSTEM I)

Source Capacity/Throughput: 300.000 Lbs/HR AUTOCATALYSTS

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

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

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

(a) The permittee shall perform a stack test for Camfil Farr Dust Collector (Source ID C08A1) using the Department-approved procedures once every five (5) calendar years, where five calendar years is defined as beginning with the calendar year the latest stack test was performed and ending on December 31, five years later. Performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department. When testing of a source is required on a recurring basis, a single procedural protocol may be submitted for approval; thereafter, a letter referencing the previously approved procedural protocol is sufficient. However, if modifications are made to the process(es), if a different stack testing company is used, or if an applicable section of the stack testing manual has been revised since approval, a new protocol must be submitted for approval.

(b) At least ninety (90) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

(c) The stack test shall, at a minimum, test for the filtered Particulate Matter (PM). Tests shall be conducted in accordance with the provisions of EPA Methods 5 and 201 or other Department approved methodology and 25 Pa. Code Chapter 139.

(d) At least thirty (30) calendar days prior to the test(s), the Department shall be informed of the date and time of the test.

(e) Within sixty (60) days after the source test(s), two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

(f) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.

(g) Documentation such as calculations or manufacturer specifications submitted to the Department may be used in lieu of a source test to demonstrate compliance with Condition #001, upon Department review and approval.

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

The permittee shall monitor the pressure drop across Source ID C08A1 once per day, when the Powder Handling Equipment (System I) (Source ID: 117) is operating, using Department approved equipment.

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

**SECTION D. Source Level Requirements**

For this source, the permittee shall monitor the amount of HAP containing material(s) processed monthly. [The HAP compounds are defined in 40 CFR Part 63 Subpart CCCCCC.]

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the pressure drop across Source ID C08A1, once per day when the Powder Handling Equipment (System I) (Source ID: 117) is operating.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

For this source, the permittee shall keep the following records:

- (a) the amount of HAP containing material(s) processed, monthly
- (b) SDS or CPDS of each HAP containing material.

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 §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

The permittee shall ensure that

- (a) Camfil Farr Dust Collector (Source ID C08A1) shall not be bypassed when the Powder Handling Equipment (System I) (Source ID: 117) is in service.
- (b) a sufficient quantity of spare cartridge filters (bags) shall be kept on hand in order to immediately replace any cartridge filter requiring replacement.
- (c) the pressure drop across Camfil Farr Dust Collector (Source ID C08A1) shall not exceed 7 inches (w.g).

VII. ADDITIONAL REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

This source and its associated control device (C08A1) are subject to 40 CFR Part 63 Subpart CCCCCC. The applicable requirements of this subpart are listed under Source ID 999.

Source ID C08A1 was installed in April 2016, under RFD No. 5534. It is a new dry control device pursuant to 40 CFR 63 Subpart CCCCCC.

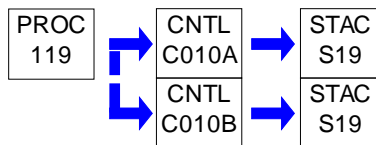
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 119

Source Name: POWDER HANDLING EQUIPMENT (DEVON II)

Source Capacity/Throughput: 300.000 Lbs/HR AUTOCATALYSTS

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

001 [25 Pa. Code §123.13]

Processes

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

II. TESTING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall perform a stack test using the Department-approved procedures once every five (5) calendar years, where five calendar years is defined as beginning with the calendar year the latest stack test was performed and ending on December 31, five years later. Performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department. When testing of a source is required on a recurring basis, a single procedural protocol may be submitted for approval; thereafter, a letter referencing the previously approved procedural protocol is sufficient. However, if modifications are made to the process(es), if a different stack testing company is used, or if an applicable section of this manual has been revised since approval, a new protocol must be submitted for approval.

(b) At least ninety (90) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

(c) The stack test shall, at a minimum, test for the filtered PM. Tests shall be conducted in accordance with the provisions of EPA Methods or other Department approved methodology and 25 Pa. Code Chapter 139.

(d) At least thirty (30) days prior to the test, the Regional Air Quality Manager, shall be informed of the date and time of the test.

(e) Within sixty (60) days after the source test(s), two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

(f) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.

III. MONITORING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the pressure drop across the two (2) Powder Handling Dust Collectors III and IV (Source ID(s): C010A and C010B) once per day, when the Powder Handling Equipment (Devon II) (Source ID: 119) is operating, using Department approved equipment.

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

For this source, the permittee shall monitor the amount of HAP containing material(s) processed monthly. [The HAP compounds are defined in 40 CFR Part 63 Subpart CCCCCC.]

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

The permittee shall record the pressure drop across the two (2) Powder Handling Dust Collectors III and IV (Source ID(s): C010A and C010B) once per day, when the Powder Handling Equipment (Devon II) (Source ID: 119) is operating.

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

For this source, the permittee shall keep the following records:

- (a) the amount of HAP containing material(s) processed, monthly
- (b) SDS or CPDS of each HAP containing material.

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 §127.441]****Operating permit terms and conditions.**

The permittee shall ensure that the two (2) Powder Handling Dust Collectors III and IV (Source ID(s): C010A and C010B) shall not be bypassed at any time the Powder Handling Equipment (Devon II) (Source ID: 119) is operated.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

The permittee shall ensure storage and handling of the material collected in the two (2) Powder Handling Dust Collectors III and IV (Source ID(s): C010A and C010B) shall not result in the emission of fugitive air contaminants in excess of the limitations specified in Conditions #001 and #002 of Section C (Site Level Requirements).

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

(a) The permittee shall keep on hand a sufficient quantity of spare cartridge filters in order to immediately replace any cartridge filter requiring replacement due to deterioration resulting from routine operation of the two (2) Powder Handling Dust Collectors III and IV (Source ID(s): C010A and C010B).

(b) The cartridge filters must meet manufacturer's specifications.

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

The permittee shall ensure that cleaning of the two (2) Powder Handling Dust Collectors III and IV (Source ID(s): C010A and C010B) shall initiate whenever the pressure drop reaches 4 inches (w.g).

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

**SECTION D. Source Level Requirements**

- (1) This source and its associated control devices (C010A and C010B) are subject to 40 CFR Part 63 Subpart CCCCCC. The applicable requirements of this subpart are listed under Source ID 999.
- (2) The exhaust flow to Source ID C010B (total flow: 5000 cfm) contains nickel compounds.
- (3) The exhaust flow to Source ID C010A is 3850 cfm.

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

**SECTION D. Source Level Requirements**

Source ID: 128

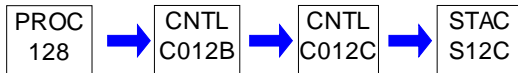
Source Name: LINE 7 COATING PROCESS (DEVON III)

Source Capacity/Throughput:

N/A

PRECIOUS METALS/CERAMIC C.

Conditions for this source occur in the following groups: GROUP 1

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

001 [25 Pa. Code §123.13]

Processes

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

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.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Line No. 7 Coating Process (Devon III) (Source ID: 128) consists of a coating line for processing nitrate-containing materials, two (2) dryers that include microwave technology, and one (1) calcination oven.

(b) Emissions from Source ID 128 are exhausted to an air pollution control system that includes a Selective Catalytic Reduction (SCR) system (Source ID: C012B), and an ammonia scrubber (Source ID: C012C) for removal of NO_x, VOC, acid gases, and ammonia.

**SECTION D. Source Level Requirements**

(c) Source ID 128 is subject to 25 Pa. Code §129.52d when coating metal parts. The applicable requirements of 25 Pa. Code §129.52d are presented in Source ID 998, of this Section.

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

**SECTION D. Source Level Requirements**

Source ID: 129

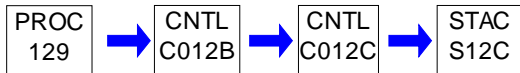
Source Name: LINE 10 COATING PROCESS (DEVON III)

Source Capacity/Throughput:

N/A

PRECIOUS METALS/CERAMICS

Conditions for this source occur in the following groups: GROUP 1

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

001 [25 Pa. Code §123.13]

Processes

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

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.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Line No. 10 Coating Process (Devon III) (Source ID: 129) consists of two (2) coating lines for processing nitrate-containing materials, three (3) dryers and an oven manufactured by Feco Engineered Systems.

(b) Emissions from this source are exhausted to an air pollution control system that includes a Selective Catalytic Reduction (SCR) system (Source ID: C012B), and an ammonia scrubber (Source ID: C012C) for removal of NOx, VOC, acidic gases, and ammonia.

**SECTION D. Source Level Requirements**

(c) Source ID 129 is subject to 25 Pa. Code §129.52d when coating metal parts. The applicable requirements of 25 Pa. Code §129.52d are presented under Source ID 998, of this Section.

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

**SECTION D. Source Level Requirements**

Source ID: 130

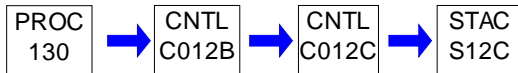
Source Name: LINE 11 COATING PROCESS (DEVON III)

Source Capacity/Throughput:

N/A

PRECIOUS METALS/CERAMICS

Conditions for this source occur in the following groups: GROUP 1

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

001 [25 Pa. Code §123.13]

Processes

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

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.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Line No. 11 Coating Process (Devon III) (Source ID: 130) consists of two (2) coating lines for processing nitrate-containing materials, two (2) dryers and an oven manufactured by Feco Engineered Systems.

(b) Emissions from this source are vented to an air pollution control system that includes a Selective Catalytic Reduction (SCR) system (Source ID: C012B), and an ammonia scrubber (Source ID: C012C) for removal of NOx, VOC, acidic gases, and ammonia.

**SECTION D. Source Level Requirements**

(c) Source ID 130 is subject to 25 Pa. Code §129.52d when coating metal parts. The applicable requirements of 25 Pa. Code §129.52d are presented under Source ID 998, of this Section.

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

**SECTION D. Source Level Requirements**

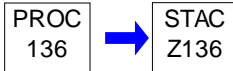
Source ID: 136

Source Name: LINE 14 2-STAGE DOSING STATION

Source Capacity/Throughput:

N/A

WASHCOATS

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

001 [25 Pa. Code §123.13]

Processes

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

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.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor, using a Department-approved method the nitrate content (as NO₃) of the coating or slurry (in "lb-nitrate per lb-coating slurry" units) on a per-batch basis.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain records, using a Department-approved method, of the nitrate content (as NO₃) of the coating or slurry (in "lb-nitrate per lb-coating slurry" units) for each batch.

(b) The permittee shall ensure that the following data is recorded for each batch:

- (1) Coating Type/ID Number/Product Description.
- (2) Usage of each coating, thinner, and solvent.
- (3) Solids, VOC and HAP content, as applied.
- (4) Formulation parameters.
- (5) Method of verification, which must be an EPA and DEP approved method.

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).

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

(a) Line 14 Process consists two parts:

- (1) Source ID 136: a two-stage dosing station (coating process). This source is subject to 25 Pa. Code §129.52d when coating metal parts. The applicable requirements are presented under Source ID 998, of this Section.
- (2) Source ID 203: a Drying & Calcining process with two (2) indexing linear dryers (drying ovens) and twelve (12) calcining ovens.

(b) The emissions from Line 14 Process (Source IDs 136 & 203) are vented to the following pollution control devices for NO_x, VOC, acidic gases, and ammonia removal:

- NO_x Scrubber (Source ID C017).
- Selective Catalytic Reduction system (SCR System, Source ID C020).
- Ammonia Scrubber (Source ID C018).

(c) The emission limitations for Line 14 Process are presented under Source ID 203.

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

**SECTION D. Source Level Requirements**

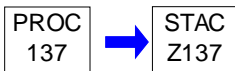
Source ID: 137

Source Name: LINE 15 2-STAGE DOSING STATION

Source Capacity/Throughput:

N/A

WASHCOATS

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

001 [25 Pa. Code §123.13]

Processes

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

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.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor, using a Department-approved method the nitrate content (as NO₃) of the coating or slurry (in "lb-nitrate per lb-coating slurry" units) on a per-batch basis.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall maintain records, using a Department-approved method, of the nitrate content (as NO₃) of the coating or slurry (in "lb-nitrate per lb-coating slurry" units) for each batch.

(b) The permittee shall ensure that the following data is recorded for each batch:

- (1) Coating Type/ID Number/Product Description.
- (2) Usage of each coating, thinner, and solvent.
- (3) Solids, VOC and HAP content, as applied.
- (4) Formulation parameters.
- (5) Method of verification, which must be an EPA and DEP approved method.

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).

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

(a) Line 15 Process consists two parts:

(1) Source ID 137: a two-stage dosing station (coating process). This source is subject to 25 Pa. Code §129.52d when coating metal parts. The applicable requirements are presented under Source ID 998 of this Section.

(2) Source ID 204: a Drying & Calcining process, including one (1) continuous electric drying oven, and one (1) electric drying and calcining oven.

(b) The emissions from Line 15 Process (Source IDs 137 and 204) are vented to the following pollution control devices for NO_x, VOC, acidic gases, and ammonia removal:

- Line 15 Selective Catalytic Reduction system (SCR System, Source ID C021).
- Line 15 Ammonia Scrubber (Source ID C019).

(c) The emission limitations for Line 15 Process are presented under Source ID 204.

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

The AZ Solid Machine exhaust (sampling oven exhaust) is combined with Source ID 137 exhaust before venting to the atmosphere.

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

**SECTION D. Source Level Requirements**

Source ID: 199

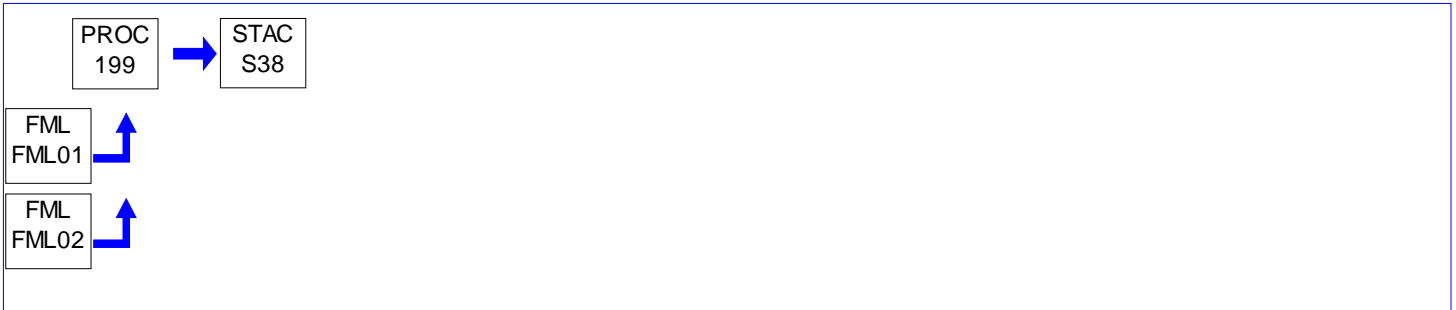
Source Name: 650-KW BACKUP DIESEL GENERATOR

Source Capacity/Throughput:

45.800 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: GROUP 3

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

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

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

The permittee shall ensure that the pollutant emissions from the 650-kW Backup Diesel Generator (Source ID: 199) shall not exceed the following limits:

Pollutant	Emissions (lbs/hr)	Emissions (gm/hp-hr)
Nitrogen Oxides (NOx)	11.34	6.9
Carbon Monoxide	1.96	

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

Visible emissions from this diesel engine stacks shall not exceed the following limitations:

- (a) Equal to or greater than 10% for a period or periods aggregating more than three (3) minutes in any one (1) hour; and
- (b) Equal to or greater than 30% at any time.

[Compliance with the above emission limitations assures compliance with 25 Pa. Code §123.41.]

Fuel Restriction(s).**# 004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6604]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What fuel requirements must I meet if I own or operate an existing stationary CI RICE?**

The permittee shall use diesel that meets the requirements of 40 CFR §80.510(b):

- (a) A sulfur content of 15 ppm maximum, and
- (b) A minimum cetane index of 40; or maximum aromatic content of 35% volume.

**SECTION D. Source Level Requirements****Operation Hours Restriction(s).****# 005 [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?**

Pursuant to 40 CFR 63.6640(f),

(a) maintenance checks and readiness testing for this source shall not exceed 100 hours per calendar year.

(b) non-emergency operation hours shall not exceed 50 hours per year, and are counted as part of the 100 hr/yr for maintenance and testing hours.

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

The permittee shall monitor the following, when the source is in operation:

- (a) Time and date of operation.
- (b) Duration of each operation.
- (c) Reasons in service, such as power outage, maintenance and testing.

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

For this source, the permittee shall maintain the following records:

- (a) date, starting and ending times, and reasons in services when it is in operation.
- (b) maintenance checks and readiness testing, non-emergency, emergency hours and total operating hours, monthly.
- (c) total operating hours monthly, as a 12-month rolling sum.
- (d) maintenance checks and readiness test hours and non-emergency hours per calendar year, annually.
- (e) NO_x emissions, monthly.
- (f) a copy of manufacturer's operating and maintenance specifications.

[Compliance with this condition assures compliance with 40 CFR §63.6655(f).]

008 [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) Pursuant to §40 CFR 63.6655, the permittee shall keep the following records for this source:

- (1) A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv).
- (2) Records of the occurrence and duration of each malfunction of operation.
- (3) Records of all required maintenance performed.
- (4) Records of actions taken during periods of malfunction to minimize emissions, including corrective actions to restore malfunctioning to its normal or usual manner of operation.

(b) Pursuance to §63.6660, the permittee shall keep each record for at least 5 years after the date of each occurrence,

**SECTION D. Source Level Requirements**

measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

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

The permittee is required to operate and maintain the 650-kW Backup Diesel Generator per manufacturer's instructions or owner-developed maintenance plan.

010 [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?**

For this source, the permittee shall comply with the requirements in Table 2d to this subpart:

- (i) Change the oil and the filter every 500 hours of operation or annually, whichever comes first;
- (ii) Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first,
- (iii) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first and replace as necessary.

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

This emergency generator was installed in 2006. The diesel engine is subject to the applicable requirements of §40 CFR 63, Subpart ZZZZ.

The permittee shall ensure that this generator (Source ID: 199) is only used in the event of primary power loss and for generator maintenance. It will allow the facility to continue operating the ovens, dryers and lighting, and the pollution control system until the oven equipment can be shut down safely.

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) The permittee shall operate the emergency stationary R.I.C.E. according to the requirements in the most recent version of 40 CFR Section 63.6640(f).
- (b) If the permittee does not operate the engine according to the requirements of 40 CFR Section 63.6640(f), the engine will not be considered an emergency engine under 40 CFR Part 63 Subpart ZZZZ and must meet all requirements for non-emergency engines.

**SECTION D. Source Level Requirements**

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

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

What records must I keep?

Pursuant §40 CFR 63.6655(f), the owner or operator of stationary RICE must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter.

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

**SECTION D. Source Level Requirements**

Source ID: 200A

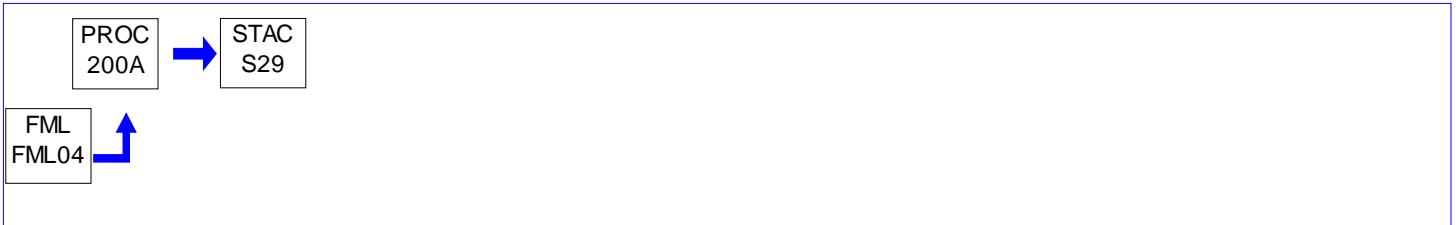
Source Name: 400-KW DIESEL EMERGENCY GENERATOR

Source Capacity/Throughput:

29.200 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: GROUP 3

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

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

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

The NOx emission from this source shall not exceed 6.9 gm/bp-hr.

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

Visible emissions from this diesel engine stacks shall not exceed the following limitations:

- (a) Equal to or greater than 10% for a period or periods aggregating more than three (3) minutes in any one (1) hour; and
- (b) Equal to or greater than 30% at any time.

[Compliance with the above emission limitations assures compliance with 25 Pa. Code §123.41.]

Fuel Restriction(s).**# 004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6604]****Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines****What fuel requirements must I meet if I own or operate an existing stationary CI RICE?**

The permittee shall use diesel that meets the requirements of 40 CFR §80.510(b):

- (a) A sulfur content of 15 ppm maximum, and
- (b) A minimum cetane index of 40; or maximum aromatic content of 35% volume.

[Compliance with the above emission limitations assures compliance with 25 Pa. Code §123.21.]

Operation Hours Restriction(s).**# 005 [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?**

Pursuant to 40 CFR 63.6640(f),

- (a) maintenance checks and readiness testing for this source shall not exceed 100 hours per calendar year.

**SECTION D. Source Level Requirements**

(b) non-emergency operation hours shall not exceed 50 hours per year, and are counted as part of the 100 hr/yr for maintenance and testing hours.

Throughput Restriction(s).

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

The permittee shall ensure that the annual fuel consumption of this source shall not exceed 1,464 gallons of fuel in a consecutive twelve (12) month 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) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

For this source, the permittee shall monitor the fuel consumption on a monthly basis.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following, when the source is in operation:

- (a) Time and date of operation.
- (b) Duration of each operation.
- (c) Reasons in service, such as power outage, maintenance and testing.

IV. RECORDKEEPING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

For this source, the permittee shall maintain records of the fuel consumption on a monthly basis.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

For this source, the permittee shall maintain the following records:

- (a) date, starting and ending times, and reasons in services when it is in operation.
- (b) maintenance checks and readiness testing, non-emergency, emergency hours and total operating hours, monthly.
- (c) total operating hours monthly, as a 12-month rolling sum.
- (d) maintenance checks and readiness test hours and non-emergency hours per calendar year, annually.
- (e) NOx emissions, monthly.
- (f) a copy of manufacturer's operating and maintenance specifications.

[Compliance with this condition assures compliance with 40 CFR §63.6655(f).]

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

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

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

This source shall only be used during electrical failures or to perform preventive maintenance, including periodic testing.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

The permittee shall maintain and operate this source in accordance with the manufacturer's specification and in a manner consistent with good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.**# 013 [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**

Pursuant §40 CFR 63.6603 and Table 2d of §40 CFR, Subpart ZZZZ, except during startup and shutdown, the owner or operator of an emergency, stationary CI RICE must,

- (i) Change the oil and the filter every 500 hours of operation or annually, whichever comes first;
- (ii) Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first,
- (iii) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first and replace as necessary.

014 [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) The permittee shall operate the emergency stationary R.I.C.E. according to the requirements in the most recent version of 40 CFR Section 63.6640(f).
- (b) If the permittee does not operate the engine according to the requirements of 40 C.F.R. Section 63.6640(f), the engine will not be considered an emergency engine under 40 CFR Part 63 Subpart ZZZZ and must meet all requirements for non-emergency engines.

015 [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) Pursuant to §40 CFR 63.6655, the permittee shall keep the following records for this source:

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

**SECTION D. Source Level Requirements**

- (2) Records of the occurrence and duration of each malfunction of operation.
- (3) Records of all required maintenance performed.
- (4) Records of actions taken during periods of malfunction to minimize emissions, including corrective actions to restore malfunctioning to its normal or usual manner of operation.

(b) Pursuance to §63.6660, the permittee shall keep each record for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

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

**SECTION D. Source Level Requirements**

Source ID: 203

Source Name: LINE 14 DRYING & CALCINING

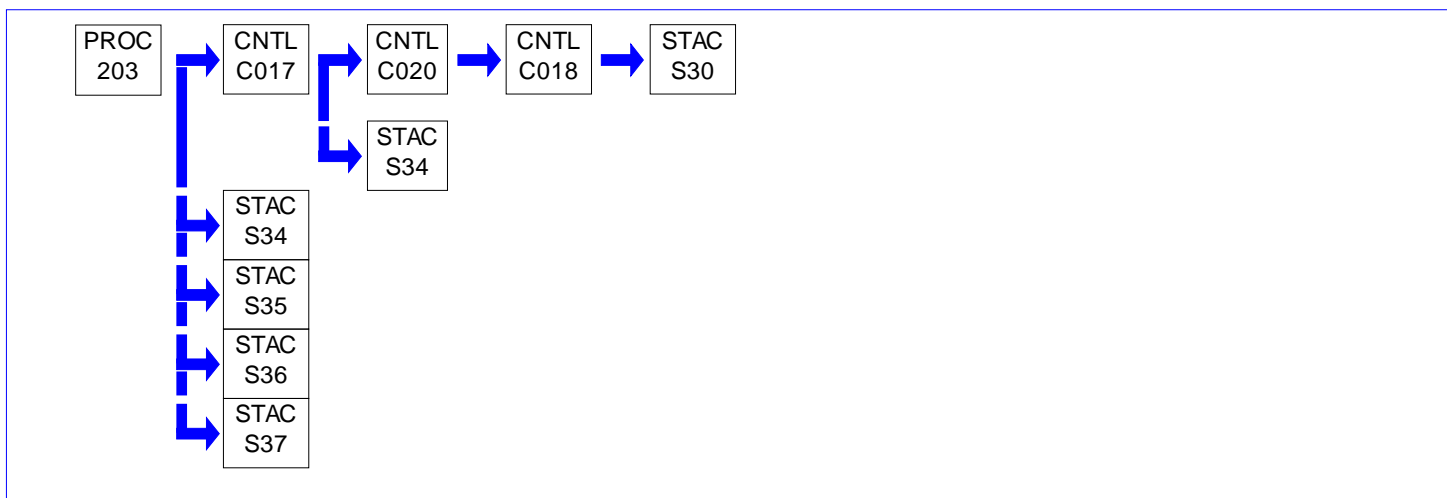
Source Capacity/Throughput:

N/A

SUBSTRATE W/ CATALYTIC COA

N/A

SUBSTRATE W/CATALYTIC COA*



This source occurs in alternate operation LINE14 EXHAUST VENTING TO L15 SYSTEM

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

The total aggregate post-control pollutant emissions from Source ID 203 shall not exceed the following limits:

Nitrogen Oxides (NOx): 13.4 lb/hr

Nitrogen Oxides (NOx): 11.0 tons/yr, as a 12-month rolling sum

Volatile Organic Compounds (VOC): 1.1 lb/hr as methane

Volatile Organic Compounds (VOC): 2.5 tons/yr, as a 12-month rolling sum

Ammonia (NH3): 10 ppmvd

Control Device Efficiency Restriction(s).**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The Pollution Control System for this source shall achieve the following standards:

(a) NOx: overall 90% removal efficiency (or, equal to or less than 13.4 lb/hr).

(b) VOC: overall 90% removal efficiency, or, 20 ppmvd VOC or less as methane.

(c) Ammonia: 10 ppmvd or less.

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

The permittee shall track the pre-control hourly NO_x and VOC emissions from Line 14 Drying and Calcining (Source ID: 203) using a Department-approved method, and shall monitor the following:

- (i) Coating and Product ID for each coating and product.
- (ii) Nitrate content of each coating or slurry used.
- (iii) Amount of coating or slurry used per hour or per part, as applicable.
- (iv) Amount of parts coated per hour or operating hours per day.

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

(a) The permittee shall calculate and maintain records of the pre-control hourly NO_x and VOC emissions (in lb/hr) for each batch used on Line 14 Drying and Calcining (Source ID: 203). The required records shall include the following:

- (i) Coating and Product ID for each coating and product
- (ii) Nitrate content of each coating or slurry used
- (iii) Amount of coating or slurry used per hour or per part, as applicable
- (iv) Amount of parts coated per hour or operating hours per day

(b) The permittee shall calculate and maintain the post-control NO_x and VOC emissions [in lb/hr and ton/yr (as a 12-month rolling sum)], to demonstrate compliance with Condition #001 under this source.

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

(a) Emissions from an individual drying oven are not required to be treated in the Line 14 NO_x and Ammonia scrubbers when the Line 14 SCR System operates under the following conditions:

- (1) During process upset conditions or malfunctions, to allow for the safe and systematic shutdown of equipment.
- (2) Power failures.
- (3) Pre-control NO_x emissions do not exceed 13.4 lb/hr and pre-control VOC emissions do not exceed 1.1 lb/hr.

(b) The permittee shall record the following for each event when the emissions are directly vented into atmosphere (without treatment):

- (1) Time, date, and duration
- (2) Reasons
- (3) NO_x and VOC emission rate (lb/hr)

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

(a) Line 14 Drying & Calcining (Source ID: 203) consists of the following equipment:

- (i) Two (2) indexing linear dryers (two Drying Oven)

**SECTION D. Source Level Requirements**

(ii) Twelve (12) Calcining Ovens.

(b) Under normal operating conditions, the pollution control system flow diagram is as follows:

- (i) the Calcining Oven exhaust is first treated in NOx Scrubber (C017), and then combined with the Drying Oven exhaust.
- (ii) the combined exhaust flows to SCR System (C020), and to Ammonia Scrubber (C018).

(c) The permittee may operate this source using the alternative operating schedule, as specified in Section E of the Operating Permit.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall ensure that the Line 14 dryers and ovens exhaust stacks will be fitted with normally open dampers that will fail in the open position if the dampers fail and will be programmed to open in the event of a control system malfunction that will allow the hot gases to be discharged to the atmosphere while the coating lines and ovens undergo a systematic shutdown.

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

**SECTION D. Source Level Requirements**

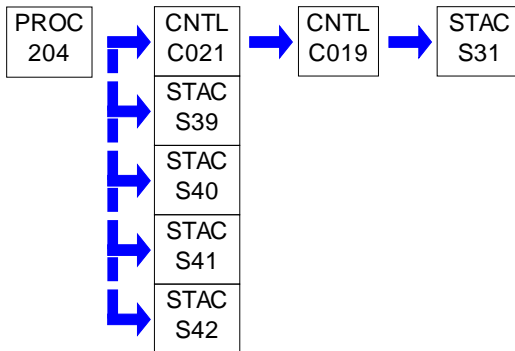
Source ID: 204

Source Name: LINE 15 DRYING & CALCINING

Source Capacity/Throughput:

N/A

SUBSTRATE W/ CATALYTIC COA

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

The total aggregate post-control pollutant emissions from Source ID 204 shall not exceed the following limits:

Nitrogen Oxides (NO_x): 13.4 lb/hr

Nitrogen Oxides (NO_x): 11.0 tons/yr, as a 12-month rolling sum

Volatile Organic Compounds (VOC): 1.1 lb/hr as methane

Volatile Organic Compounds (VOC): 2.5 tons/yr, as a 12-month rolling sum

Ammonia (NH₃): 10 ppmvd

Control Device Efficiency Restriction(s).**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The Pollution Control System for this source shall achieve the following standards:

(a) NO_x: overall 90% removal efficiency (or, equal to or less than 13.4 lb/hr).

(b) VOC: overall 90% removal efficiency, or, 20 ppmvd VOC or less as methane.

(c) Ammonia: 10 ppmvd or less.

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 permittee shall track the pre-control hourly NO_x and VOC emissions (in lb/hr) from this source using a Department-approved method, and shall monitor the following:

(i) Coating and Product ID for each coating and product.

**SECTION D. Source Level Requirements**

- (ii) Nitrate content of each coating or slurry used.
- (iii) Amount of coating or slurry used per hour or per part, as applicable.
- (iv) Amount of parts coated per hour or operating hours per day.

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

(a) The permittee shall calculate and maintain records of the pre-control hourly NO_x and VOC emissions (in lb/hr) for this source. The required records shall include the following:

- (i) Coating and Product ID for each coating and product
- (ii) Nitrate content of each coating or slurry used
- (iii) Amount of coating or slurry used per hour or per part, as applicable
- (iv) Amount of parts coated per hour or operating hours per day.

(b) The permittee shall calculate and maintain records of the post-control NO_x and VOC emissions [in lb/hr and ton/yr (as a 12-month rolling sum)], to demonstrate compliance with Condition #001 under this source.

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

(a) Under the following conditions, the exhaust from this source is not required to be treated in the pollution control system:

- (1) During process upset conditions or malfunctions, to allow for the safe and systematic shutdown of equipment.
- (2) Power failures.
- (3) Pre-control NO_x emissions do not exceed 13.4 lb/hr and pre-control VOC emissions do not exceed 1.1 lb/hr.

(b) The permittee shall record the following for each event when the emissions are directly vented into atmosphere (without treatment):

- (1) Time, date, and duration
- (2) Reasons
- (3) NO_x and VOC emission rate (lb/hr)

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

The permittee shall ensure that the Line 15 dryer and oven exhaust stacks will be fitted with normally open dampers that will fail in the open position if the dampers fail and will be programmed to open in the event of a control system malfunction that allows the hot gases to be discharged to the atmosphere while the coating lines and ovens undergo a systematic shutdown.

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

Line 15 Drying & Calcining (Source ID: 204) consists of the following equipment:

**SECTION D. Source Level Requirements**

- (i) Two (2) air knife stabilizers;
- (ii) One (1) continuous electric, drying oven;
- (iii) One (1) electric, drying & calcining oven.

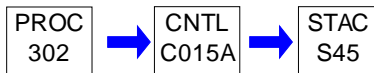
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 302

Source Name: WASHCOAT BLENDING TANKS

Source Capacity/Throughput: 2,000.000 Gal/HR WASHCOAT

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

No person may permit the emission into the outdoor atmosphere of particulate matter (filterable PM10) from this source in excess of 0.02 gr/dscf.

[Compliance with this streamlined permit condition will assure compliance with 25 Pa. Code §123.13(c)(1)(i).]

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.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the amount of powder or coating added, in pounds or gallons, to the Washcoat Blending Tanks (Source ID: 302) on a monthly and annual basis.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of the amount of powder or coating added, in pounds or gallons, to the Washcoat Blending Tanks (Source ID: 302) on a monthly and annual basis.

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 §127.441]

Operating permit terms and conditions.

The permittee shall ensure that the hinged covers for the Washcoat Blending Tanks (Source ID: 302) are closed whenever a mixing operation is being conducted and no additional material is being added.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall ensure that during powder addition, the control device (i.e., dust collector) shall not be bypassed at any time while the Washcoat Blending Tanks (Source ID: 302) are being operated.

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

The Washcoat Blending Tanks (Source ID: 302) consist of the following equipment. The following tanks vent to C015A:

T-1409: 2000 gal

T-1410: 1000 gal

T-1411: 2000 gal

T-1412: 2000 gal

T-1413: 2000 gal

T-1414: 1000 gal

T-1415: 2000 gal

T-1416: 2000 gal

T-1417: 500 gal

T-1418: 500 gal

T-1419: 2000 gal

T-1420: 1000 gal

T-1505: 1000 gal

T-1506: 2000 gal

T-1507: 2000 gal

T-1508: 2000 gal

T-1509: 1000 gal

T-1510: 1000 gal

T-1511: 2000 gal

T-1512: 2000 gal

S101: 1000 gal

S102: 1000 gal

and two extractions trunks typically used for a scale and a portable vessel "MT" (250 gal).

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

**SECTION D. Source Level Requirements**

Source ID: 732

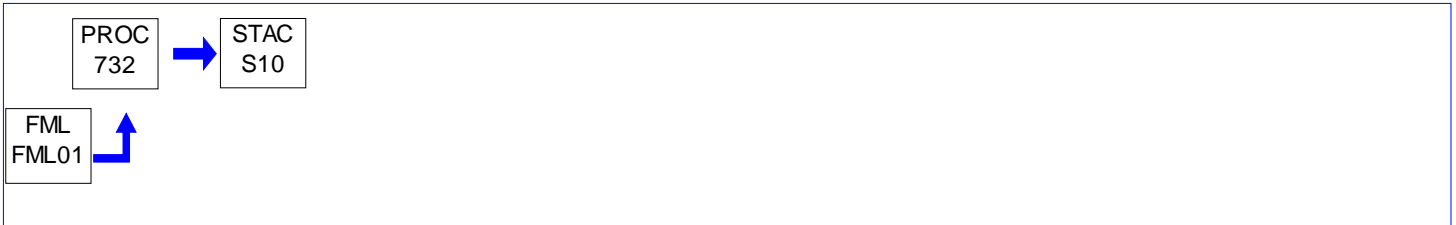
Source Name: EMERGENCY GENERATOR (DETROIT 650 KW)

Source Capacity/Throughput:

65.000 Gal/HR

Diesel Fuel

Conditions for this source occur in the following groups: GROUP 3

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

001 [25 Pa. Code §123.13]

Processes

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

Fuel Restriction(s).

002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6604]

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**What fuel requirements must I meet if I own or operate an existing stationary CI RICE?**

The permittee shall use diesel that meets the requirements of 40 CFR §80.510(b):

- (a) A sulfur content of 15 ppm maximum, and
- (b) A minimum cetane index of 40; or maximum aromatic content of 35% volume.

[Compliance with this permit condition assures compliance with 25 Pa. Code §123.21.]

Operation Hours Restriction(s).

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 129.93(c)(5).]

The permittee shall operate this emergency generator less than 500 hours in any twelve (12) consecutive months.

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

Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?**

Pursuant to 40 CFR 63.6640(f),

- (a) maintenance checks and readiness testing for this source shall not exceed 100 hours per calendar year.
- (b) non-emergency operation hours shall not exceed 50 hours per year, and are counted as part of the 100 hr/yr for maintenance and testing hours.

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

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

(a) For this source, the permittee shall monitor:

- (1) the amount of diesel fuel used on a monthly basis.
- (2) the time of operation when the engine is in service.

(b) The permittee shall track the NO_x emissions for this source, using manufacturer's data or the emission factors specified below, on a monthly basis and as a 12-month rolling sum.

(i) NO_x emission factors for large internal combustion units with rated capacity greater than 600 hp: 0.024 lb/hp-hr power output or 3.2 lb/MMBtu fuel input.*

[*Source: AP-42, Table 3.4-1, Gaseous Emission Factors for Large Stationary Diesel and All Stationary Dual-Fuel Engines, U.S. EPA, October 1996].

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

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

(a) For this source, the permittee shall calculate and maintain records of NO_x emissions, based on fuel throughputs, approved EPA emission factors, manufacturer specifications, or other Department-approved methodology.

(b) For this source, the permittee shall record:

- (1) operating hours of each operation, and reason(s) for operation. If the engine is used for the purposes specified in §§40 CFR 63.6640(f)(2)(ii) or (iii) or §40 CFR 63.6640(f)(4)(ii), the permittee must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.
- (2) total operating hours, calculated monthly as a 12-month rolling sum.
- (3) maintenance records, i.e., routine/preventative maintenance, repairs, changing oil and inspection, etc.

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 §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.93(c)(5).]

Compliance with the NO_x RACT for the Emergency Generator (Detroit) (Source ID: 732) shall be maintenance and operation of the unit in accordance with manufacturer's specifications and good air pollution control practices.

**SECTION D. Source Level Requirements****# 008 [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) The permittee shall operate the emergency stationary R.I.C.E. according to the requirements in the most recent version of 40 CFR Section 63.6640(f).

(b) If the permittee does not operate the engine according to the requirements of 40 C.F.R. Section 63.6640(f), the engine will not be considered an emergency engine under 40 CFR Part 63 Subpart ZZZZ and must meet all requirements for non-emergency engines.

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

The source, installed in 1993, is subject to the applicable requirements of §40 CFR 63, Subpart ZZZZ.

010 [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**

Pursuant §40 CFR 63.6603 and Table 2d of §40 CFR, Subpart ZZZZ, except during startup and shutdown, the owner or operator of an emergency, stationary CI RICE must,

- (i) Change the oil and the filter every 500 hours of operation or annually, whichever comes first;
- (ii) Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first,
- (iii) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first and replace as necessary.

011 [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?**

Pursuant 40 CFR 63.6655(f), the permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter.

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

**SECTION D. Source Level Requirements**

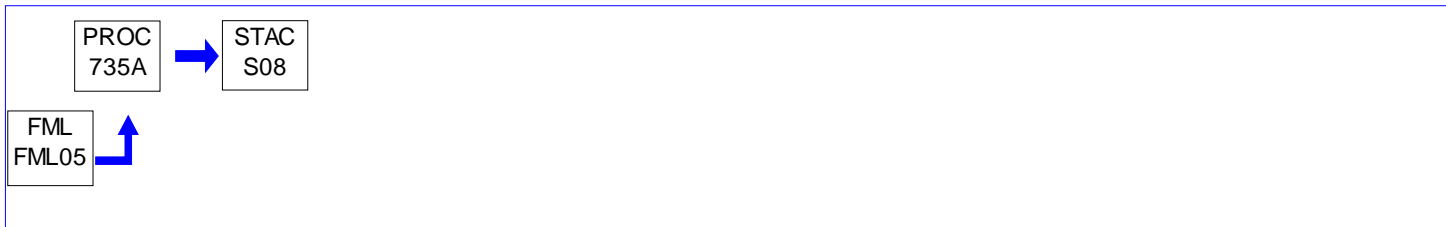
Source ID: 735A

Source Name: GAS FIRED HEATERS

Source Capacity/Throughput:

5.500 MCF/HR

Natural Gas

**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.

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall ensure that only natural gas is burned in the Gas Fired Heaters (Source ID: 735A).

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 permittee shall monitor the total amount of natural gas combusted at the Gas Fired Heaters (Source ID: 735A) monthly using a Department approved method.

IV. RECORDKEEPING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the total amount of natural gas combusted by the Gas Fired Heaters (Source ID: 735A) monthly using a Department approved method.

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.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code §127.512(h).]

**SECTION D. Source Level Requirements**

The permittee shall ensure that the Gas Fired Heaters (Source ID: 735A) shall be maintained and operated 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).

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

**SECTION D. Source Level Requirements**

Source ID: 998

Source Name: 25 PA 129.52D METAL SURFACE COATING

Source Capacity/Throughput:

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §129.52d]****Control of VOC emissions from miscellaneous metal parts surface coating processes, miscellaneous plastic parts surf**

§129.52d(d) - Emission Limitations

§129.52d(d)(1)

The VOC content of each miscellaneous metal part coating or each miscellaneous plastic part coating, as applied, excluding water and exempt compounds, shall be equal to or less than the VOC content limit for the applicable coating category specified in the applicable table of VOC content limits in Tables I.

§129.52d(d)(4) -) Least restrictive VOC limit

If more than one VOC content limit or VOC emission rate limit applies to a specific coating, then the least restrictive VOC content limit or VOC emission rate limit applies.

§129.52d(d)(5) - Coatings not listed in Table I

For a coating that does not meet the coating categories listed in Table I, the VOC content limit or VOC emission rate limit shall be determined by classifying the coating as a general one component coating or general multicomponent coating. The corresponding general one component coating or general multicomponent coating limit applies.

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.**# 002 [25 Pa. Code §129.52d]****Control of VOC emissions from miscellaneous metal parts surface coating processes, miscellaneous plastic parts surface coating processes and pleasure craft surface coatings.**

§129.52d(k) - Measurements and calculations.

To determine the properties of a coating or component used in a miscellaneous metal parts surface coating process, measurements and calculations shall be performed according to one or more of the following:

(1) EPA Reference Method 24, Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Surface Coatings, found at 40 CFR Part 60, Subpart D, Appendix A, including updates and revisions.

(2) Manufacturer's formulation data.

(3) Sampling and testing done in accordance with the procedures and test methods specified in Chapter 139.

(4) Other test method demonstrated to provide results that are acceptable for purposes of determining compliance with this section if prior approval is obtained in writing from the Department.

(5) Add-on air pollution control devices shall be equipped with the applicable monitoring equipment according to manufacturers' specifications. The monitoring equipment shall be installed, calibrated, operated and maintained according to manufacturers' specifications at all times the add-on air pollution control device is in use.

(6) EPA calculations information in the following:

(i) A Guideline for Surface Coating Calculations, EPA-340/1-86-016, including updates and revisions.

(ii) Procedures for Certifying Quantity of Volatile Organic Compounds Emitted by Paint, Ink, and Other Coatings, EPA-

**SECTION D. Source Level Requirements**

450/3-84-019, including updates and revisions.

003 [25 Pa. Code §129.52d]

Control of VOC emissions from miscellaneous metal parts surface coating processes, miscellaneous plastic parts surface coating processes and pleasure craft surface coatings.

§129.52d(e) - Compliance and monitoring requirements

The permittee shall comply with the applicable requirements as specified throughout §129.52d.

IV. RECORDKEEPING REQUIREMENTS.**# 004 [25 Pa. Code §129.52d]**

Control of VOC emissions from miscellaneous metal parts surface coating processes, miscellaneous plastic parts surface coating processes and pleasure craft surface coatings.

§129.52d(f): Recordkeeping and reporting requirements.

(1) The permittee shall maintain monthly records sufficient to demonstrate compliance with this section. The records must include the following information:

(i) The following parameters for each coating, thinner, component and cleaning solvent as supplied:

- (A) Name and identification number of the coating, thinner, other component or cleaning solvent.
- (B) Volume used.
- (C) Mix ratio.
- (D) Density or specific gravity.
- (E) Weight percent of total volatiles, water, solids and exempt solvents.
- (F) Volume percent of total volatiles, water and exempt solvents for the applicable table of limits in Tables I—V.
- (G) Volume percent of solids for the applicable table of limits in Tables VI—IX.

(ii) The VOC content of each coating, thinner, other component and cleaning solvent as supplied.

(iii) The VOC content of each as applied coating or cleaning solvent.

(iv) The calculations performed for each applicable requirement under subsections (d) and (e).

(v) The information required in a plan approval issued under subsection (e)(2).

(2) The records shall be submitted to the Department in an acceptable format upon receipt of a written request from the Department.

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.**# 005 [25 Pa. Code §129.52d]**

Control of VOC emissions from miscellaneous metal parts surface coating processes, miscellaneous plastic parts surface coating processes and pleasure craft surface coatings.

§129.52d(g) - Coating application methods.

The permittee may not cause or permit the emission into the outdoor atmosphere of VOCs from a miscellaneous metal part

**SECTION D. Source Level Requirements**

coating unit, unless the coatings are applied using one or more of the following coating application methods:

- (1) Electrostatic coating.
- (2) Flow coating.
- (3) Dip coating, including electrodeposition.
- (4) Roll coating.
- (5) High volume-low pressure (HVLP) spray coating.
- (6) Airless spray coating.
- (7) Air-assisted airless spray coating.
- (8) Other coating application method if approved in writing by the Department prior to use.

006 [25 Pa. Code §129.52d]**Control of VOC emissions from miscellaneous metal parts surface coating processes, miscellaneous plastic parts surface coating processes and pleasure craft surface coatings.**

§129.52d(i) - Work practice requirements for coating-related activities.

The permittee shall comply with the following work practices for coating-related activities:

- (1) Store all VOC-containing coatings, thinners or coating-related waste materials in closed containers.
- (2) Ensure that mixing and storage containers used for VOC-containing coatings, thinners or coating-related waste materials are kept closed at all times, except when depositing or removing these coatings, thinners or waste materials.
- (3) Minimize spills of VOC-containing coatings, thinners or coating-related waste materials and clean up spills immediately.
- (4) Convey VOC-containing coatings, thinners or coating-related waste materials from one location to another in closed containers or pipes.

007 [25 Pa. Code §129.52d]**Control of VOC emissions from miscellaneous metal parts surface coating processes, miscellaneous plastic parts surface coating processes and pleasure craft surface coatings.**

§129.52d(j) - Work practice requirements for cleaning materials.

The permittee shall comply with the following work practices for cleaning materials:

- (1) Store all VOC-containing cleaning materials and used shop towels in closed containers.
- (2) Ensure that mixing vessels and storage containers used for VOC-containing cleaning materials are kept closed at all times except when depositing or removing these materials.
- (3) Minimize spills of VOC-containing cleaning materials and clean up spills immediately.
- (4) Convey VOC-containing cleaning materials from one location to another in closed containers or pipes.
- (5) Minimize VOC emissions from cleaning of application, storage, mixing or conveying equipment by ensuring that equipment cleaning is performed without atomizing the cleaning solvent and all spent solvent is captured in closed containers.

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

The following sources are subject to 25 Pa. Code §129.52d:

**SECTION D. Source Level Requirements**

- * Source ID 103 - Devon I Production Area
- * Source ID 128 - Line 7 Coating Process
- * Source ID 129 - Line 10 Coating Process
- * Source ID 130 - Line 11 Coating Process
- * Source ID 136 - Line 14 (2-stage dosing station)
- * Source ID 137 - Line 15 (2-stage dosing station)

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

**SECTION D. Source Level Requirements**

Source ID: 999

Source Name: §40 CFR 63, SUBPART CCCCCC

Source Capacity/Throughput:

N/A

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

**# 001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart CCCCCC § 63.11601]
SUBPART CCCCCC - National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing**

What are the standards for new and existing paints and allied products manufacturing facilities?

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

The permittee shall ensure that the visible emissions to the atmosphere shall not exceed 10-percent opacity.

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.

**# 002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart CCCCCC § 63.11602]
SUBPART CCCCCC - National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing**

What are the performance test and compliance requirements for new and existing sources?

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

The permittee shall record the following for each inspection and testing activity.

- (i) The date, place, and time.
- (ii) Person conducting the activity.
- (iii) Technique or method used.
- (iv) Operating conditions during the activity.
- (v) The results.
- (vi) Description of correction actions taken.

V. REPORTING REQUIREMENTS.

**# 003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart CCCCCC § 63.11603]
SUBPART CCCCCC - National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing**

What are the notification, reporting, and recordkeeping requirements?

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

The permittee shall submit the notifications required in §40 CFR 63.11603.

- (a) Notification of Compliance Status. If a source becomes an affected source in accordance with §40 CFR 63.11599(b)(3) after the applicable compliance date in §40 CFR 63.11600(a) or (b), the permittee shall submit a Notification of Compliance Status within 180 days of the date of processing, using, or generating materials containing HAP, as defined in §40 CFR

**SECTION D. Source Level Requirements**

63.11607. The Notification of Compliance Status shall include the information as specified below:

(i) company's name and address.

(ii) A statement by a responsible official with that official's name, title, phone number, e-mail address and signature, certifying the truth, accuracy, and completeness of the notification, a description of the method of compliance and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart.

(b) Annual Compliance Certification Report. The permittee shall prepare an annual compliance certification report according to the requirements in §40 CFR 63.11603(b)(1) through (b)(3) in paragraphs (i) through (iii). This report does not need to be submitted unless a deviation from the requirements of this subpart has occurred. When a deviation from the requirements of this subpart has occurred, the annual compliance certification report must be submitted along with the deviation report.

(i) The first annual compliance certification report must cover the first annual reporting period which begins the day of the compliance date and ends on December 31.

(ii) Each subsequent annual compliance certification report must cover the annual reporting period from January 1 through December 31.

(iii) Each annual compliance certification report must be prepared no later than January 31 and kept in a readily accessible location for inspector review. If a deviation has occurred during the year, each annual compliance certification report must be submitted along with the deviation report, and postmarked no later than February 15.

(c) Deviation Report. If a deviation has occurred during the reporting period, the permittee shall include a description of deviations from the applicable requirements, the time periods during which the deviations occurred, and the corrective actions taken. This deviation report must be submitted along with the annual compliance certification report.

(d) Records. The permittee shall maintain the records specified in §40 CFR 63.11603(c)(1) through (4) and in accordance with §40 CFR 63.11603(c)(5) through (6), for five years after the date of each recorded action.

VI. WORK PRACTICE REQUIREMENTS.

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart CCCCCC § 63.11601]

SUBPART CCCCCC - National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing

What are the standards for new and existing paints and allied products manufacturing facilities?

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

Pursuant to §63.11601(a)(1), the permittee shall operate a capture system that minimizes fugitive particulate emissions during the addition of dry pigments and solids that contain compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling process.

Pursuant to §63.11601(a)(2), the permittee shall capture particulate emissions and route them to a particulate control device meeting the emission standard, specified in Condition #001 under this source. This requirement does not apply to pigments and other solids that are in paste, slurry, or liquid form.

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart CCCCCC § 63.11602]

SUBPART CCCCCC - National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing

What are the performance test and compliance requirements for new and existing sources?

(a) Initial particulate control device inspections and tests [§63.11602(a)(1)]

For each new and existing affected source, the permittee shall demonstrate initial compliance by conducting an initial inspection and a visible emission test according to §63.11602(a)(1). The permittee shall conduct each inspection no later than 180 days after the permittee applicable compliance date for each control device which has been operated within 60

**SECTION D. Source Level Requirements**

days following the compliance date.

- (1) The permittee shall visually inspect the system ductwork and dry particulate control unit for leaks. The permittee shall also inspect the inside of each dry particulate control unit for structural integrity and condition.
- (2) An initial inspection of the internal components of a particulate control system is not required if there is a record that an inspection meeting the requirements of this subsection has been performed within the past 12 months and any maintenance actions have been resolved.
- (3) The permittee shall conduct a visible emission test consisting of three 1-minute test runs using Method 203C (40 CFR part 51, appendix M). The visible emission test runs shall be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling equipment. If the average test results of the visible emissions test runs indicate an opacity greater than the applicable limitation in §63.11601(a), the permittee shall take corrective action and retest within 15 days.

(b) Ongoing particulate control device inspections and tests [§63.11602(a)(2)]

Following the initial compliance demonstration, the permittee shall perform periodic inspections according to the following requirements:

- (1) The permittee shall inspect and maintain each particulate control unit:
 - (i) conducting weekly visual inspections of any flexible ductwork for leaks.
 - (ii) conducting inspections of the rigid, stationary ductwork for leaks, and the interior of the dry particulate control unit for structural integrity and to determine the condition of the fabric filter (if applicable) every 12 months.
- (2) The permittee shall conduct a 5-minute visual determination of emissions from the particulate control device every 3 months using Method 22. The visible emission test shall be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling equipment. If visible emissions are observed for two minutes of the required 5-minute observation period, the permittee shall conduct a Method 203C test within 15 days of the time when visible emissions were observed. The Method 203C test will consist of three 1-minute test runs and shall be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel HAP to a process vessel or to the grinding and milling equipment. If the Method 203C test runs indicates an opacity greater than the limitation in §63.11601(a)(5), the permittee shall comply with the following requirements:
 - (i) taking corrective action and retesting using Method 203C within 15 days. The Method 203C test consists of three 1-minute test runs and shall be performed during the addition of dry pigments and solids containing compounds of cadmium, chromium, lead, or nickel to a process vessel or to the grinding and milling equipment. The permittee shall continue to take corrective action and retest each 15 days until a Method 203C test indicates an opacity equal to or less than the limitation in §63.11601(a)(5).
 - (ii) Preparing a deviation report in accordance with §63.11603(b)(3) for each instance in which the Method 203C opacity results were greater than the limitation in §63.11601(a)(5).
 - (iii) Resuming the visible determinations of emissions from the particulate control device in accordance with paragraph (b)(2) 3 months after the previous visible determination.

VII. ADDITIONAL REQUIREMENTS.

**# 006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR Subpart CCCCCC § 63.11601]
SUBPART CCCCCC - National Emission Standards for Hazardous Air Pollutants for Area Sources: Paints and Allied Products Manufacturing**

What are the standards for new and existing paints and allied products manufacturing facilities?

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

The following sources are subject to the provisions of 40 CFR 63, Subpart CCCCCC:

**SECTION D. Source Level Requirements**

- Source IDs 117 and C08A1
- Source IDs 119, C010A and C010B

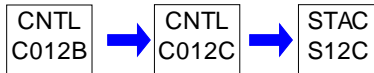
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: C012B

Source Name: SCR SYSTEM (DEVON III)

Source Capacity/Throughput: 250.000 Tons/HR NAOH SOLUTION

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

(a) The process exhausts from Devon I Production Area and Coating Line Nos. 7, 10, 11 (Source IDs: 103, 128, 129 and 130) are exhausted to the following emission control system for NO_x, VOC, acid gases, and ammonia removal:

- (1) A Selective Catalytic Reduction (SCR) unit (Source ID: C012B), and followed by
- (2) An Ammonia Scrubber (Source ID: C012C)

(b) The pollution control system above shall achieve:

- (1) overall NO_x removal efficiency: equal to or greater than 90% on a mass basis (or, the combined NO_x emissions equal to or less than 2.6 lb/hr).
- (2) overall VOC removal efficiency: equal to or greater than 90% on a mass basis, or less than 20 ppmvd VOC as methane, at the discharging point (S12C).

(c) Ammonia (Anhydrous) concentration at the stack discharging point (S12C) shall be equal to or less than 10.00 ppmvd.

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

(a) The permittee shall perform a source test for the pollution control system (comprised of Source ID(s): C012B and C012C) using the Department-approved procedures once every five (5) calendar years, where five calendar years is defined as beginning with the calendar year the latest stack test was performed and ending on December 31, five years later. Performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department. When testing of a source is required on a recurring basis, a single procedural protocol may be submitted for approval; thereafter, a letter referencing the previously approved procedural protocol is sufficient. However, if modifications are made to the process(es), if a different stack testing company is used, or if an applicable section of this manual has been revised since approval, a new protocol must be submitted for approval.

(b) At least ninety (90) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

(c) The stack test shall, at a minimum, test for NO_x and VOC removal efficiency, and NO_x, VOC and ammonia concentrations at discharging point. Tests shall be conducted in accordance with the provisions of EPA Methods or other Department approved methodology and 25 Pa. Code Chapter 139.

(d) At least thirty (30) days prior to the test, the Regional Air Quality Manager, shall be informed of the date and time of the test.

(e) Within sixty (60) days after the source test(s), two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

**SECTION D. Source Level Requirements**

(f) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.

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

[Additional authority for this permit condition is also derived from §§40 CFR 64.6 and 64.3.]

The permittee shall use the following approved process parameters to obtain data and monitor the emission control equipment performance:

- (i) the air flow rate to the gas stream;
- (ii) the inlet operating temperature to the SCR oxidation and catalyst beds.

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

[Additional authority for this permit condition is also derived from §§40 CFR 64.6 and 64.3.]

The permittee shall use the following approved means or devices to measure the applicable process parameters:

- (i) the air flow rate to the SCR using a Kurtz Mass Flow element or equivalent. The minimum accuracy of the device is plus (+) or minus (-) 0.25% between -40°C to 125° C.
- (ii) the temperature measured at the inlet of the SCR oxidation and catalyst beds using a K-type thermocouple or equivalent. The minimum accuracy of the device is plus (+) or minus (-) 3.2°C @ 800°C.

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

[Additional authority for this permit condition is also derived from §§40 CFR 64.3 and 64.6.]

The permittee shall use the approved frequency below for monitoring of the applicable process parameters:

- (i) the inlet temperature to the SCR oxidation and catalyst beds shall be monitored daily, when operating; it may be monitored up to three (3) times per day, but no more than once per shift;
- (ii) the air flow rate to the SCR gas stream shall be monitored daily, when operating; it may be monitored up to three (3) times per day, but no more than once per shift.

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

[Additional authority for this permit condition is also derived from §40 CFR64.3.]

The permittee shall use the following approved period over which discrete data points for the approved process parameters will be collected and averaged for the purpose of determining an excursion:

- (i) the inlet temperature to the SCR oxidation and catalyst beds on a daily basis, when operating;
- (ii) the air flow rate to the SCR gas stream on an daily basis, when operating.

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

The company shall maintain records of the following parameters for the SCR System (Devon III) (Source ID: C012B) on a

**SECTION D. Source Level Requirements**

daily basis, when operating:

(i) the air flow rate to the gas stream;

(ii) the inlet operating temperature to the SCR oxidation and catalyst beds.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from §40 CFR 64.9.]

The permittee shall record all excursions and corrective actions taken in response to an excursion and the time elapsed until the corrective actions have been taken.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from §40 CFR 64.9.]

The permittee shall record all inspections, repair and maintenance performed on the monitoring equipment.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from §40 CFR 64.9.]

The permittee shall maintain records of all monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable). The permittee shall also record the dates, times and durations, possible causes and corrective actions taken for the incidents.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from §40 CFR 70.6(a)(3)(ii)(B).]

The permittee shall keep all records for a period of five (5) years and make the records available to the Department upon request.

V. REPORTING REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee, within two (2) hours of identification, shall notify the Department by telephone, at 484-250-5920, of any failure of the air pollution control system, including the events listed below, while processing nitrate containing solutions when NO_x emissions are greater than 13.4 lb/hr and VOC emissions are greater than 1.1 lb/hr.

1. The functional loss of the SCR system due to power failures, fire or other events within or beyond the control of the company.
2. The loss of the aqueous ammonia injection system.
3. The loss of any fan servicing the SCR control system.
4. Failure of the ductwork valves which would prohibit the oven gases from reaching the SCR system.
5. The loss of the NO_x analyzer.
6. Any fire in the drying ovens, ductwork, or emission control system.

(b) The permittee shall maintain records of emissions calculations during such reportable events and for any exceedances of the 13.4 lb/hr NO_x emission limit for the Drying and Calcining line. The permittee shall submit a written report to the

**SECTION D. Source Level Requirements**

Department within two (2) working days following the reportable incident describing the malfunction, the corrective actions taken, the time and duration of the incident.

(c) For reportable power failures pursuant to paragraph (a)(1), the permittee shall monitor for any odor during or after the power failure and shall report any objectionable odor beyond the property line as pursuant 25 Pa. Code § 123.31.

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

[Additional authority for this permit condition is also derived from §§40 CFR 64.9 and 70.6(a)(3)(iii)(A).]

The permittee shall report all excursions and corrective actions taken, the dates, times, durations and possible causes, every six (6) months.

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

[Additional authority for this permit condition is also derived from §40 CFR 64.9.]

The permittee shall report all monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable), their dates, times and durations, possible causes and corrective actions taken, every six (6) months.

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

(a) The permittee shall ensure that at least 90% of the monitoring data has been properly and accurately collected on a monthly basis.

(b) The permittee shall maintain all monitoring equipment and stock parts necessary for routine repairs onsite.

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

[Additional authority for this permit condition is also derived from §40 CFR 64.4.]

The permittee shall submit an implementation plan and schedule if the approved monitoring requires the installation, testing or other necessary activities. The schedule for completing installation and beginning operation of the monitoring may not exceed one hundred-eighty (180) days after the issuance date of the permit.

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

[Additional authority for this permit condition is also derived from §§40 CFR 64.3 and 64.6.]

The permittee shall adhere to the following approved ranges for the selected process parameters so that operation within the range shall provide reasonable assurance of compliance. A departure from the specified indicator range over a specified averaging period shall be defined as an excursion.

(i) an daily air flow rate to the SCR gas stream not to exceed 35,000 standard cubic feet per minute @ 70°F;

(ii) an daily inlet temperature to the SCR oxidation and catalyst beds not less than 575°F.

VI. WORK PRACTICE REQUIREMENTS.**# 018 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

(a) The permittee shall ensure that the SCR System (Devon III) (Source ID: C012B) shall be operated at a minimum temperature of 575°F measured at the inlet to the SCR System.

**SECTION D. Source Level Requirements**

(b) The permittee shall limit the influent to the SCR System (Devon III) (Source ID: C012B) to a maximum of 35,000 standard cubic feet per minute unless an alternative rate is approved by the Department.

(c) The permittee shall operate the SCR System (Devon III) (Source ID: C012B) and the Ammonia Scrubber (Source ID: C012C) whenever Line Nos. 7, 10, and 11 Coating Processes are operating with the following exception:

The exhaust from Source IDs 128, 129 and 130 may bypass the emission control system (Source IDs C012B and C012C) when the pre-control emissions are less than or equal to:

- 2.6 lb/hr of NO_x and
- 0.4 lb/hr of VOC

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

(a) The permittee shall ensure that a NO_x analyzer will be used to control aqueous ammonia additions to the exhaust stream within the SCR System (Devon III) (Source ID: C012B) anytime the control device is operating.

(b) The permittee shall ensure that the aqueous ammonia will be refilled as needed.

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

[Additional authority for the following permit conditions are also derived from §40 CFR 64.3.]

The permittee shall utilize approved QA/QC practices that are adequate to ensure continuing validity of data and proper performance of the devices.

(i) The permittee shall, for an approved device(s), install detectors or sensors at a location approved by the Department for obtaining data that are representative of the monitored indicator.

(ii) The permittee shall develop verification procedures to confirm the operational status of new or modified monitoring equipment prior to commencement of the monitoring process.

(iii) The permittee shall calibrate and check the accuracy of monitoring equipment taking into account the manufacturer's specifications at approved time intervals.

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

[Additional authority for this permit condition is also derived from §40 CFR 64.8.]

The permittee shall develop and implement a quality improvement plan (QIP) as expeditiously as practicable if any of the following occurs:

(i) For properly and accurately collected data, accumulated excursions exceed two percent (2%) of the data.

(ii) Six (6) excursions occur in a six-month reporting period.

(iii) The Department determines after review of all reported information that the permittee has not responded acceptably to an excursion.

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

[Additional authority for this permit condition is also derived from §40 CFR 64.8.]

In general, the QIP plan should be developed within sixty (60) days and the permittee shall provide a copy of the QIP to the

**SECTION D. Source Level Requirements**

Department. Furthermore, the permittee shall notify the Department if the period for completing the improvements contained in the QIP exceeds one hundred-eighty (180) days from the date on which the need to implement the QIP was determined.

023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from §40 CFR 64.9.]

The permittee shall record actions taken to implement a QIP during a reporting period and all related actions including, but not limited to inspections, repairs and maintenance performed on the monitoring equipment.

024 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from §40 CFR 64.8.]

In accordance with §40 CFR 64.8, the QIP shall include procedures for evaluating the control performance problems. Based on the results of the evaluation procedures, the permittee shall modify the QIP, and provide a copy to the Department, to include procedures for conducting more frequent or improved monitoring in conjunction with one or more of the following:

- (i) Improved preventive maintenance practices;
- (ii) Process operation changes;
- (iii) Appropriate improvements to control methods;
- (iv) Other steps appropriate to correct performance.

025 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from §40 CFR 64.8.]

Following implementation of a QIP, the Department will require reasonable revisions to the QIP if the plan has failed to either:

- (i) Address the cause of the control device performance problem;
- (ii) Provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

026 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from §40 CFR 64.8.]

Implementation of a QIP, shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under any federal, state, or local laws or any other applicable requirements under the Clean Air Act.

027 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

- (a) The permittee shall ensure that a copy of the manufacturer's specifications for maintenance and operation shall be kept and made available to Department personnel upon request.
- (b) The permittee shall maintain a record of repairs and maintenance, in a format approved by the Department. The record may be kept electronically or in a logbook.

**SECTION D. Source Level Requirements****# 028 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source ID C012B consists of the following components:

- A SCR system with a natural gas burner (heat exchanger), a oxidation bed for VOC reduction.
- An ammonia mixing/injection system and a catalyst bed for NOx removal.

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

**SECTION D. Source Level Requirements**

Source ID: C012C

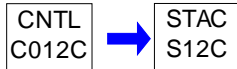
Source Name: AMMONIA SCRUBBER (DEVON III)

Source Capacity/Throughput:

1.000 Lbs/HR

AMMONIA

Conditions for this source occur in the following groups: GROUP 2

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

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

The permittee shall ensure that the ammonia emissions from the Ammonia Scrubber (Devon III) (Source ID: C012C) shall not exceed 10.00 ppmvd.

II. TESTING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The stack testing requirements for ammonia emissions are presented under Source ID C012B.

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.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall adhere to the following approved ranges for the selected process parameters so that operation within the range shall provide reasonable assurance of compliance. A departure from the specified indicator range over a specified averaging period shall be defined as an excursion.

(i) each pH value not less than 1 and not greater than 5, with an accuracy of 0.05% of span;

(ii) a daily average pressure drop value not to exceed 5 inches of water across the Ammonia scrubber;

(iii) a daily average liquid flow rate value not less than 425 gallons per minute across the Ammonia Scrubber.

**SECTION D. Source Level Requirements****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**

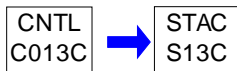
Source ID: C013C

Source Name: DEVON III AREA DUST COLLECTOR

Source Capacity/Throughput:

4.000 Lbs/HR

POWDER

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

No person may permit the emission into the outdoor atmosphere of particulate matter (filterable PM) from this source in excess of 0.02 grains per dry standard cubic foot.

[Compliance with this permit condition assures compliance with 25 Pa. Code § 123.13 (c)(1)(i).]

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

(a) The permittee shall perform a stack test using the Department-approved procedures once every five (5) calendar years, where five calendar years is defined as beginning with the calendar year the latest stack test was performed and ending on December 31, five years later. Performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department. When testing of a source is required on a recurring basis, a single procedural protocol may be submitted for approval; thereafter, a letter referencing the previously approved procedural protocol is sufficient. However, if modifications are made to the process(es), if a different stack testing company is used, or if an applicable section of the stack testing manual has been revised since approval, a new protocol must be submitted for approval.

(b) At least ninety (90) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

(c) The stack test shall, at a minimum, test for the PM emission rate and PM removal efficiency of the associated dust collect. Tests shall be conducted in accordance with the provisions of EPA Methods or other Department approved methodology and 25 Pa. Code Chapter 139.

(d) At least thirty (30) days prior to the test, the Regional Air Quality Manager, shall be informed of the date and time of the test.

(e) Within sixty (60) days after the source test(s) (unless a more stringent regulatory requirement applies), one paper copy plus one electronic copy of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

(f) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.

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

For this source, the permittee shall monitor the pressure drop daily, when it is operating.

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

For this source, the permittee shall maintain records of the pressure drop daily, when it is operating.

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

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

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

The pressure drop readings across this dust collector shall be maintained in the range of 0.2 to 10 inches of water.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

For this source,

- (a) a sufficient quantity of spare dust collector filters shall be kept on site in order to immediately replace anyone requiring replacement;
- (b) the dust collector filters shall meet the manufacturer's specifications; and
- (c) a pressure drop monitoring device shall be maintained according to the manufacturer's specifications.

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

(a) The following process exhausts are vented into this dust collector (C013C):

(i) Group A in DEVON III

- (1) 1,000-gallon Mixing Tank (T-1010)
- (2) 2,000-gallon Mixing Tank (T-1011)
- (3) 2,000-gallon Mixing Tank (T-1012)
- (4) 2,000-gallon Mixing Tank (T-1013)
- (5) 1,200-gallon Mixing Tank (T-1014)
- (6) 2,000-gallon Mixing Tank (T-1015)
- (7) 2,000-gallon Mixing Tank (T-1016)
- (8) 2,000-gallon Mixing Tank (T-1017)
- (9) 1,200-gallon Mixing Tank (T-1018)
- (10) 2,000-gallon Mixing Tank (T-1019)
- (11) 2,000-gallon Mixing Tank (T-1020)
- (12) 2,000-gallon Mixing Tank (T-1021)
- (13) 2,000-gallon Mixing Tank (T-1033)
- (14) Extraction trunk (WS-1)

(ii) Group B in DEVON III

- (1) 750-gallon Mixing Tank (T-1026)
- (2) 750-gallon Mixing Tank (T-1027)
- (3) 1,000-gallon Mixing Tank (T-1028)
- (4) 1,000-gallon Mixing Tank (T-1030)
- (5) 750-gallon Mixing Tank (T-1031)
- (6) 750-gallon Mixing Tank (T-1032)

(iii) Group C in DEVON III

- (1) 300-gallon Mixing Tank (T-1001)
- (2) 300-gallon Mixing Tank (T-1002)

**SECTION D. Source Level Requirements**

- (3) 300-gallon Mixing Tank (T-1003)
- (4) 1,000-gallon Mixing Tank (T-1004)
- (5) 1,000-gallon Mixing Tank (T-1005)
- (6) 300-gallon Mixing Tank (T-1006)

(b) No HAP compounds in dry form are added to the above tanks. 40 CFR Part 63 Subpart CCCCCC (7Cs) does not apply.

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

**SECTION D. Source Level Requirements**

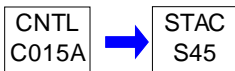
Source ID: C015A

Source Name: BLENDING TANKS DUST COLLECTOR 3

Source Capacity/Throughput:

1.000 Lbs/HR

PARTICULATE MATTER

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

No person may permit the emission into the outdoor atmosphere of particulate matter (filterable PM10) from this source in excess of 0.02 gr/dscf.

[Compliance with this streamlined permit condition will assure compliance with 25 Pa. Code §123.13(c)(1)(i).]

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

(a) The permittee shall perform a stack test using the Department-approved procedures once every five (5) calendar years, where five calendar years is defined as beginning with the calendar year the latest stack test was performed and ending on December 31, five years later. Performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department. When testing of a source is required on a recurring basis, a single procedural protocol may be submitted for approval; thereafter, a letter referencing the previously approved procedural protocol is sufficient. However, if modifications are made to the process(es), if a different stack testing company is used, or if an applicable section of the stack testing manual has been revised since approval, a new protocol must be submitted for approval.

(b) At least ninety (90) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

(c) The stack test shall, at a minimum, test for the PM (filterable) emissions [in grains per dry standard cubic feet (gr/dscf) and in pounds per hour (lb/hr)]. Tests shall be conducted in accordance with the provisions of EPA Method(s) or other Department approved methodology and 25 Pa. Code Chapter 139.

(d) At least thirty (30) days prior to the test, the Regional Air Quality Manager, shall be informed of the date and time of the test.

(e) Within sixty (60) days after the source test(s), two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

(f) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.

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

The permittee shall monitor the pressure drop across the Blending Tanks Dust Collector 3 (Source ID: C015A) anytime the control device is operating.

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

The permittee shall record the pressure drop across Blending Tanks Dust Collector 3 (Source ID: C015A), daily, when it is operating.

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

The permittee shall

- (a) ensure that Source ID C015A is equipped with a device for monitoring the pressure differential across the control device.
- (b) ensure that the pressure drop range across Source ID C015A does not exceed five (5) inches (w.g.) anytime, when it is operating.
- (c) keep on site a sufficient quantity of spare fabric filters (bags) in order to immediately replace any bags requiring replacement.
- (d) minimize fugitive emissions with good housekeeping and practicing good air pollution control.

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: C017

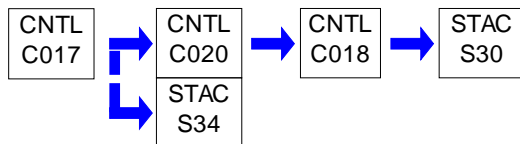
Source Name: LINE 14 OVENS NOX SCRUBBER

Source Capacity/Throughput:

N/A

NAOH IN H2O

Conditions for this source occur in the following groups: CONTROL-14

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

For the scrubber, the permittee shall monitor the following on a per shift basis, when it is in service:

- (i) The pH of the scrubbing liquid, using a pH probe
- (ii) The pressure drop across the scrubber, using a differential manometer or equivalent equipment
- (iii) The liquid flow rate across the scrubber, using a rotameter or equivalent equipment

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

For the scrubber, the permittee shall maintain records of the following on a per shift basis, when it is in service:

- (i) The pH of the scrubbing liquid
- (ii) The pressure drop across the scrubber
- (iii) The liquid flowrate to the scrubber

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

- (a) The permittee shall maintain daily records of the visual inspection of the scrubber.
- (b) The permittee shall maintain records of the annual inspection of the scrubber nozzles and packings.

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).

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

The permittee shall ensure that the Line 14 Ovens NOx Scrubber demisters will be monitored with magnehelic gauges or equivalent equipment and will be back-flushed when the pressure drop exceeds 12" of water (H₂O).

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

(a) The permittee shall ensure that a daily visual inspection of the scrubber will be performed.

(b) The permittee shall ensure that an annual inspection of the scrubber nozzles and packing will be performed.

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

For Line 14 Ovens NOx Scrubber, the permittee shall ensure that:

- (i) the pH value is in the range of 8 to 14 for the NOx scrubbing liquid;
- (ii) the pressure drop does not exceed 12" of water (H₂O).
- (iii) The scrubbing liquid flowrate is in the range of 50 to 450 gallons per minute (gpm).

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: C018

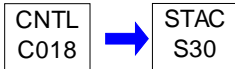
Source Name: LINE 14 AMMONIA SCRUBBER

Source Capacity/Throughput:

N/A

SULFURIC ACID IN H2O

Conditions for this source occur in the following groups: CONTROL-14

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

For this source, the permittee shall monitor the following operating parameters, when it is in service:

- (i) The pH value of the scrubbing liquid, using a pH probe, on a per shift basis.
- (ii) The pressure drop across the scrubber, using a differential manometer or equivalent equipment, on a per shift basis.
- (iii) The scrubbing liquid flowrate, using a rotameter or equivalent equipment, on a per shift basis.

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

(a) The permittee shall maintain daily records of the visual inspection of the scrubber.

(b) The permittee shall maintain records of the annual inspection of the scrubber nozzles and packings.

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

For this source, the permittee shall maintain records of the following operating parameters, when it is in service:

- (i) The pH value of the scrubbing liquid, on a per shift basis.
- (ii) The pressure drop across the scrubber, on a per shift basis.
- (iii) The scrubbing liquid flowrate, on a shift basis.

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).

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

- (a) The permittee shall ensure that a daily visual inspection of the scrubber will be performed.
- (b) The permittee shall ensure that an annual inspection of the scrubber nozzles and packing will be performed.

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

The permittee shall ensure that the scrubber's demisters will be monitored with magnehelic gauges or equivalent equipment and will be back-flushed when the pressure drop across the Line 14 Ammonia Scrubber exceeds 7" of water (H₂O).

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

For Line 14 Ammonia Scrubber (Source ID: C018), the permittee shall ensure that the following operating parameters are maintained:

- (i) the pH value is in the range of 1 to 5.
- (ii) the pressure drop does not exceed 7" of water (H₂O).
- (iii) the scrubbing liquid flowrate is in the range of 200 to 470 gallons per minute (gpm).

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: C019

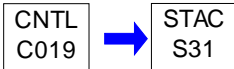
Source Name: LINE 15 AMMONIA SCRUBBER

Source Capacity/Throughput:

N/A

SULFURIC ACID IN H2O

Conditions for this source occur in the following groups: CONTROL-15

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

(a) The Line 15 Pollution Control System shall achieve the following standards:

- (1) NO_x: at minimum, 90% removal efficiency (on a mass basis).
- (2) VOC: at minimum, 90% removal efficiency (on a mass basis), or, 20 ppmvd or less as methane.

(b) The ammonia concentration in the exhaust from the Line 15 Ammonia Scrubber (Source ID C019) shall not exceed 10 ppmvd.

The Line 15 Pollution Control System (Source ID 204 control devices) is comprised of:

- Line 15 SCR System (Source ID: C021)
- Line 15 Ammonia Scrubber (Source ID: C019)

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 monitor the following operating parameters for the scrubber, when it is in service:

- (i) The pH of the scrubbing liquid, using a pH probe, on a per shift basis;
- (ii) The pressure drop across the scrubber, on a per shift basis; and
- (iii) The scrubbing liquid flowrate, on a per shift basis.

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

For this source, the permittee shall maintain records of the following operating parameters, when it is in service:

- (i) The pH of the scrubbing liquid, on a per shift basis.
- (ii) The pressure drop across the scrubber, on a per shift basis.
- (iii) The scrubbing liquid flowrate, on a shift basis.

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

- (a) The permittee shall maintain daily records of the visual inspection of the scrubber.
- (b) The permittee shall maintain records of the annual inspection of the scrubber nozzles and packings.

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.**

The permittee shall ensure that the Line 15 Ammonia Scrubber demisters will be monitored with magnehelic gauges or equivalent equipment and will be back-flushed when the pressure drop across the scrubber exceeds 7" of water (H₂O).

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

For this source, the permittee shall ensure that the following operating parameters are maintained:

- (i) pH value of the scrubbing liquid shall be in the range of 1 to 5.
- (ii) Pressure drop across the scrubber shall not exceed 7" of water (H₂O).
- (iii) Scrubbing liquid flowrate shall be in the range of 200 to 470 gallons per minute (gpm).

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

- (a) The permittee shall ensure that a daily visual inspection of the Line 15 Ammonia Scrubber will be performed.
- (b) The permittee shall ensure that an annual inspection of the scrubber nozzles and packing will be performed.

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: C020

Source Name: LINE 14 SCR SYSTEM

Source Capacity/Throughput:

N/A

AQUEOUS AMMONIA (30% WT.)

Conditions for this source occur in the following groups: CONTROL-14

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

[Additional authority for this permit condition is also derived from §§40 CFR 64.3 and 64.6.]

(a) The permittee shall monitor using the approved frequency below for each applicable process parameter:

- (i) The flow rate, on a daily basis, when operating;
- (ii) The inlet operating temperatures for the SCR oxidation and catalyst beds on a daily basis, when operating.

(b) The permittee shall use the approved process parameters to obtain data and monitor the emission control equipment performance.

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

[Additional authority for this permit condition is also derived from §§40 CFR 64.6 and 64.3.]

The permittee shall use the following approved means or devices to measure the applicable process parameters:

(i) K-type thermocouples or equivalent equipment to monitor the inlet gas temperatures to assure proper operation of the SCR system.

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

[Additional authority for this permit condition is also derived from §40 CFR 64.3.]

The permittee shall use the following approved period over which discrete data points for the approved process parameters will be collected and averaged for the purpose of determining an excursion:

- (i) The flow rate, on a daily basis, when operating;
- (ii) The inlet operating temperatures for the SCR oxidation and catalyst beds on a daily basis, when operating.

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

The permittee shall maintain records of the following operating parameters for the Line 14 SCR System (Source ID: C020) on a daily basis, when operating:

- (i) The flow rate;
- (ii) The inlet operating temperatures for the SCR oxidation and catalyst beds.

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

[Additional authority for this permit condition is also derived from §40 CFR 64.9.]

The permittee shall maintain records of all monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable). The permittee shall also record the dates, times and durations, possible causes and corrective actions taken for the incidents.

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

[Additional authority for this permit condition is also derived from §40 CFR 70.6(a)(3)(ii)(B).]

The permittee shall keep all records for a period of five (5) years and make the records available to the Department upon request.

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

[Additional authority for this permit condition is also derived from §40 CFR 64.9.]

The permittee shall record all excursions and corrective actions taken in response to an excursion and the time elapsed until the corrective actions have been taken.

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

[Additional authority for this permit condition is also derived from §40 CFR 64.9.]

The permittee shall record all inspections, repair and maintenance performed on the monitoring equipment.

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

(a) The permittee, within two (2) hour of identification, shall notify the Department by telephone, at 484-250-5920, of any failure of the air pollution control system, including the events listed below, while processing nitrate containing solutions when NO_x emissions are greater than 13.4 lb/hr and VOC emissions are greater than 1.1 lb/hr:

- (1) The functional loss of the SCR system due to power failures, fire or other events within or beyond the control of the company.
- (2) The loss of the aqueous ammonia injection system.
- (3) The loss of any fan servicing the SCR control system.
- (4) Failure of the ductwork valves which would prohibit the oven gases from reaching the SCR system.
- (5) The loss of the control device monitoring system.

**SECTION D. Source Level Requirements**

(6) Any fire in the drying ovens, ductwork, or emission control system.

(b) The permittee shall maintain records of emissions calculations during such reportable events and for any exceedances of the 13.4 lb/hr NO_x emission limit for the Drying and Calcining line. The permittee shall submit a written report to the Department within two (2) working days following the reportable incident describing the malfunction, the corrective actions taken, the time, date and duration of the incident.

(c) For reportable power failures pursuant to paragraph (a)(1), the permittee shall monitor for any odor during or after the power failure and shall report any objectionable odor beyond the property line as pursuant 25 Pa. Code § 123.31.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from §§40 CFR 64.9 and 70.6(a)(3)(iii)(A).]

The permittee shall report all excursions and corrective actions taken, the dates, times, durations and possible causes, every six (6) months.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from §40 CFR 64.9.]

The permittee shall report all monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable), their dates, times and durations, possible causes and corrective actions taken, every six (6) months.

VI. WORK PRACTICE REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall ensure that the Line 14 SCR System (Source ID: C020) is equipped with the following equipment:

- (1) K-type thermocouples or equivalent equipment to monitor the inlet gas temperatures to assure proper operation of the SCR system.
- (2) A control system to monitor the proper amount of aqueous ammonia reagent needed to reduce NO_x emissions from the catalyst bed.
- (3) A Heat Exchanger and a Reheater equipped with a Maxon Series LV Airflo Burner, with a rated capacity of 7.5 MMBTU/hr.
- (4) A VOC oxidation bed containing a catalyst (i.e., SC03) measuring 8' x 8' in cross-section and 4" in depth.
- (5) A NO_x catalyst bed.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall ensure that the dryer and oven exhaust for the Line 14 SCR System (Source ID: C020) is equipped with emergency bypass dampers to allow the equipment to undergo a systematic shutdown in the event of a power failure.

(b) Operation of the Drying and Calcining lines is not approved unless all required air pollution control devices are fully operational, except as otherwise provided herein.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall ensure that the exhaust from the Line 14 SCR System (Source ID: C020) after heat recovery will be cooled to 404°F or less prior to the inlet of the Line 14 Ammonia Scrubber (Source ID: C018).

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

The permittee shall ensure that the emissions from the Line 14 SCR System (Source ID: C020) shall be further controlled by an ammonia gas scrubber (Source ID: C018).

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

[Additional authority for this permit condition is also derived from §§40 CFR 64.3 and 64.6.]

(a) The permittee shall adhere to the following approved ranges for the selected process parameters so that operation within the range shall provide reasonable assurance of compliance. A departure from the specified indicator range over a specified averaging period shall be defined as an excursion.

(b) The permittee shall ensure that the following operating parameters are maintained for the Line 14 SCR System (Source ID: C020):

(1) A maximum flow rate not to exceed 35,000 scfm (@70° F);

(2) The inlet operating temperatures for the SCR oxidation and catalyst beds not less than 575° F and not greater than 752° F.

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

[Additional authority for this permit condition is also derived from §40 CFR 64.4.]

The permittee shall submit an implementation plan and schedule if the approved monitoring requires the installation, testing or other necessary activities. The schedule for completing installation and beginning operation of the monitoring may not exceed one hundred-eighty (180) days after the issuance date of the permit.

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

[Additional authority for the following permit conditions are also derived from §40 CFR 64.3.]

The permittee shall utilize approved QA/QC practices that are adequate to ensure continuing validity of data and proper performance of the devices.

(i) The permittee shall, for an approved device(s), install detectors or sensors at a location approved by the Department for obtaining data that are representative of the monitored indicator.

(ii) The permittee shall develop verification procedures to confirm the operational status of new or modified monitoring equipment prior to commencement of the monitoring process.

(iii) The permittee shall calibrate and check the accuracy of monitoring equipment taking into account the manufacturer's specifications at approved time intervals.

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

(a) The permittee shall ensure that at least 90% of the monitoring data has been properly and accurately collected on a monthly basis.

(b) The permittee shall maintain all monitoring equipment and stock parts necessary for routine repairs onsite.

VII. ADDITIONAL REQUIREMENTS.**# 020 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

**SECTION D. Source Level Requirements**

The permittee shall ensure that damper valves in the exhaust stacks will not exhaust hot dryer gases to the atmosphere except in the event of the following:

- (1) An emergency shutdown of the system(s) due to an electrical power or mechanical failure of the pollution control system;
- (2) Emissions from the dryers and calcining ovens are lower than the maximum post control emission rates listed below:
 - (i) VOC: 1.1 lb/hr
 - (ii) NOx: 13.4 lb/hr

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

[Additional authority for this permit condition is also derived from §40 CFR 64.8.]

Following implementation of a QIP, the Department will require reasonable revisions to the QIP if the plan has failed to either:

- (i) Address the cause of the control device performance problem;
- (ii) Provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

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

[Additional authority for this permit condition is also derived from §40 CFR 64.8.]

The permittee shall develop and implement a quality improvement plan (QIP) as expeditiously as practicable if any of the following occurs:

- (i) For properly and accurately collected data, accumulated excursions exceed two percent (2%) of the data.
- (ii) Six (6) excursions occur in a six-month reporting period.
- (iii) The Department determines after review of all reported information that the permittee has not responded acceptably to an excursion.

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

[Additional authority for this permit condition is also derived from §40 CFR 64.9.]

The permittee shall record actions taken to implement a QIP during a reporting period and all related actions including, but not limited to inspections, repairs and maintenance performed on the monitoring equipment.

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

[Additional authority for this permit condition is also derived from §40 CFR 64.8.]

In accordance with §40 CFR 64.8, the QIP shall include procedures for evaluating the control performance problems. Based on the results of the evaluation procedures, the permittee shall modify the QIP, and provide a copy to the Department, to include procedures for conducting more frequent or improved monitoring in conjunction with one or more of the following:

- (i) Improved preventive maintenance practices;
- (ii) Process operation changes;
- (iii) Appropriate improvements to control methods;

**SECTION D. Source Level Requirements**

(iv) Other steps appropriate to correct performance.

025 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from §40 CFR 64.8.]

Implementation of a QIP, shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under any federal, state, or local laws or any other applicable requirements under the Clean Air Act.

026 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from §40 CFR 64.8.]

The QIP plan should be developed within sixty (60) days and the permittee shall provide a copy of the QIP to the Department. Furthermore, the permittee shall notify the Department if the period for completing the improvements contained in the QIP exceeds one hundred-eighty (180) days from the date on which the need to implement the QIP was determined.

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

**SECTION D. Source Level Requirements**

Source ID: C021

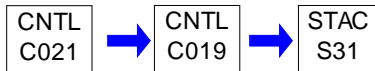
Source Name: LINE 15 SCR SYSTEM

Source Capacity/Throughput:

N/A

AQUEOUS AMMONIA (30% WT.)

Conditions for this source occur in the following groups: CONTROL-15

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

(a) The Line 15 Pollution Control System shall achieve the following standards:

- (1) NO_x: at minimum, 90% removal efficiency (on a mass basis).
- (2) VOC: at minimum, 90% removal efficiency (on a mass basis), or, 20 ppmvd or less as methane.

(b) The ammonia concentration in the exhaust from the Line 15 Ammonia Scrubber (Source ID C019) shall not exceed 10 ppmvd.

The Line 15 Pollution Control System (Source ID 204 control devices) is comprised of:

- Line 15 SCR System (Source ID: C021)
- Line 15 Ammonia Scrubber (Source ID: C019)

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.**

[Additional authority for this permit condition is also derived from §40 CFR 64.3.]

The permittee shall use the following approved period over which discrete data points for the approved process parameters will be collected and averaged for the purpose of determining an excursion:

- (i) The flow rate, on a daily basis, when operating;
- (ii) The inlet operating temperatures for the SCR oxidation and catalyst beds on a daily basis, when operating.

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

[Additional authority for this permit condition is also derived from §§40 CFR 64.3 and 64.6.]

(a) The permittee shall monitor using the approved frequency below for each applicable process parameter:

- (i) The flow rate, on a daily basis, when operating;
- (ii) The inlet operating temperatures for the SCR oxidation and catalyst beds on a daily basis, when operating.

**SECTION D. Source Level Requirements**

(b) The permittee shall use the approved process parameters to obtain data and to monitor the emission control equipment performance.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from §§ 40 CFR 64.6 and 64.3.]

The permittee shall use the following approved means or devices to measure the applicable process parameters:

(i) K-type thermocouples or equivalent equipment to monitor the inlet gas temperatures to assure proper operation of the SCR system.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of the following operating parameters for the Line 15 SCR System (Source ID: C021) on a daily basis, when operating:

(i) The flow rate;

(ii) The inlet operating temperatures for the SCR oxidation and catalyst beds.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from §40 CFR 64.9.]

The permittee shall record all excursions and corrective actions taken in response to an excursion and the time elapsed until the corrective actions have been taken.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from §40 CFR 64.9.]

The permittee shall maintain records of all monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable). The permittee shall also record the dates, times and durations, possible causes and corrective actions taken for the incidents.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from §40 CFR 70.6(a)(3)(ii)(B).]

The permittee shall keep all records for a period of five (5) years and make the records available to the Department upon request.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from §40 CFR 64.9.]

The permittee shall record all inspections, repair and maintenance performed on the monitoring equipment.

V. REPORTING REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee, within two (2) hour of identification, shall notify the Department by telephone, at 484-250-5920, of any

**SECTION D. Source Level Requirements**

failure of the air pollution control system, including the events listed below, while processing nitrate containing solutions when NO_x emissions are greater than 13.4 lb/hr and VOC emissions are greater than 1.1 lb/hr:

- (1) The functional loss of the SCR system due to power failures, fire or other events within or beyond the control of the company.
- (2) The loss of the aqueous ammonia injection system.
- (3) The loss of any fan servicing the SCR control system.
- (4) Failure of the ductwork valves which would prohibit the oven gases from reaching the SCR system.
- (5) The loss of the control device monitoring system.
- (6) Any fire in the drying ovens, ductwork, or emission control system.

(b) The permittee shall maintain records of emissions calculations during such reportable events and for any exceedances of the 13.4 lb/hr NO_x emission limit for the Drying and Calcining line. The permittee shall submit a written report to the Department within two (2) working days following the reportable incident describing the malfunction, the corrective actions taken, the time, date and duration of the incident.

(c) For reportable power failures pursuant to paragraph (a)(1), the permittee shall monitor for any odor during or after the power failure and shall report any objectionable odor beyond the property line as pursuant 25 Pa. Code § 123.31.

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

[Additional authority for this permit condition is also derived from §§40 CFR 64.9 and 70.6(a)(3)(iii)(A).]

The permittee shall report all excursions and corrective actions taken, the dates, times, durations and possible causes, every six (6) months.

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

[Additional authority for this permit condition is also derived from §40 CFR 64.9.]

The permittee shall report all monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable), their dates, times and durations, possible causes and corrective actions taken, every six (6) months.

VI. WORK PRACTICE REQUIREMENTS.**# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall ensure that the exhaust from this Line 15 SCR System (Source ID: C021) after heat recovery will be cooled to 404°F or less, prior to the inlet of the Line 15 Ammonia Scrubber (Source ID: C019).

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

The permittee shall ensure that the Line 15 SCR System (Source ID: C021) is equipped with the following equipment:

- (1) K-type thermocouples or equivalent equipment to monitor the inlet gas temperatures to assure proper operation of the SCR system.
- (2) A control system to monitor the proper amount of aqueous ammonia reagent needed to oxidize NO_x emissions from the catalyst bed.
- (3) A Heat Exchanger and a Reheater equipped with a Maxon Series LV Airflo Burner, with a rated capacity of 7.5 MMBTU/hr.

**SECTION D. Source Level Requirements**

(4) A VOC oxidation bed containing a catalyst (i.e., SC03) measuring 8' x 8' in cross-section and 4" in depth.

(5) A NOx catalyst bed.

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

(a) The permittee shall ensure that the dryer and oven exhaust for the Line 15 SCR System (Source ID: C021) is equipped with emergency bypass dampers to allow the equipment to undergo a systematic shutdown in the event of a power failure.

(b) Operation of the Drying and Calcining lines is not approved unless all required air pollution control devices are fully operational, except as otherwise provided herein.

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

The permittee shall ensure that the emissions from the Line 15 SCR System (Source ID: C021) shall be further controlled by an ammonia gas scrubber (Source ID: C019).

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

[Additional authority for this permit condition is also derived from §§40 CFR 64.3 and 64.6.]

(a) The permittee shall adhere to the following approved ranges for the selected process parameters so that operation within the range shall provide reasonable assurance of compliance. A departure from the specified indicator range over a specified averaging period shall be defined as an excursion.

(b) The permittee shall ensure that the following operating parameters are maintained for the Line 15 SCR System (Source ID: C021):

(1) A maximum flow rate not to exceed 35,000 scfm (@70° F);

(2) The inlet operating temperatures for the SCR oxidation and catalyst beds not less than 575° F and not greater than 752° F.

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

[Additional authority for this permit condition is also derived from §40 CFR 64.4.]

The permittee shall submit an implementation plan and schedule if the approved monitoring requires the installation, testing or other necessary activities. The schedule for completing installation and beginning operation of the monitoring may not exceed one hundred-eighty (180) days after the issuance date of the permit.

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

[Additional authority for the following permit conditions are also derived from §40 CFR 64.3.]

The permittee shall utilize approved QA/QC practices that are adequate to ensure continuing validity of data and proper performance of the devices.

(i) The permittee shall, for an approved device(s), install detectors or sensors at a location approved by the Department for obtaining data that are representative of the monitored indicator.

(ii) The permittee shall develop verification procedures to confirm the operational status of new or modified monitoring equipment prior to commencement of the monitoring process.

(iii) The permittee shall calibrate and check the accuracy of monitoring equipment taking into account the manufacturer's specifications at approved time intervals.

**SECTION D. Source Level Requirements****# 020 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (a) The permittee shall ensure that at least 90% of the monitoring data has been properly and accurately collected on a monthly basis.
- (b) The permittee shall maintain all monitoring equipment and stock parts necessary for routine repairs onsite.

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

The permittee shall ensure that damper valves in the exhaust stacks will not exhaust hot dryer gases to the atmosphere except in the event of the following:

- (1) An emergency shutdown of the system(s) due to an electrical power or mechanical failure of the pollution control system;
- (2) Emissions from the dryer and calcining oven are lower than the maximum post control emission rates listed below:
- (i) VOC: 1.1 lb/hr
 - (ii) NOx: 13.4 lb/hr

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

[Additional authority for this permit condition is also derived from §40 CFR 64.8.]

Following implementation of a QIP, the Department will require reasonable revisions to the QIP if the plan has failed to either:

- (i) Address the cause of the control device performance problem;
- (ii) Provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

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

[Additional authority for this permit condition is also derived from §40 CFR 64.8.]

The permittee shall develop and implement a quality improvement plan (QIP) as expeditiously as practicable if any of the following occurs:

- (i) For properly and accurately collected data, accumulated excursions exceed two percent (2%) of the data.
- (ii) Six (6) excursions occur in a six-month reporting period.
- (iii) The Department determines after review of all reported information that the permittee has not responded acceptably to an excursion.

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

[Additional authority for this permit condition is also derived from §40 CFR 64.8.]

The QIP plan should be developed within sixty (60) days and the permittee shall provide a copy of the QIP to the Department. Furthermore, the permittee shall notify the Department if the period for completing the improvements contained in the QIP exceeds one hundred-eighty (180) days from the date on which the need to implement the QIP was determined.

**SECTION D. Source Level Requirements****# 025 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from §40 CFR 64.9.]

The permittee shall record actions taken to implement a QIP during a reporting period and all related actions including, but not limited to inspections, repairs and maintenance performed on the monitoring equipment.

026 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from §40 CFR 64.8.]

In accordance with §40 CFR 64.8, the QIP shall include procedures for evaluating the control performance problems. Based on the results of the evaluation procedures, the permittee shall modify the QIP, and provide a copy to the Department, to include procedures for conducting more frequent or improved monitoring in conjunction with one or more of the following:

- (i) Improved preventive maintenance practices;
- (ii) Process operation changes;
- (iii) Appropriate improvements to control methods;
- (iv) Other steps appropriate to correct performance.

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

[Additional authority for this permit condition is also derived from §40 CFR 64.8.]

Implementation of a QIP, shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under any federal, state, or local laws or any other applicable requirements under the Clean Air Act.

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

**SECTION E. Source Group Restrictions.**

Group Name: CONTROL-14

Group Description: stack test for Line 14 control devices

Sources included in this group

ID	Name
C017	LINE 14 OVENS NOX SCRUBBER
C018	LINE 14 AMMONIA SCRUBBER
C020	LINE 14 SCR SYSTEM

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

(a) The Line 14 Pollution Control System shall achieve the following standards:

- (1) NO_x: at a minimum, 90% removal efficiency (on a mass basis).
- (2) VOC: at a minimum, 90% removal efficiency (on a mass basis), or less than 20 ppmvd as methane.

(b) The ammonia concentration in the exhaust from the Line 14 Ammonia Scrubber (Source ID C018) shall not exceed 10 ppmvd.

The Line 14 Pollution Control System (Source ID 203 control devices) is comprised of:

- Line 14 Ovens NO_x Scrubber (Source ID: C017)
- Line 14 SCR System (Source ID: C020)
- Line 14 Ammonia Scrubber (Source ID: C018)

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

(a) The permittee shall perform a stack test using the Department-approved procedures once every five (5) calendar years, where five calendar years is defined as beginning with the calendar year the latest stack test was performed and ending on December 31, five years later. Performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department. When testing of a source is required on a recurring basis, a single procedural protocol may be submitted for approval; thereafter, a letter referencing the previously approved procedural protocol is sufficient. However, if modifications are made to the process(es), if a different stack testing company is used, or if an applicable section of this manual has been revised since approval, a new protocol must be submitted for approval.

(b) At least ninety (90) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

- (c) The stack test shall, at a minimum, test for
- NO_x removal efficiency
 - VOC removal efficiency and VOC concentration as methane in ppmvd.
 - Ammonia concentration in ppmvd.

Tests shall be conducted in accordance with the provisions of EPA Method(s) or other Department approved methodology and 25 Pa. Code Chapter 139.

(d) At least thirty (30) days prior to the test, the Regional Air Quality Manager, shall be informed of the date and time of the test.

(e) Within sixty (60) days after the source test(s), two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

(f) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in

**SECTION E. Source Group Restrictions.**

writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.

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: CONTROL-15

Group Description: stack test for line 15

Sources included in this group

ID	Name
C019	LINE 15 AMMONIA SCRUBBER
C021	LINE 15 SCR SYSTEM

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

(a) The permittee shall perform a stack test using the Department-approved procedures once every five (5) calendar years, where five calendar years is defined as beginning with the calendar year the latest stack test was performed and ending on December 31, five years later. Performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department. When testing of a source is required on a recurring basis, a single procedural protocol may be submitted for approval; thereafter, a letter referencing the previously approved procedural protocol is sufficient. However, if modifications are made to the process(es), if a different stack testing company is used, or if an applicable section of this manual has been revised since approval, a new protocol must be submitted for approval.

(b) At least ninety (90) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

(c) The stack test shall, at a minimum, test for

- NO_x removal efficiency
- VOC removal efficiency, and VOC concentration as methane in ppmvd.
- Ammonia concentration in ppmvd.

Tests shall be conducted in accordance with the provisions of EPA Method(s) or other Department approved methodology and 25 Pa. Code Chapter 139.

(d) At least thirty (30) days prior to the test, the Regional Air Quality Manager, shall be informed of the date and time of the test.

(e) Within sixty (60) days after the source test(s), two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

(f) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.

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).

**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).

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: GROUP 1

Group Description: Coating Lines 7, 10, & 11

Sources included in this group

ID	Name
128	LINE 7 COATING PROCESS (DEVON III)
129	LINE 10 COATING PROCESS (DEVON III)
130	LINE 11 COATING PROCESS (DEVON III)

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

The total combined emissions from Source IDs 128, 129 and 130 shall not exceed the following limitations:

Nitrogen Oxides (NO_x): 2.6 lb/hr, as an one-hour rolling sumNitrogen Oxides (NO_x): 7.10 ton/yr, as a 12-month rolling sum

Volatile Organic Compounds (VOC): 0.40 lb/hr, as an one-hour rolling sum, as methane

Volatile Organic Compounds (VOC): 2.5 ton/yr, as a 12-month rolling sum

II. TESTING REQUIREMENTS.

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

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

For this source, the permittee shall

- (a) monitor monthly usage for each coating, thinner, component and cleaning solvents.
- (b) track the total VOC and NO_x emissions monthly, on a 12-month rolling sum basis.

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

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

- (a) For this source, the permittee shall keep monthly records of
 - (1) usage for each coating, thinner, component and cleaning solvent.
 - (2) VOC and HAP content for each coating, thinner, component and cleaning solvent.
- (b) The permittee shall compile and maintain records of the total VOC and NO_x emissions from Source IDs: 128, 129 and 130, on a monthly and 12-month rolling sum basis.

V. REPORTING REQUIREMENTS.

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

**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).

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: GROUP 2

Group Description: Devon III Ammonia Scrubber

Sources included in this group

ID	Name
C012C	AMMONIA SCRUBBER (DEVON III)

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

The permittee shall monitor the following parameters on a per shift basis, when operating:

- (i) the pH of the scrubbing liquid;
- (ii) the differential pressure drop across the scrubber;
- (iii) the water flow rate across the scrubber.

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

The permittee shall record the following parameters on a per shift basis, when operating:

- (i) the pH of the scrubbing liquid using a pH probe;
- (ii) the differential pressure drop across the scrubber using a Magnehelic gauge or equivalent;
- (iii) the water flow rate across the scrubber using magnetic flow meters or equivalent.

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

- (a) The permittee shall record all inspections, repair and maintenance performed on the monitoring equipment.
- (b) The permittee shall maintain records of all monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable). The permittee shall also record the dates, times and durations, possible causes and corrective actions taken for the incidents.

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).

**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).

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

**SECTION E. Source Group Restrictions.**

Group Name: GROUP 3

Group Description: diesel fuel testing

Sources included in this group

ID	Name
199	650-KW BACKUP DIESEL GENERATOR
200A	400-KW DIESEL EMERGENCY GENERATOR
732	EMERGENCY GENERATOR (DETROIT 650 KW)

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.**# 001 [25 Pa. Code §139.16]****Sulfur in fuel oil.**

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

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

(2) Test methods and procedures for the determination of viscosity shall be that specified in 25 Pa. Code § 139.4(11) relating to references). The viscosity shall be determined at 100°F.

(3) Tests methods and procedures for the determination of sulfur shall be those specified in 25 Pa. Code § 139.4(12)-- (15) and (20).

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

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

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

The permittee shall maintain records of the following information, for each shipment of diesel fuel received, obtained either by laboratory analysis or from the fuel supplier's certification:

(a) Sulfur content.

(b) Cetane index or aromatic content.

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).

**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).

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

**SECTION F. Alternative Operation Requirements.**

Alternative Operation Name: LINE14 EXHAUST VENTING TO L15 SYSTEM

#001 CHANGES FROM NORMAL OPERATION

Line 14 exhaust may be treated in the following three steps:

- (1) in Line 14 NOx Scrubber (Source ID C017)
- (2) in Line 15 SCR unit (Source ID C021)
- (3) in Line 15 Ammonia Scrubber (Source ID C019)

Sources included in this Alternative Operation:

ID	Name	Source Type
203	LINE 14 DRYING & CALCINING	Process

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

(a) When using this Alternative Operating Schedule, the permittee shall ensure that the total combined post-control pollutant emissions from Source IDs 203 and 204 shall not exceed the following limits:

Pollutant	Max. Hourly Emissions (lb/hr)*	Max. Hourly Emissions (ppmdv)	Avg. Annual Emissions (tons/yr)**
Nitrogen Oxides (NOx)	13.4		11.0
Volatile Organic Compounds (VOC)	1.1		2.5
Ammonia (NH3)		10	

[* Calculated as a 60-minute rolling sum.]

[** Calculated as a 12-month rolling sum.]

(b) Total combined NOx and VOC emissions from this operating scenario are counted towards Source ID 204 emissions.

Operation Hours Restriction(s).**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

This alternative operating schedule shall be limited to 800 hours per year, as a 12-month rolling sum.

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

The permittee may use this alternative operating schedule when:

(a) Operating Conditions:

- (1) The exhaust treatment system for Source ID 203 is under repair and/or maintenance, or
- (2) Source ID 203 Drying Ovens are in the process of shutting down.

(b) Exhaust Flow from Source ID 203:

- (1) The exhaust from Calcining Ovens shall be first treated in Source ID C017 (L14 NOx Scrubber), then
- (2) The pre-treated Calcining Oven exhaust and Drying Oven exhaust shall enter Source ID C021 (L15 SCR) for further treatment system.
- (3) Total combined exhaust flow to Source ID 201 (L15 SCR) shall not exceed 35,000 scfm (@ 70 °F).
- (4) The inlet operating temperature for Source ID C021 and catalyst beds shall be greater than 575 °F and less than 752 °F.

**SECTION F. Alternative Operation Requirements.**

(c) The continuous NO_x concentration and flowrate monitoring and recording systems are operating properly.

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.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

When in operation, the permittee shall

(a) continuously monitor NO_x emission concentration and exhaust flowrate.

(b) monitor hours of operation and operating status (such as, for shutdown period or maintenance).

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The permittee shall calculate and record total combined NO_x and VOC emissions hourly and annually.

(b) The permittee shall record date, duration of each event, and operating status (such as, shutdown and/or maintenance), when this alternative operation schedule is used.

[Hourly emissions are calculated as a 60-minute rolling sum; annually emissions are calculated as a 12-month rolling sum.]

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 monitoring location for NO_x and flowrate shall be located between the downstream of L15 Ammonia Scrubber and the stack discharge point.

(b) The permittee shall operate and maintain the emission NO_x, and flowrate monitoring system according to the manufacturer's specifications.

(c) The permittee shall comply with applicable permit conditions for Source IDs 203, 204, C017, C021 and C019, in Section D of this permit.

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 G. Emission Restriction Summary.**

Source Id	Source Descriptor		
103	DEVON I PRODUCTION AREA		
Emission Limit		Pollutant	
2.600	Lbs/Hr	Source 103 emissions may bypass SCR system	NOX
26.600	Tons/Yr	12-month rolling sum basis	NOX
0.040	gr/DRY FT3	particulate matter	TSP
0.400	Lbs/Hr	Source 103 emissions may bypass SCR system	VOC
13.600	Tons/Yr	12-month rolling sum basis as CH4	VOC
104	ENGINE TEST CELLS (6)		
Emission Limit		Pollutant	
11.000	Tons/Yr	12-month rolling sum.	NOX
500.000	PPMV	dry basis	SOX
0.040	gr/DRY FT3	particulate matter	TSP
2.700	Tons/Yr	12-month rolling sum as CH4	VOC
115	DEVON II QC LAB SAMPLE EQUIPMENT		
Emission Limit		Pollutant	
0.040	gr/DRY FT3	particulate matter	TSP
117	POWDER HANDLING EQUIPMENT (SYSTEM I)		
Emission Limit		Pollutant	
0.040	gr/DRY FT3	particulate matter	TSP
119	POWDER HANDLING EQUIPMENT (DEVON II)		
Emission Limit		Pollutant	
0.040	gr/DRY FT3	particulate matter	TSP
128	LINE 7 COATING PROCESS (DEVON III)		
Emission Limit		Pollutant	
2.600	Lbs/Hr	Total from Coating Lines	NOX
7.100	Tons/Yr	Total from Coating Lines	NOX
0.040	gr/DRY FT3	particulate matter	TSP
0.400	Lbs/Hr	Total from Coating Lines as CH4	VOC
2.500	Tons/Yr	Total from Coating Lines as CH4	VOC
129	LINE 10 COATING PROCESS (DEVON III)		
Emission Limit		Pollutant	
2.600	Lbs/Hr	Total from Coating Lines	NOX
7.100	Tons/Yr	Total from Coating Lines	NOX
0.040	gr/DRY FT3	particulate matter	TSP
0.400	Lbs/Hr	Total from Coating Lines as CH4	VOC
2.500	Tons/Yr	Total from Coating Lines as CH4	VOC

**SECTION G. Emission Restriction Summary.**

Source Id	Source Descriptor		
130	LINE 11 COATING PROCESS (DEVON III)		
Emission Limit			
2.600	Lbs/Hr	Total from Coating Lines	NOX
7.100	Tons/Yr	Total from Coating Lines	NOX
0.040	gr/DRY FT3	particulate matter	TSP
0.400	Lbs/Hr	Total from Coating Lines as CH4	VOC
2.500	Tons/Yr	Total from Coating Lines as CH4	VOC
136	LINE 14 2-STAGE DOSING STATION		
Emission Limit			
0.040	gr/DRY FT3	particulate matter	TSP
137	LINE 15 2-STAGE DOSING STATION		
Emission Limit			
0.040	gr/DRY FT3	particulate matter	TSP
199	650-KW BACKUP DIESEL GENERATOR		
Emission Limit			
1.960	Lbs/Hr		CO
6.900	GRAMS/HP-Hr		NOX
11.340	Lbs/Hr		NOX
0.040	gr/DRY FT3	particulate matter	TSP
200A	400-KW DIESEL EMERGENCY GENERATOR		
Emission Limit			
6.900	GRAMS/HP-Hr		NOX
0.400	gr/DRY FT3	particulate matter	TSP
203	LINE 14 DRYING & CALCINING		
Emission Limit			
10.000	PPMV	post-SCR system	Ammonia (Anhydrous)
11.000	Tons/Yr	12-month rolling sum	NOX
13.400	Lbs/Hr	hourly maximum	NOX
1.100	Lbs/Hr	hourly maximum as CH4	VOC
2.500	Tons/Yr	12-month rolling sum as CH4	VOC
204	LINE 15 DRYING & CALCINING		
Emission Limit			
10.000	PPMV	post-SCR system	Ammonia (Anhydrous)
11.000	Tons/Yr	12-month rolling sum	NOX
13.400	Lbs/Hr	hourly maximum	NOX
1.100	Lbs/Hr	hourly maximum as CH4	VOC
2.500	Tons/Yr	12-month rolling sum as CH4	VOC

**SECTION G. Emission Restriction Summary.**

Source Id	Source Descriptor		
302	WASHCOAT BLENDING TANKS		
Emission Limit			
0.020	gr/DRY FT3	particulate matter	TSP
732	EMERGENCY GENERATOR (DETROIT 650 KW)		
Emission Limit			
6.900	GRAMS/HP-Hr		NOX
0.040	gr/DRY FT3	particulate matter	TSP
735A	GAS FIRED HEATERS		
Emission Limit			
500.000	PPMV	dry basis	SOX
C012C	AMMONIA SCRUBBER (DEVON III)		
Emission Limit			
10.000	PPMV	on dry basis	Ammonia (Anhydrous)
15.000	PPMV	on dry basis as NO2	NOX
20.000	PPMV	on dry basis as CH4	VOC
C013C	DEVON III AREA DUST COLLECTOR		
Emission Limit			
0.020	gr/DRY FT3	dry basis	TSP
C015A	BLENDING TANKS DUST COLLECTOR 3		
Emission Limit			
0.020	gr/DRY FT3	particulate matter	TSP
C018	LINE 14 AMMONIA SCRUBBER		
Emission Limit			
10.000	PPMV	on dry basis	Ammonia (Anhydrous)
20.000	PPMV	on dry basis as CH4	VOC
C019	LINE 15 AMMONIA SCRUBBER		
Emission Limit			
10.000	PPMV	on dry basis	Ammonia (Anhydrous)
C021	LINE 15 SCR SYSTEM		
Emission Limit			
10.000	PPMV	on dry basis	Ammonia

Site Emission Restriction Summary

Emission Limit			Pollutant
43.000 Tons/Yr	12-month rolling sum as CH4		VOC
9.900 Tons/Yr	any single HAP		Hazardous Air Pollutants

**SECTION G. Emission Restriction Summary.**

24.900 Tons/Yr	total HAPs	Hazardous Air Pollutants
38.050 Tons/Yr	12-month rolling sum as NO2	NOX

Alternative Operation Emission Restriction Summary

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

(a) Title V Operating Permit 15-00027 is a compilation of applicable requirements including those addressed in the following previously issued permits:

- (1) Operating Permit: OP-15-309-010 - SCR Catalyst Product System
- (2) Operating Permit: OP-15-399-038 - Catalyst Precoat Facility
- (3) Operating Permit: OP-15-399-035 - Dust Collector #2
- (4) Operating Permit: OP-15-399-036 - Rare Earth Coating Process
- (5) Operating Permit: OP-15-309-015 - SCR Catalyst Product System
- (6) Operating Permit: OP-15-309-016 - Four Catalyst Drying Ovens
- (7) Operating Permit: OP-15-323-008 - Metal Support Buffing Operation
- (8) Operating Permit: OP-15-323-009 - Chip Remover Machine
- (9) Operating Permit: OP-15-318-010D - Prod. Scrubber System I (Mod.)
- (10) Operating Permit: OP-15-0027 - Facility VOC/NOx RACT

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

- (1) Four Batching Mixer Stations (Devon II)
- (2) Two Process Ovens
- (3) Spray Dryer
- (4) Four Catalyst Drying Ovens (Devon II)
- (5) Two precious metals solution storage tank systems (Devon II)
- (6) Two blending solution storage tank systems (Devon II)
- (7) Two containment room ventilation systems (Devon II)
- (8) Four underground storage (gasoline) tanks (UST) (RFD #15-A01-844)
- (9) Spray Painting Operations
- (10) All Pilot Plant and lab Equipment: One Stamper (packaging shipping, batching, coating, impregnation room, lab, oven, and other areas)
- (11) Bickley Static Oven
- (12) 300,000 BTU/hr Gas-Fired Water Heater in Batching Department
- (13) Automotive emissions testing operations (Engine Test Lab Emissions)
- (14) Emissions generated from drum labeling and catalyst sampling
- (15) Containment rooms associated with Devon II Process Lines
- (16) Parts Washers using non-VOC cleaners
- (17) Tech Center - Exhaust #2 (RFD #15-328-328)
- (18) Nine (9) Space Heaters (RFD #15-A01-649)
- (19) Four Underground Gasoline Storage Tanks (RFD #15-A01-775)
- (20) Two Engine Test Cells (Diesel Fuel-Fired) (RFD #15-A01-974)
- (21) Natural Gas-Fired Space Heaters (RFD #15-A01-973, and #15-A01-976)
- (22) Devon II hoods
- (23) Trial microwave oven (RFD #259)
- (24) Wiped Film Evaporator (RFD #371)
- (25) Lanly Dryer (RFD #489)
- (26) Modify pH of C012A, Acid Gas Scrubber (RFD #550)
- (27) Microwave oven to partially dry parts manufactured in the pilot plant (RFD #559)
- (28) Trial to change in airflow to SCR system, C012B (RFD # 1118)
- (29) Another dryer cell on the Line 10 production (RFD #1687)
- (30) System to ventilate vapors from two 70-gallon line tanks and two 1,000-gallon reserve tanks used to supply washcoat to the Devon 2, Line 15 for coating solutions onto diesel catalysts (RFD #1948)
- (31) System to ventilate sample preparation equipment in Devon II and Devon III batching offices (RFD #1960)
- (32) Combination microwave and convection oven for product trials (RFD #2001)
- (33) Reclassification of Source 118 powder handling equipment as de minimis due to limited emission and operating hours (RFD #2121) [its associated control device C08B].
- (34) Reclassification of Source C013A and associated sources as de minimis per RFD #2125 (e.g., Powder and ammonia hood controlled by C013A. Exhaust stream filter and exhausted inside of building.).
- (35) Rotary vane vacuum system for the coating of gasoline and diesel washcoat onto catalyst substrate on a prototype production line in Devon 2 (RFD #2140)
- (36) Add sulfuric acid tank ventilation (RFD #2454 and 2455)
- (37) Modified Line 7 dosing and drying: 2 dryer w/ microwave technology and 1 calcination oven (RFD #2978)

**SECTION H. Miscellaneous.**

- (b) The Permit 15-00027 (APS ID: 345911, Auth ID: 519776) has been administratively amended to incorporate Plan Approval conditions from PA-15-0027D (Coating Lines) and PA-15-0027E (Diesel Emergency Generator).
- (c) The Permit 15-00027 (APS ID: 341568, Auth ID: 573962) has been administratively amended to incorporate Plan Approval conditions from PA-15-0027F (Washcoat Batching System for Coating Lines 7, 10 and 11).
- (d) The Permit 15-00027 (APS ID: 341568, Auth ID: 612325) has been modified to relocate some existing equipment to new locations within the facility.
- (e) The Permit 15-00027 (APS ID: 341568, Auth ID: 636000) has been renewed and amended to incorporate conditions from Plan Approval No. 15-0027H (Three (3) Washcoat Batch Mixing Tanks).
- (f) The Permit 15-00027 (APS ID: 341568, Auth ID: 706102) has been administratively amended to incorporate the changes.
- (g) The Permit 15-00027 (APS ID: 341568, Auth ID: 758715) has been modified to change the pH operating range for the Acid Gas Scrubber (Source C012A) from 5.5 to 7.0 to 3.5 to 5.5.
- (h) The Permit 15-00027 (APS ID: 341568, Auth ID: 760682) has been modified to have all air flow from Sources 103, 128, 129, and 130 bypass the Acid Gas Scrubber (Source C012A) and go directly to the SCR system (Source C012B) or the atmosphere under specific conditions.
- (i) The Permit 15-00027 (APS ID: 341568, Auth ID: 824684) has been modified to revise the pH range for the Ammonia Scrubber (Source C012C) from 3.5 to 5 to 1 to 5.
- (j) The Permit 15-00027 (APS ID: 341568, Auth ID: 886097) has been modified to allow the vacuum clearance blower exhaust of the dosing stations on Line 11 (Source 130) to be removed from the pollution control system and vented to the atmosphere.
- (k) The Permit 15-00027 (APS ID: 341568, Auth ID: 913883) has been renewed.
- (l) The Permit 15-00027 (APS ID: 341568, Auth ID: 988589) has been administratively amended to incorporate Plan Approval(s) 15-0027J and 15-0027K.
- (m) ASP ID: 341568, AUTH ID: 1109503, Date: 12/2016 - minor permit modification:
- add an alternative operating schedule for Source ID 203 (Line 14), for install a bypassing duct line from the L14 NOx Scrubber outlet to L15 SCR inlet and treating Line 14 exhaust in Line 15 control system.
 - modify Line 14 and Line 15 VOC emission reduction requirements into: (1) 90% removal efficiency, or (2) 20 ppmvd as methane, specified under Source IDs C020 and C021.
- (n) ASP ID: 341568, AUTH ID: 1170940, Date: 9/2018 - Operating permit renewal, incorporating the following:
- RFD No. 5534: C08A1 baghouse replaced C08A baghouse.
 - RFD No. 3527: C0A1 and Source ID 117 are subject to 40 CFR Part 63 Subpart 7Cs.
- (o) The permit 15-00027 (ASP ID: 341568, AUTH ID: 1303310) has been administratively amended to incorporate Plan Approval 15-0027L.



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