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

# TITLE V/STATE OPERATING PERMIT

Issue Date: March 24, 2023 Effective Date: March 24, 2023

Expiration Date: February 29, 2028

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: 62-00032**

Federal Tax Id - Plant Code: 51-0442822-1

## Owner Information

Name: ELLWOOD NATIONAL FORGE
Mailing Address: 1 FRONT ST
IRVINE, PA 16329-1801

## Plant Information

Plant: ELLWOOD NATL FORGE/IRVINE
Location: 62 Warren County 62903 Brokenstraw Township
SIC Code: 3462 Manufacturing - Iron And Steel Forgings

## Responsible Official

Name: MICHAEL P. BARRETT
Title: PRESIDENT
Phone: (814) 563 - 8721 Email: mbarrett@elwd.com

## Permit Contact Person

Name: MIKE MATVEY
Title: CORPORATE ENVIR. MGR.
Phone: (724) 656 - 6437 Email: mmatvey@elwd.com

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

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## SECTION A. Site Inventory List

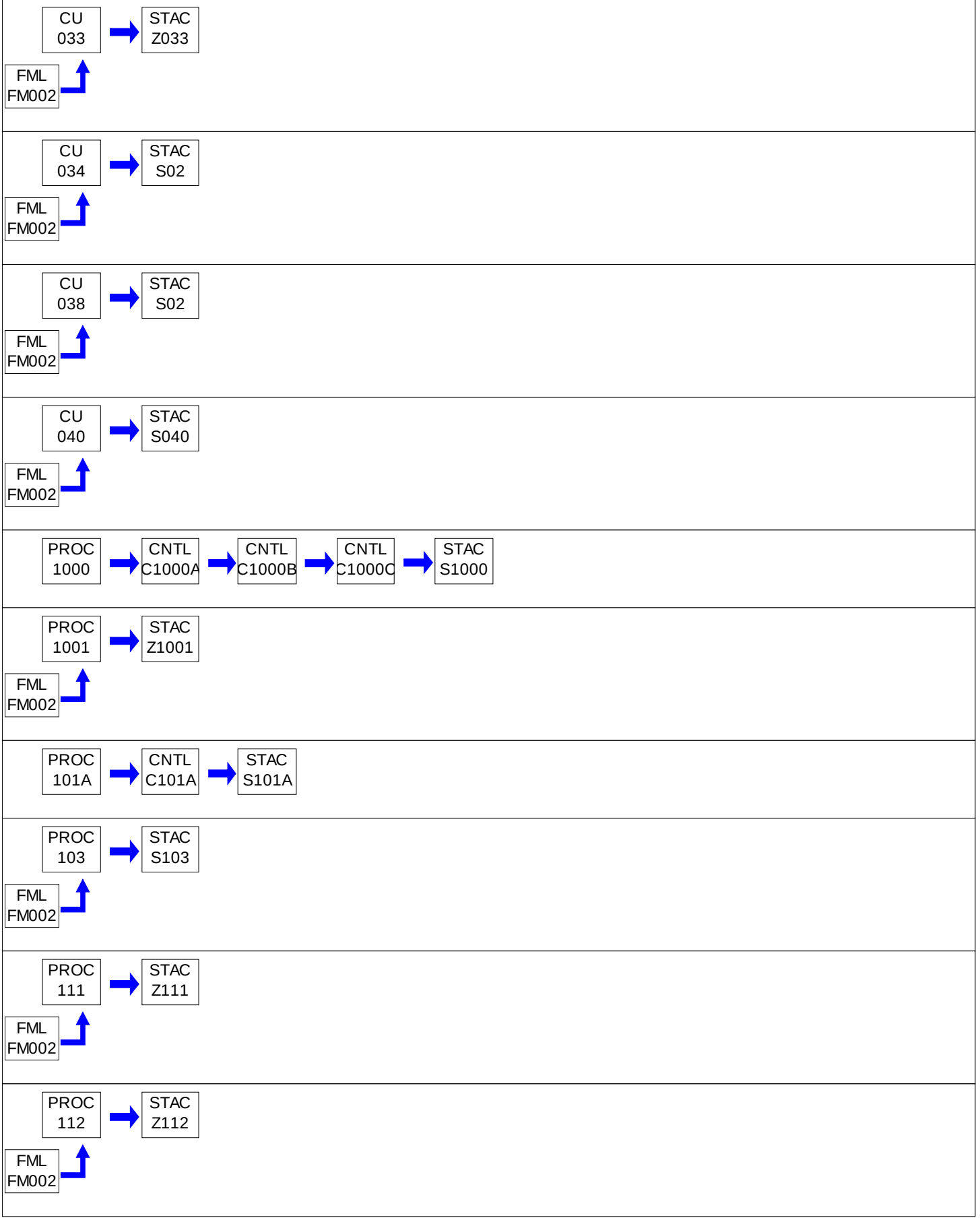
| Source ID | Source Name | Capacity/Throughput | | Fuel/Material |
|---|---|---|---|---|
| 033 | ENX NATURAL GAS SPACE HEATERS | 5.000 | MMBTU/HR | |
| | | 5.000 | MCF/HR | Natural Gas |
| 034 | ENF MIURA PACKAGE HEATING GAS BOILERS(2@11.8 MM BTU/HR EACH) | 23.600 | MMBTU/HR | |
| | | 23.600 | MCF/HR | Natural Gas |
| 038 | ENF MIURA NATURAL GAS BOILER #3 EQUIPMENT #976(11.5MMBTU/HR) | 11.500 | MMBTU/HR | |
| | | 11.500 | MCF/HR | Natural Gas |
| 040 | ENS WEISHAUPT NATURAL GAS BOILER (29.6 MMBTU/HR) | 29.600 | MMBTU/HR | |
| | | 28.200 | MCF/HR | Natural Gas |
| 1000 | ENS VACUUM OXYGEN DECARBURIZATION (VOD) | 1.000 | Tons/HR | STEEL |
| 1001 | ENS 2ND HORIZONTAL PREHEATER | 12.000 | MMBTU/HR | |
| | | 1.000 | MCF/HR | Natural Gas |
| 101A | ENS 45T ELECTRIC ARC FURNACE | 22.500 | Tons/HR | STEEL |
| 103 | ENS ANNEALING FURNACES #2, #3 & #4 (3) | 84.000 | MCF/HR | Natural Gas |
| | | 30.000 | Tons/HR | STEEL |
| 111 | ENF HEAT TREAT FURNACES (13) | 72.000 | MCF/HR | Natural Gas |
| | | 3.000 | Tons/HR | STEEL |
| 112 | ENC HEAT TREAT FURNACES (7 HORIZONTAL; 2 OTHER) | 114.000 | MCF/HR | Natural Gas |
| | | 3.000 | Tons/HR | STEEL |
| 114 | ENC CRANKSHAFT FILE AND GRIND PROCESS | 2.000 | Tons/HR | STEEL |
| 115 | ENS VACUUM DEGASSER | 22.500 | Tons/HR | STEEL |
| 116 | ENS TEEMING | 22.500 | Tons/HR | MOLTEN STEEL |
| 117 | ENS SCRAP HANDLING | 25.000 | Tons/HR | SCRAP STEEL |
| 118 | ENS SLAG HANDLING | 10.000 | Tons/HR | SLAG |
| 119 | ENX VEHICLE TRAVEL | 1.000 | Miles/HR | TRUCKS |
| 121 | ENC CRANKSHAFT DEGREASING | 1.000 | Gal/HR | SOLVENT DEGREASING |
| 122 | ENS LADLE FURNACE | 1.000 | Tons/HR | STEEL |
| 123 | ENX DEGREASER UNITS (4) | 1.000 | Lbs/HR | SOLVENT |
| 127 | ENS PIPE MOLD CLEANING MACHINE | 1.000 | Tons/HR | STEEL |
| 129 | ENF/ENC 'NEW' NAT GAS FUELED EMERG GENERATORS (7) 5KW-125 KW | 1.000 | MCF/HR | Natural Gas |
| 130 | ENF 'EXISTING' EMERG ENGINES: 1 NAT GAS 20HP, 1 DIESEL 244HP | 1.000 | Gal/HR | Diesel Fuel |
| | | 1.000 | MCF/HR | Natural Gas |
| 131 | ENF CUMMINS NAT GAS EMER GEN 42KW 56HP INSTALLED 8/23/2006 | 1.000 | MCF/HR | Natural Gas |
| 140 | ENF SPRAY BOOTH FOR SURFACE COATING | 1.000 | Gal/HR | COATING |
| 141 | ENS MOLD CLEANING BLAST STATION, EAST | 1.000 | Tons/HR | METAL |
| 631 | ENC NITRIDE FURNACE | 1.000 | Tons/HR | STEEL |
| 632 | ENC NITRIDE FURNACE | 1.000 | Tons/HR | STEEL |
| 633 | ENC NITRIDE FURNACE | 1.000 | Tons/HR | STEEL |
| 634 | ENC NITRIDE FURNACE | 1.000 | Tons/HR | STEEL |
| 635 | ENC NITRIDE FURNACE | 1.000 | Tons/HR | STEEL |
| C1000A | VOD AIR COOLER CYCLONE SEPARATOR | | | |

## SECTION A. Site Inventory List

| Source ID | Source Name | Capacity/Throughput | Fuel/Material |
|---|---|---|---|
| C1000B | VOD FABRIC COLLECTOR | | |
| C1000C | VOD CO FLARE | | |
| C101A | INDUSTRIAL CLEAN AIR BAGHOUSE FOR ELECTRIC ARC FURNACE | | |
| C114A | CRANKSHAFT BUFF N FILE DUST COLLECTOR | | |
| C122 | LADLE FURNACE BAGHOUSE | | |
| C127 | BAGHOUSE OF PIPE MOLD CLEANING MACHINE | | |
| C140 | SPRAY BOOTH FILTERS | | |
| C141 | ENS MOLD BLAST DUST COLLECTOR AT WEST TEEMING PIT | | |
| C631A | AMMONIA GAS NEUTRALIZER #3 | | |
| C632A | AMMONIA GAS NEUTRALIZER #1 | | |
| C634A | AMMONIA GAS NEUTRALIZER #2 | | |
| FM002 | NATURAL GAS LINE | | |
| S02 | UNION IRON BOILER STACK | | |
| S040 | DEGASSER BOILER STACK | | |
| S1000 | VOD FLARE STACK | | |
| S101A | ELECTRIC ARC FURNACE STACK | | |
| S103 | ANNEALING FURNACE STACK | | |
| S114A | STACK FOR CRANKSHAFT FILE & GRIND DUST COLLECTOR | | |
| S122 | LADLE FURNACE BAGHOUSE STACK | | |
| S127 | STACK FROM PIPE MOLD CLEANING BAGHOUSE | | |
| S129 | STACKS FOR 'NEW' EMERGENCY GENERATORS (7) | | |
| S130 | STACKS FOR EXISTING EMERGENCY ENGINES (3) | | |
| S131 | STACK FOR CUMMINS EMERG. GEN | | |
| S140 | STACKS FOR SPRAY BOOTHS | | |
| S631 | AMMONIA GAS NEUTRALIZER #3 STACK | | |
| S632A | AMMONIA GAS NEUTRALIZER #1 STACK | | |
| S634A | AMMONIA GAS NEUTRALIZER #2 STACK | | |
| Z033 | SPACE HEATERS FUGITIVE EMISSIONS | | |
| Z1001 | VERTICAL DRYERS FUGITIVES | | |
| Z111 | ENF HEAT TREAT FUGITIVE EMISSIONS | | |
| Z112 | ENC HEAT TREAT FUGITIVE EMISSIONS | | |
| Z115 | VACUUM DEGASSER FUGITIVE EMISSIONS | | |
| Z116 | TEEMING FUGITIVE EMISSIONS | | |
| Z117 | SCRAP HANDLING FUGITIVE EMISSIONS | | |
| Z118 | SLAG HANDLING FUGITIVE EMISSIONS | | |
| Z119 | PLANT ROADWAY FUGITIVE EMISSIONS | | |
| Z121 | ENC DEGREASING FUGITIVE EMISSIONS | | |
| Z123 | FUGITIVES FROM DEGREASERS | | |

## PERMIT MAPS

## PERMIT MAPS


CU 033
STAC Z033
FML FM002
CU 034
STAC S02
FML FM002
CU 038
STAC S02
FML FM002
CU 040
STAC S040
FML FM002
PROC 1000
CNTL C1000A
CNTL C1000B
CNTL C1000C
STAC S1000
PROC 1001
STAC Z1001
FML FM002
PROC 101A
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FML FM002
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STAC Z112
FML FM002

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|---|---|---|
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| PROC 115 | STAC Z115 | |
| PROC 116 | STAC Z116 | |
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| PROC 118 | STAC Z118 | |
| PROC 119 | STAC Z119 | |
| PROC 121 | STAC Z121 | |
| PROC 122 | CNTL C122 | STAC S122 |
| PROC 123 | STAC Z123 | |
| PROC 127 | CNTL C127 | STAC S127 |
| PROC 129 | STAC S129 | |
| PROC 130 | STAC S130 | |
| PROC 131 | STAC S131 | |
| PROC 140 | CNTL C140 | STAC S140 |
| PROC 141 | CNTL C122 | STAC S122 |

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| | | |
|---|---|---|
| PROC 631 | CNTL C631A | STAC S631 |
| PROC 632 | CNTL C632A | STAC S632A |
| PROC 633 | CNTL C632A | STAC S632A |
| PROC 634 | CNTL C634A | STAC S634A |
| PROC 635 | CNTL C634A | STAC S634A |

## 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 & 127.704(b)]**

**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. The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.

(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

## SECTION B. General Title V Requirements

the Department.

(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.

## SECTION B. General Title V Requirements

**#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 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].

## SECTION B. General Title V Requirements

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

(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.

## SECTION B. General Title V Requirements

(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).

(e) The permittee shall pay an annual operating permit maintenance fee according to the following fee schedule established in 25 Pa. Code § 127.704(d) on or before December 31 of each year for the next calendar year.

(1) Eight thousand dollars ($8,000) for calendar years 2021—2025.

(2) Ten thousand dollars ($10,000) for calendar years 2026—2030.

(3) Twelve thousand five hundred dollars ($12,500) for the calendar years beginning with 2031.

**#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 NOx from a single source during the term of the permit and 5 tons of NOx 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.

## SECTION B. General Title V Requirements

(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.

(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

## SECTION B. General Title V Requirements

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, 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:

Enforcement & Compliance Assurance Division
Air, RCRA and Toxics Branch (3ED21)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, PA 19103-2852

The Title V compliance certification shall be emailed to EPA at R3_APD_Permits@epa.gov.

(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 § 127.513]**

**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

## SECTION B. General Title V Requirements

the date of issuance of this Title V Operating Permit, or on the submittal date specified elsewhere in the permit, to the Department in accordance with the submission requirements specified in Section B, Condition #022 of this permit. The Title V compliance certification shall be emailed to EPA at R3_APD_Permits@epa.gov.

**#025 [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.

(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.

**#026 [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.

## SECTION B. General Title V Requirements

**#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)

(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.

## SECTION B. General Title V Requirements

(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.

(2) The permittee fails to submit a compliance schedule or include a statement in the compliance certification required under Section B, Condition #026 of this 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 §123.1]**

**Prohibition of certain fugitive emissions**

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

(1) Construction or demolition of buildings or structures.

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

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

(4) Clearing of land.

(5) Stockpiling of materials.

(6) Open burning operations.

(7) [Not applicable]

(8) [Not applicable]

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

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

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

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

(c) [Paragraph (c) of the regulation is printed under WORK PRACTICE REQUIREMENTS in this section of permit.]

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

**# 002 [25 Pa. Code §123.2]**

**Fugitive particulate matter**

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 25 Pa. Code § 123.1(a)(1) -- (9) (relating to prohibition of certain fugitive emissions) [Condition #001 above] if such emissions are visible at the point the emissions pass outside the person's property.

**# 003 [25 Pa. Code §123.31]**

**Limitations**

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

## SECTION C. Site Level Requirements

**# 004 [25 Pa. Code §123.41]**

**Limitations**

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

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

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

**# 005 [25 Pa. Code §123.42]**

**Exceptions**

The limitations of 25 Pa. Code § 123.41 (relating to limitations) shall not apply to a visible emission in any of the following instances:

(1) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.

(2) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.

(3) When the emission results from sources specified in 25 Pa. Code § 123.1(a)(1) -- (9) (relating to prohibition of certain fugitive emissions). [123.1(a)(1) -- (9) are printed under Emission Restrictions of Condition #001 in this section of permit.]

(4) [Not applicable]

### Throughput Restriction(s).

**# 006 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The production of steel ingots from the facility shall not exceed 150,000 ton of steel ingots per year (based on a 12 month rolling total).

[From plan approvals 62-032B and 62-032F]

### II. TESTING REQUIREMENTS.

**# 007 [25 Pa. Code §123.43]**

**Measuring techniques**

Visible emissions may be measured using either of the following:

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

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

**# 008 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

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

### III. MONITORING REQUIREMENTS.

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

## SECTION C. Site Level Requirements

### IV. RECORDKEEPING REQUIREMENTS.

**# 009 [25 Pa. Code §135.5]**

**Recordkeeping**

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

### V. REPORTING REQUIREMENTS.

**# 010 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

(a) The 6-month monitoring and deviation report, required under Section B Condition #025(b), shall be submitted to the Department within 30-days of the end of the reporting period.

The 6-month monitoring/deviation report shall cover the following periods unless otherwise approved by the Department:

(1) April 1 through September 30
(2) October 1 through March 31

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

The annual compliance certification shall cover the following period unless otherwise approved by the Department.

• April 1 through March 31.

(c) Electronic submissions to the Northwest Regional Office Air Quality program should be submitted by use of the OnBase-DEP Upload Form at the following web address in lieu of sending paper copies to the Department.

https://www.dep.pa.gov/DataandTools/Pages/Application-Form-Upload.aspx

(d) Electronic compliance certifications may be sent to the EPA at the following email address.

R3_APD_Permits@epa.gov

Include the following in the email subject line:
• name of facility, state, and Title V operating permit number.

### VI. WORK PRACTICE REQUIREMENTS.

**# 011 [25 Pa. Code §123.1]**

**Prohibition of certain fugitive emissions**

(a) - (b) [Paragraphs (a) and (b) of 25 Pa. Code § 123.1 are printed under Emission Restrictions in this section of permit.]

(c) A person responsible for any source specified in 25 Pa. Code § 123.1(a)(1) -- (7) or (9) [Condition 001 above] shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

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

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

## SECTION C. Site Level Requirements

(3) Paving and maintenance of roadways.

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

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

**# 012 [25 Pa. Code §129.14]**

**Open burning operations**

(a) Air basins. [Paragraph (a) of the regulation is not applicable to this facility.]

(b) Outside of air basins. No person may permit the open burning of material in an area outside of air basins in a manner that:

(1) The emissions are visible, at any time, at the point such emissions pass outside the property of the person on whose land the open burning is being conducted.

(2) Malodorous air contaminants from the open burning are detectable outside the property of the person on whose land the open burning is being conducted.

(3) The emissions interfere with the reasonable enjoyment of life or property.

(4) The emissions cause damage to vegetation or property.

(5) The emissions are or may be deleterious to human or animal health.

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

(1) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.

(2) A fire set for the purpose of instructing personnel in fire-fighting, when approved by the Department.

(3) A fire set for the prevention and control of disease or pests, when approved by the Department.

(4) [Not applicable]

(5) [Not applicable]

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

(7) A fire set solely for cooking food.

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

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

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

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

(2) [Not applicable]

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

## SECTION C. Site Level Requirements

following limitations:

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

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

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

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

### VII. ADDITIONAL REQUIREMENTS.

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

### VIII. COMPLIANCE CERTIFICATION.

The permittee shall submit within thirty days of 03/31/2023 a certificate of compliance with all permit terms and conditions set forth in this Title V permit as required under condition #026 of section B of this permit, and annually thereafter.

### IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

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

## SECTION D. Source Level Requirements

Source ID: 033 Source Name: ENX NATURAL GAS SPACE HEATERS

Source Capacity/Throughput: 5.000 MMBTU/HR
5.000 MCF/HR Natural Gas


### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The NOx emissions from the space heaters shall not exceed 94 lb/MMCF and 4.23 tpy (based on a 12-month rolling total).

[This condition replaces the following condition from Plan Approval 62-032H: The NOx emissions from the space heaters shall not exceed 94 lb/MMCF and 0.94 TPY (based on a 12-month rolling total).]

(b) The CO emissions from the space heaters shall not exceed 40 lb/MMCF and 1.80 tpy (based on a 12-month rolling total).

[This condition replaces the following condition from Plan Approval 62-032H: The CO emissions from the space heaters shall not exceed 40 lb/MMCF and 0.40 TPY (based on a 12-month rolling total).]

(c) The SOx emissions from the space heaters shall not exceed 0.6 lb/MMCF and 0.027 tpy (based on a 12-month rolling total).

[This condition replaces the following condition from Plan Approval 62-032H: The SOx emissions from the space heaters shall not exceed 0.6 lb/MMCF and 0.01 TPY (based on a 12-month rolling total).]

(d) The VOC emissions from the space heaters shall not exceed 5.5 lb/MMCF and 0.248 tpy (based on a 12-month rolling total).

[This condition replaces the following condition from Plan Approval 62-032H: The VOC emissions from the space heaters shall not exceed 5.5 lb/MMCF and 0.06 TPY (based on a 12-month rolling total).]

(e) The PM-10 emissions from the space heaters shall not exceed 7.6 lb/MMCF and 0.342 tpy (based on a 12-month rolling total).

[This condition replaces the following condition from Plan Approval 62-032H: The PM-10 emissions from the space heaters shall not exceed 7.6 lb/MMCF and 0.08 TPY (based on a 12-month rolling total).]

[Parts (a) through (e) are from Plan Approval 62-032O issued on Feb. 26, 2020.]

### Fuel Restriction(s).

**# 002 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall use only natural gas for this source.

## SECTION D. Source Level Requirements

### Throughput Restriction(s).

**# 003 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The total natural gas consumption from the space heaters shall not exceed 90,000 MCF of natural gas per year (based on a 12-month rolling total).

[From Plan Approval 62-032O, Section D, Source 033, Condition #002. This condition replaces the following condition from Plan Approval 62-032H: The total natural gas consumption from the space heaters shall not exceed 20,000 MCF of natural gas per year (based on a 12-month rolling total).]

### 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.**

The permittee shall monitor the natural gas used by the source using a gas flow meter or equivalent method as determined by the Department.

### IV. RECORDKEEPING REQUIREMENTS.

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

(a) The permittee shall keep records of the natural gas usage on monthly basis.

(b) The permittee shall keep a record of the hours of operation of the source.

(c) The permittee shall keep a record of the emissions from the source.

(d) The records shall be maintained for a minimum of 5 years.

### 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 D. Source Level Requirements

Source ID: 034 Source Name: ENF MIURA PACKAGE HEATING GAS BOILERS(2@11.8 MM BTU/HR EACH)

Source Capacity/Throughput: 23.600 MMBTU/HR
23.600 MCF/HR Natural Gas


### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The NOx emissions from the package heating Boilers shall not exceed 50 lb/MMCF and 1.63 tpy (based on a 12-month rolling total).

[This condition replaces the previous limit of 2.00 tpy.]

(b) The CO emissions from the package heating Boilers shall not exceed 84 lb/MMCF and 2.73 tpy (based on a 12-month rolling total).

[This condition replaces the previous limit of 3.36 tpy.]

(c) The SOx emissions from the package heating Boilers shall not exceed 0.6 lb/MMCF and 0.02 tpy (based on a 12-month rolling total).

(d) The VOC emissions from thh package heating Boilers shall not exceed 5.5 lb/MMCF and 0.18 tpy (based on a 12-month rolling total).

This condition replaces the previous limit of 0.22 tpy.]

(e) The PM-10 emissions from the package heating Boilers shall not exceed 7.6 lb/MMCF and 0.25 tpy (based on a 12-month rolling total).

[This condition replaces the previous limit of 0.30 tpy.]

[From Plan Approval 62-032H]

### Fuel Restriction(s).

**# 002 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall use only natural gas for this source.

### Throughput Restriction(s).

**# 003 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The total natural gas consumption from the package heating Boilers shall not exceed 65,000 MCF of natural gas per year (based on a 12-month rolling total).

[From: Plan Approval 62-032H. This condition replaces the previous limit of 80,000 MCF/yr.]

## 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).

### III. MONITORING REQUIREMENTS.

**# 004 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall monitor the natural gas used by the source using a gas flow meter or equivalent method as determined by the Department.

### IV. RECORDKEEPING REQUIREMENTS.

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

(a) The permittee shall keep records of the natural gas usage on monthly basis.

(b) The permittee shall keep a record of the hours of operation of the source.

(c) The permittee shall keep a record of the emissions from the source.

(d) The records shall be maintained for a minimum of 5 years.

### 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).

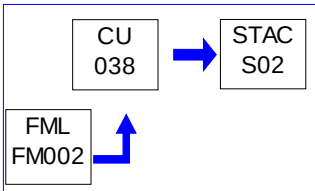
***** Permit Shield in Effect. *****

## SECTION D. Source Level Requirements

Source ID: 038 Source Name: ENF MIURA NATURAL GAS BOILER #3 EQUIPMENT #976(11.5MMBTU/HR)

Source Capacity/Throughput: 11.500 MMBTU/HR
11.500 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 01 - 40 CFR PART 60 SUBPART DC




### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The NOx emissions from Source 038 shall not exceed 24 lb/MMCF and 0.39 tpy (based on a 12-month rolling total).

(b) The CO emissions from Source 038 shall not exceed 72 lb/MMCF and 1.20 tpy (based on a 12-month rolling total).

(c) The SOx emissions from Source 038 shall not exceed 5.4 lb/MMCF and 0.09 tpy (based on a 12-month rolling total).

(d) The VOC emissions from Source 038 shall not exceed 5.3 lb/MMCF and 0.09 tpy (based on a 12-month rolling total).

(e) The PM-10 emissions from Source 038 shall not exceed 7.3 lb/MMCF and 0.12 tpy (based on a 12-month rolling total).

[From Plan Approval 62-032O issued on Feb. 26, 2020, as modifed with the 2023 issuance of the TV renewal to incoporate the provisions of 62-032O and reflect that the permittee did not install the boiler of Source 039 which was also authorized by 62-032O.]

**# 002 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The permittee shall construct qualifying small gas fired combustion units capable of reducing nitrogen oxides (NOx) and carbon monoxide (CO) emissions to or below:

(a) 30 ppmdv NOx at 3% O2

(b) 300 ppmdv CO at 3% O2

[From Condition # 17.a of General Plan Approval BAQ-GPA/GP-1-62-032C (Rev. 7/2004) issued for Source 038 on Nov. 22, 2019, and from Plan Approval 62-032O issued on Feb. 26, 2020.]

**# 003 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The natural gas consumption shall not exceed 65 MMCF of natural gas per year (calculated as a 12-month rolling total) for Source 038 & Source 039 combined.

[From Plan Approval 62-032O issued on Feb. 26, 2020. Note that the permittee did not install the boiler of Source 039.]

### Fuel Restriction(s).

**# 004 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The combustion unit(s) shall be fired only on natural gas.

## SECTION D. Source Level Requirements

[From Condition # 17 of General Plan Approval BAQ-GPA/GP-1-62-032C (Rev. 7/2004) issued for Source 038 on Nov. 22, 2019; and from Plan Approval 62-032O issued on Feb. 26, 2020.]

### II. TESTING REQUIREMENTS.

**# 005 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

No later than 180 days after initial start-up, the permittee shall demonstrate compliance with the emission limitations for NOx, and CO established for the boiler. The demonstration may include either of the following methods:

(a) Performance stack testing in accordance with applicable provisions of 25 Pa. Code Chapter 139 (relating to sampling and testing).

(b) Portable analyzers approved by the Department.

(c) Recent test data approved by the Department for identical boilers.

[From Condition # 7 of General Plan Approval BAQ-GPA/GP-1-62-032C (Rev. 7/2004) issued for Source 038 on Nov. 22, 2019, and from Plan Approval 62-032O issued on Feb. 26, 2020.]

**# 006 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The permittee shall, upon the request of the Department, provide fuel analyses, or fuel samples of the fuel used in any combustion unit authorized to operate under this general permit.

[From Condition # 7 of General Plan Approval BAQ-GPA/GP-1-62-032C (Rev. 7/2004) issued for Source 038 on Nov. 22, 2019; and from Plan Approval 62-032O issued on Feb. 26, 2020.]

**# 007 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

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

[From Condition # 7 of General Plan Approval BAQ-GPA/GP-1-62-032C (Rev. 7/2004) issued for Source 038 on Nov. 22, 2019.]

### III. MONITORING REQUIREMENTS.

**# 008 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

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

[From Condition # 8 of General Plan Approval BAQ-GPA/GP-1-62-032C (Rev. 7/2004) issued for Source 038 on Nov. 22, 2019; and from Plan Approval 62-032O issued on Feb. 26, 2020.]

**# 009 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The permittee shall install and maintain the necessary meter(s) to determine and to record amount of fuel usage to comply with the New Source Performance Standards prescribed in 40 CFR Part 60 Subpart Dc.

[From Condition # 16.a of General Plan Approval BAQ-GPA/GP-1-62-032C (Rev. 7/2004) issued for Source 038 on Nov. 22, 2019; and from Plan Approval 62-032O issued on Feb. 26, 2020.]

## SECTION D. Source Level Requirements

### IV. RECORDKEEPING REQUIREMENTS.

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

### V. REPORTING REQUIREMENTS.

**# 010 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

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

[From Condition # 6 of General Plan Approval BAQ-GPA/GP-1-62-032C (Rev. 7/2004) issued for Source 038 on Nov. 22, 2019; and from Plan Approval 62-032O issued on Feb. 26, 2020.]

### VI. WORK PRACTICE REQUIREMENTS.

**# 011 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The combustion unit and any associated air cleaning devices shall be:

(a) Operated in such a manner as not to cause air pollution.

(b) Operated and maintained in a manner consistent with good operating and maintenance practices.

(c) Operated and maintained in accordance with the manufacturer's specifications.

[From Condition # 4 of General Plan Approval BAQ-GPA/GP-1-62-032C (Rev. 7/2004) issued for Source 038 on Nov. 22, 2019; and from Plan Approval 62-032O issued on Feb. 26, 2020.]

### VII. ADDITIONAL REQUIREMENTS.

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

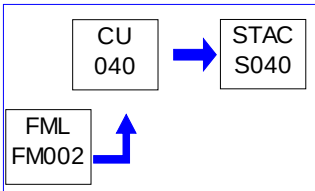
***** Permit Shield in Effect. *****

## SECTION D. Source Level Requirements

Source ID: 040 Source Name: ENS WEISHAUPT NATURAL GAS BOILER (29.6 MMBTU/HR)

Source Capacity/Throughput: 29.600 MMBTU/HR
28.200 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 01 - 40 CFR PART 60 SUBPART DC




### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The permittee shall construct qualifying small gas fired combustion units capable of reducing nitrogen oxides (NOx) and carbon monoxide (CO) emissions to or below:

(a) 30 ppmdv NOx at 3% O2

(b) 300 ppmdv CO at 3% O2

[From Condition # 17.a of General Plan Approval BAQ-GPA/GP-1-62-032A (Rev. 7/2004) issued for Source 040 on Feb. 27, 2013.]

**# 002 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The NOx emissions from the Weishaupt Boiler shall not exceed 36.4 lb/mmcf and 0.3 TPY (based on the 15 MMCF limit of natural gas).

[These limits were requested by the permittee in the application for plan approval 62-032J and added to the TV permit at the 1/30/2018 renewal.]

**# 003 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The natural gas consumption shall not exceed 15 MMCF of natural gas per year (calculated as a 12-month rolling total).

[This throughput limit was requested by the permittee in the application for plan approval 62-032J and added to the TV permit at the 1/30/2018 renewal.]

### Fuel Restriction(s).

**# 004 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The combustion unit(s) shall be fired only on natural gas.

[From Condition # 17 of General Plan Approval BAQ-GPA/GP-1-62-032A (Rev. 7/2004) issued for Source 040 on Feb. 27, 2013.]

### II. TESTING REQUIREMENTS.

**# 005 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

If, at any time, the Department has cause to believe that air contaminant emissions from a combustion unit are in excess of

## SECTION D. Source Level Requirements

the limitations specified in, or established pursuant to, any applicable regulation contained in 25 Pa. Code, Subpart C, Article III, the permittee shall conduct tests deemed necessary by the Department to determine the actual emission rate(s).

[From Condition # 7 of General Plan Approval BAQ-GPA/GP-1-62-032A (Rev. 7/2004) issued for Source 040 on Feb. 27, 2013.]

**# 006 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The permittee shall, upon the request of the Department, provide fuel analyses, or fuel samples of the fuel used in any combustion unit authorized to operate under this general permit.

[From Condition # 7 of General Plan Approval BAQ-GPA/GP-1-62-032A (Rev. 7/2004) issued for Source 040 on Feb. 27, 2013.]

### III. MONITORING REQUIREMENTS.

**# 007 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The permittee shall install and maintain the necessary meter(s) to determine and to record amount of fuel usage to comply with the New Source Performance Standards prescribed in 40 CFR Part 60 Subpart Dc.

[From Condition # 16.a of General Plan Approval BAQ-GPA/GP-1-62-032A (Rev. 7/2004) issued for Source 040 on Feb. 27, 2013.]

### 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.

**# 008 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

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

[From Condition # 6 of General Plan Approval BAQ-GPA/GP-1-62-032A (Rev. 7/2004) issued for Source 040 on Feb. 27, 2013.]

### VI. WORK PRACTICE REQUIREMENTS.

**# 009 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The combustion unit and any associated air cleaning devices shall be:

(a) Operated in such a manner as not to cause air pollution.

(b) Operated and maintained in a manner consistent with good operating and maintenance practices.

(c) Operated and maintained in accordance with the manufacturer's specifications.

[From Condition # 4 of General Plan Approval BAQ-GPA/GP-1-62-032A (Rev. 7/2004) issued for Source 040 on Feb. 27, 2013.]

## 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: 1000 Source Name: ENS VACUUM OXYGEN DECARBURIZATION (VOD)

Source Capacity/Throughput: 1.000 Tons/HR STEEL


### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The NOx emissions shall not exceed 0.75 tpy (calculated as a 12-month rolling total).

[This condition supersedes the following condition from Plan Approval 62-032I and eRFD #6727: The NOx emissions shall not exceed 0.41 TPY (calculated as a 12-month rolling total).]

(b) The CO emissions shall not exceed 28.0 tpy (calculated as a 12-month rolling total).

[This condition supersedes the following condition from Plan Approval 62-032I and eRFD #6727: The CO emissions shall not exceed 15.2 TPY (calculated as a 12-month rolling total).]

(c) The SOx emissions shall not exceed 0.0045 tpy (calculated as a 12-month rolling total).

[This condition supersedes the following condition from Plan Approval 62-032I and eRFD #6727: The SOx emissions shall not exceed 0.0024 TPY (calculated as a 12-month rolling total).]

(d) The VOC emissions shall not exceed 0.045 tpy (calculated as a 12-month rolling total).

[This condition supersedes the following condition from Plan Approval 62-032I and eRFD #6727: The VOC emissions shall not exceed 0.023 TPY (calculated as a 12-month rolling total).]

(e) The PM-10 emissions shall not exceed 3.75 tpy (calculated as a 12-month rolling total).

[This condition supersedes the following condition from Plan Approval 62-032I and eRFD #6727: The PM-10 emissions shall not exceed 2.04 TPY (calculated as a 12-month rolling total).]

[Parts (a) through (e) are from Plan Approval 62-032M.]

### Throughput Restriction(s).

**# 002 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

Throughput from the source shall not exceed 100,000 tpy based on a 12-month rolling total.

[From Plan Approval 62-032M]

### 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 §127.12b]**

**Plan approval terms and conditions.**

The following are CAM requirements.

(a) The permittee shall use the approved process parameter(s) or indicator(s) to obtain data and monitor the emission control equipment performance and shall use the approved mean(s) or device(s) to measure the applicable indicator(s).

(1) Pressure differential across the baghouse using manometer or equivalent for pressure drop across the baghouse

(2) Visible Emission (VE) observations at flare stack using an observer who meets the specifications of Federal Reference Method 9 and is qualified as a VE Evaluator

(3) Presence of flame for flare using thermocouple or equivalent for presence of flame

(4) Flow of natural gas to flare using orifice plate or equivalent for flow of natural gas

(b) The permittee shall use the approved frequency for conducting monitoring of indicators and shall use the approved period over which discrete data points for approved indicators will be collected and averaged for the purpose of determining an excursion.

(1) Pressure drop across the baghouse continuously - defined as at least once every 15 minutes and averaged over a 2 hour period.

(2) VE observations daily - defined as once per calendar day when vessel is in evacuation mode (for a total of 18 minutes with readings averaged over a 3 minute period).

(3) Presence of flame for flare continuously when VOD is evacuating - defined as at least once every 15 minutes.

(4) Flow of natural gas to flare continuously when VOD is evacuating - defined as at least once every 15 minutes.

[From Plan Approval 62-032I as modified at the 2023 TV renewal to change the averaging in paragraph (b)(1) from a 2 hour period to a 3 hour period. Additional authority for this permit condition is also derived from 40 CFR §64.6 & §64.3]

### IV. RECORDKEEPING REQUIREMENTS.

**# 004 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The facility shall maintain monthly records of the VOD throughput.

[From Plan Approval 62-032M]

**# 005 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The following are CAM conditions.

(a) The permittee shall record the approved indicator(s) using approved data collecting device(s). (Examples of approved data collecting devices may include: strip chart recorders, data acquisition systems, or manual log entries based on gauge readings or EPA Method 9 observations.)

(1) Pressure differential across the baghouse continuously, defined as at least once every 15 minutes

(2) Visible emissions (VE) observations daily, defined as once per calendar day when vessel is in evacuation mode (for a total of 18 minutes with readings averaged over a 3 minute period)

(3) Presence of flame for flare continuously when VOD is evacuating - defined as at least once every 15 minutes

## SECTION D. Source Level Requirements

(4) Flow of natural gas to flare continuously when VOD is evacuating - defined as at least once every 15 minutes

(b) 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.

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

(d) 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.

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

[From Plan Approval 62-032I. Additional authority for parts (a) through (d) of this permit condition is also derived from 40 CFR §64.9. Additional authority for part (e) of this permit condition is also derived from 40 CFR §70.6(a)(3)(ii)(B).]

### V. REPORTING REQUIREMENTS.

**# 006 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The following are CAM conditions.

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

(b) 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 6 months.

[From Plan Approval 62-032I. Additional authority for part (a) of this permit condition is also derived from 40 CFR §64.9 & §70.6(a)(3)(iii)(A). Additional authority for part (b) of this permit condition is also derived from 40 CFR §64.9.]

### VI. WORK PRACTICE REQUIREMENTS.

**# 007 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The following are CAM conditions.

(a) The permittee shall adhere to the approved range for the selected indicator 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.

(1) The pressure differential across the baghouse when VOD is evacuating shall be maintained between -0.02 inch w.c. and -1.0 inch w.c. averaged over a 2 hour period

(2) The visible emissions (VE) observations shall be less than 10 percent averaged over a 3 minute period

(3) Presence of flame for flare when VOD is evacuating

(4) Flow of natural gas to flare when VOD is evacuating

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

## SECTION D. Source Level Requirements

(1) 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.

(2) The permittee shall develop verification procedures to confirm the operational status of new or modified monitoring equipment prior to commencement of the monitoring process. (The operational status pertains to the first time calibration of new or modified equipment. The permittee may compare the data with any Department approved standardized data. For example, you might compare a pressure gauge at a controlled pressure to that of a pressure standard of a known accuracy, or thermal couple temperature accuracy measured against a known reference temperature traceable to a National Institute for Standards and Technology (NIST)).

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

(i) Pressure gauges calibrated quarterly;

(ii) VE Evaluator certified semiannually;

(iii) Thermal device inspected and maintained per manufacturer's recommendation;

(iv) Flow device inspected and maintained per manufacturer's recommendation.

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

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

(e) 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 180 days after the issuance date of the permit.

[Plan Approval 62-032I as modified at the 2023 TV renewal to change the range of paragraph (a)(1) from 0.1 to 6.0 to -0.02 to -1.0.] [Additional authority for part (a) of this permit condition is also derived from 40 CFR §64.3 & §64.6. Additional authority for parts (b) through (d) of this permit condition are also derived from 40 CFR §64.3. Additional authority for part (e) of this permit condition is also derived from 40 CFR §64.4.]

**# 008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.18]**

**Subpart A - General Provisions**

**General control device requirements.**

(a) [Not applicable]

(b) Flares. Paragraphs (c) through (f) apply to flares.

(c) (1) Flares shall be designed for and operated with no visible emissions as determined by the methods specified in paragraph (f), except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.

(2) Flares shall be operated with a flame present at all times, as determined by the methods specified in paragraph (f).

(3) An owner/operator has the choice of adhering to either the heat content specifications in paragraph (c)(3)(ii) of this section and the maximum tip velocity specifications in paragraph (c)(4) of this section, or adhering to the requirements in paragraph (c)(3)(i) of this section.

(i) (A) Flares shall be used that have a diameter of 3 inches or greater, are nonassisted, have a hydrogen content of 8.0 percent (by volume), or greater, and are designed for and operated with an exit velocity less than 37.2 m/sec (122 ft/sec) and less than the velocity, Vmax, as determined by the following equation: $V_{max}=(XH_2-K_1)* K_2$

Where:

Vmax = Maximum permitted velocity, m/sec.

**SECTION D. Source Level Requirements**

K1 = Constant, 6.0 volume-percent hydrogen.
K2 = Constant, 3.9(m/sec)/volume-percent hydrogen.
XH2 = The volume-percent of hydrogen, on a wet basis, as calculated by using the American Society for Testing and Materials (ASTM) Method D1946–77. (Incorporated by reference as specified in §60.17).

(B) The actual exit velocity of a flare shall be determined by the method specified in paragraph (f)(4) of this section.

(ii) Flares shall be used only with the net heating value of the gas being combusted being 11.2 MJ/scm (300 Btu/scf) or greater if the flare is steam-assisted or air-assisted; or with the net heating value of the gas being combusted being 7.45 MJ/scm (200 Btu/scf) or greater if the flare is nonassisted. The net heating value of the gas being combusted shall be determined by the methods specified in paragraph (f)(3) of this section.

(4) (i) Steam-assisted and nonassisted flares shall be designed for and operated with an exit velocity, as determined by the methods specified in paragraph (f)(4) of this section, less than 18.3 m/sec (60 ft/sec), except as provided in paragraphs (c)(4) (ii) and (iii) of this section.

(ii) Steam-assisted and nonassisted flares designed for and operated with an exit velocity, as determined by the methods specified in paragraph (f)(4), equal to or greater than 18.3 m/sec (60 ft/sec) but less than 122 m/sec (400 ft/sec) are allowed if the net heating value of the gas being combusted is greater than 37.3 MJ/scm (1,000 Btu/scf).

(iii) Steam-assisted and nonassisted flares designed for and operated with an exit velocity, as determined by the methods specified in paragraph (f)(4), less than the velocity, Vmax, as determined by the method specified in paragraph (f)(5), and less than 122 m/sec (400 ft/sec) are allowed.

(5) [Not applicable]

(6) Flares used to comply with this section shall be steam-assisted, air-assisted, or nonassisted.

(d) Owners or operators of flares used to comply with the provisions of this subpart shall monitor these control devices to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how owners or operators of flares shall monitor these control devices.

(e) Flares used to comply with provisions of this subpart shall be operated at all times when emissions may be vented to them.

(f) (1) Method 22 of appendix A to this part shall be used to determine the compliance of flares with the visible emission provisions of this subpart. The observation period is 2 hours and shall be used according to Method 22.

(2) The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame.

(3) The net heating value of the gas being combusted in a flare shall be calculated using the equation in 40 CFR 60.18(f)(3).

(4) The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip.

(5) The maximum permitted velocity, Vmax, for flares complying with paragraph (c)(4)(iii) shall be determined by the following equation: Log10(Vmax) = (HT+28.8)/31.7

Where:
Vmax = Maximum permitted velocity, M/sec
28.8 = Constant
31.7 = Constant

## SECTION D. Source Level Requirements

HT = The net heating value as determined in paragraph (f)(3).

(6) [Not applicable]

(g) [Not applicable]

(h) [Not applicable]

### VII. ADDITIONAL REQUIREMENTS.

**# 009 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The following are CAM requirements.

(a) [Requirement no longer applicable.]

(b) [Requirement no longer applicable.]

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

(1) For properly and accurately collected data, accumulated excursions exceed two percent (2%) of the data for CO or five percent (5%) of the data for particulates.

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

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

(d) In general, the QIP plan should be developed within 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 180 days from the date on which the need to implement the QIP was determined.

(e) 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.

(f) In accordance with § 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:

(1) Improved preventive maintenance practices

(2) Process operation changes

(3) Appropriate improvements to control methods

(4) Other steps appropriate to correct performance

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

(1) Address the cause of the control device performance problem.

(2) Provide adequate procedures for correcting control device performance problems in as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

## SECTION D. Source Level Requirements

(h) 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.

[From Plan Approval 62-032I. Additional authority for the parts (c), (d), (f) - (h) of this permit condition are also derived from 40 CFR §64.8. Additional authority for the part (e) of this permit condition are also derived from 40 CFR §64.9.]

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

## SECTION D. Source Level Requirements

Source ID: 1001 Source Name: ENS 2ND HORIZONTAL PREHEATER

Source Capacity/Throughput: 12.000 MMBTU/HR
1.000 MCF/HR Natural Gas


### 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 a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

**# 002 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The NOx emissions shall not exceed 5.3 tpy (calculated as a 12-month rolling total).

(b) The CO emissions shall not exceed 4.4 tpy (calculated as a 12-month rolling total).

(c) The SOx emissions shall not exceed 0.032 tpy (calculated as a 12-month rolling total).

(d) The VOC emissions shall not exceed 0.29 tpy (calculated as a 12-month rolling total).

(e) The PM-10 emissions shall not exceed 0.4 tpy (calculated as a 12-month rolling total).

[From Plan Approval 62-032I]

### Fuel Restriction(s).

**# 003 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The permittee shall use pipeline quality natural gas only as a fuel for this source.

[From Plan Approval 62-032I]

### Throughput Restriction(s).

**# 004 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The natural gas consumption shall not exceed 105,000 MCF of natural gas per year (calculated as a 12-month rolling total).

[From Plan Approval 62-032I]

### 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.

**# 005 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The permittee shall monitor the natural gas consumed by this source using a gas flow meter or equivalent method as approved by the Department.

[From Plan Approval 62-032I]

### IV. RECORDKEEPING REQUIREMENTS.

**# 006 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The permittee shall maintain daily records of the hours of operation and natural gas usage of this source.

(b) The permittee shall calculate and maintain monthly records of the emissions from this source to determine compliance with this Plan Approval.

(c) All required records shall commence upon source startup, shall be maintained on site for a minimum of 5 years and shall be made available to Department personnel upon request.

[From Plan Approval 62-032I]

### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

**# 007 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The permittee shall install, operate, and maintain the necessary meter(s) to determine and record the natural gas usage for this source.

(b) The source shall be installed, maintained, and operated in accordance with manufacturer's specifications and good air pollution control practices.

[From Plan Approval 62-032I]

### VII. ADDITIONAL REQUIREMENTS.

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

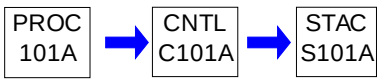
***** Permit Shield in Effect. *****

## SECTION D. Source Level Requirements

Source ID: 101A Source Name: ENS 45T ELECTRIC ARC FURNACE

Source Capacity/Throughput: 22.500 Tons/HR STEEL

Conditions for this source occur in the following groups: 02 - 40 CFR PART 60 SUBPART AA-A
10 - TESTING REQUIREMENTS




### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The NOx emissions from the EAF shall not exceed 0.38 lb/ton and 28.5 TPY (based on a 12-month rolling total).

(b) The CO emissions from the EAF shall not exceed 6.0 lb/ton and 450 TPY (based on a 12-month rolling total).

(c) The SOx emissions from the EAF shall not exceed 0.55 lb/ton and 41.3 TPY (based on a 12-month rolling total).

(d) The VOC emissions from the EAF shall not exceed 0.28 lb/ton and 20.6 TPY (based on a 12-month rolling total).

(e) The PM-10 emissions from the EAF shall not exceed 0.11 lb/ton and 8.3 TPY (based on a 12-month rolling total).

[Paragraphs (a) through (e) are from Plan approval 62-032F, Section D, Source 101A, Condition 001.]

**# 002 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The combined NOx emissions from the oxyfuel preheater, horizontal preheater, and vertical dryer shall not exceed 100 lb/MMCF and 6.05 tpy (based on a 12-month rolling total).

(b) The combined CO emissions from the oxyfuel preheater, horizontal preheater, and vertical dryer shall not exceed 84 lb/MMCF and 5.08 tpy (based on a 12-month rolling total).

(c) The combined SOx emissions from the oxyfuel preheater, horizontal preheater, and vertical dryer shall not exceed 0.6 lb/MMCF and 0.04 tpy (based on a 12-month rolling total).

(d) The combined VOC emissions from the oxyfuel preheater, horizontal preheater, and vertical dryer shall not exceed 5.5 lb/MMCF and 0.33 tpy (based on a 12-month rolling total).

(e) The combined PM-10 emissions from the oxyfuel preheater, horizontal preheater, and vertical dryer shall not exceed 7.6 lb/MMCF and 0.46 tpy (based on a 12-month rolling total).

[Paragraphs (a) through (e) are from Plan approval 62-032F, Section D, Source 101A, Condition 002.]

### Fuel Restriction(s).

**# 003 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The permittee shall use only natural gas for the vertical dryer, horizontal preheater, and the oxyfuel preheater.

[From Plan approval 62-032F, Section D, Source 101A, Condition 004.]

## SECTION D. Source Level Requirements

### Throughput Restriction(s).

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

The combined natural gas consumption from the oxyfuel preheater, horizontal preheater, and vertical dryer shall not exceed 120,915 MCF of natural gas per year (calculated as a 12 month rolling total).

[From Plan approval 62-032F, Section D, Source 101A, Condition 005.]

### II. TESTING REQUIREMENTS.

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

(a) [The initial stack tests conducted on the EAF and the Ladle Furnace for compliance with plan approval 62-032B has already been met and the requirement for protocol submission is printed in Section E of this operating permit.]

(b) Stack tests shall be performed in accordance with the provisions of Chapter 139 to show compliance with the CO, NOx, SOx, VOC and PM-10 emissions for the EAF. The stack tests shall be performed while the aforementioned source is operating at the normal maximum production. During the stack test for PM-10, the sampling time and volume for each run shall be at least 4 hours and 160 dscf. The CO, NOx, SOx, and VOC testing for the EAF shall be conducted in the duct prior to the positive pressure baghouse.

(c) [The requirement for test notificaiton is printed in Section E of this operating permit.]

(d) [The requirement for test report submission is printed in Section E of this operating permit.]

(e) After completion of the initial performace test, the source shall be stack tested at least once every 5 years (or at least once during the term of the Title V Operating Permit) for CO, NOx, SOx, VOC, and PM-10 emissions.

[The Source 101A EAF and Source 122 Ladle Furnace were tested on July 9-12, 2018, and the test report was reviewed by the DEP Air Quality Division of Source Testing on June 2, 2020.]

[From Plan approval 62-032F, Section D, Source 101A, Condition 006.]

### III. MONITORING REQUIREMENTS.

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

The permittee shall monitor the natural gas used by the vertical dryer, horizontal preheater, and oxyfuel preheater using a gas flow meter or equivalent method as determined by the Department.

[From Plan approval 62-032F, Section D, Source 101A, Condition 009.]

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

The following are CAM related requirements.

[Additional authority for parts (a) - (d) of this permit condition is also derived from 40 CFR §64.6 & §64.3]

(a) The permittee shall use the approved process parameter(s) or indicator(s) to obtain data and monitor the emission control equipment performance.

(1) The approved parameter(s) or indicator(s) are:
(i) Pressure drop across the baghouse
(ii) Baghouse Inlet Temperature
(iii) Fan Amperage
(iv) Visible emissions

## SECTION D. Source Level Requirements

(b) The permittee shall use the approved mean(s) or device(s) to measure the applicable indicator(s).

(1) The approved measuring device(s) are:
(i) Pressure gauges to measure the pressure drop across the baghouse.
(ii) Thermocouple to measure the inlet temperature to the baghouse.
(iii) Ammeter to measure the fan amperage.
(iv) Daily Method 9 observations.

(c) The permittee shall use the approved frequency for conducting monitoring of indicators.

(1) The approved frequency for pressure drop across the baghouse, temperature to the inlet of the baghouse, and fan amperage is continuous measurement.

(2) The approved frequency for Method 9 visible emissions is daily when the EAF is operating in the melting and refining period. At least three 6-minute averages will be conducted.

[From Plan approval 62-032F, Section D, Source 101A, Condition 010.]

### IV. RECORDKEEPING REQUIREMENTS.

**# 008 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The permittee shall keep records of the natural gas usage for the vertical dryer, horizontal preheater, and oxyfuel preheater on monthly basis.

(b) The permittee shall keep a record of the hours of operation of the vertical dryer, horizontal preheater, oxyfuel preheater, and EAF.

(c) The permittee shall keep a record of the emissions from the vertical dryer, horizontal preheater, oxyfuel preheater, and EAF.

(d) The records shall be maintained for a minimum of 5 years.

[From Plan approval 62-032F, Section D, Source 101A, Condition 013.]

**# 009 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The following are CAM related requirements.

[Additional authority for parts (a) - (d) of this permit condition is also derived from 40 CFR §64.9]

(a) The permittee shall record at least once per 24-hour period the approved indicator(s) using approved data collecting devices.

(1) The approved data collecting device for pressure drop, inlet baghouse temperature, and fan amperage is continuous records by the PLC.

(2) The approved data collecting device for the Method 9 readings is the Method 9 observation sheets.

(b) 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.

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

(d) 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,

## SECTION D. Source Level Requirements

possible causes and corrective actions taken for the incidents.

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

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

[From Plan approval 62-032F, Section D, Source 101A, Condition 014.]

**# 010 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The emissions from the vertical dryer, horizontal preheater, and the oxyfuel preheater shall be calculated on a monthly basis for the sources based on the fuel usage multiplied by the emission limit (lb/MMCF) and the hours of operation.

(b) The emissions from the EAF shall be calculated on a monthly basis based on the emission rate from the stack test (lb/ton of steel) multiplied by the ton of steel produced.

[From Plan approval 62-032F, Section D, Source 101A, Condition 021.]

**# 011 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

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

- dates of the inspections,
- name or ID of the person performing the inspection or maintenance,
- any problems or defects,
- the actions taken to correct the problem or defects,
- any routine maintenance performed, and
- the pressure drop across the control device.

### V. REPORTING REQUIREMENTS.

**# 012 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The following are CAM related requirements.

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

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

[Additional authority for part (b) of this permit condition is also derived from 40 CFR §64.9]

(b) 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 6 months.

[From Plan approval 62-032F, Section D, Source 101A, Condition 016.]

### VI. WORK PRACTICE REQUIREMENTS.

**# 013 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

A magnehelic gauge shall be permanently installed and maintained at a conveniently readable location to indicate the pressure drop across each of the baghouses.

[From Plan approval 62-032F, Section D, Source 101A, Condition 017.]

## SECTION D. Source Level Requirements

**# 014 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

Twenty percent of the total number of bags in each of the baghouses is required to be on hand for replacement as necessary.

[From Plan approval 62-032F, Section D, Source 101A, Condition 018.]

**# 015 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The EAF and the associated controls for this source shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices.

(b) The owner and operator of the facility shall perform weekly preventative maintenance inspections of the fabric filters, and check the pressure drop across each of the fabric filters.

(c) The permittee shall conduct a weekly inspection of the dust removal system to ensure proper function of the removal mechanisms.

(d) The permittee shall perform a monthly visual inspection of the bag cleaning mechanisms for proper function.

(e) The permittee shall perform a monthly visual inspection of the bag tensioning mechanism.

(f) The permitee shall perform a quarterly inspection of the physical integrity of the baghouse including inspecting the interior for air leaks.

(g) The permittee shall inspect the fan for signs of wear, material buildup, and corrosion on a quarterly basis.

[From Plan approval 62-032F, Section D, Source 101A, Condition 019.]

**# 016 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The following are CAM related requirements.

[Additional authority for part (a) of this permit condition is also derived from 40 CFR §64.3 & §64.6]

(a) The permittee shall adhere to the approved range for the selected indicator 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.

(1) The approved range for the pressure drop across the baghouse shall be developed at the increased production rate and verified during the stack test.

[The approved pressure drop indicator range is 4.5 to 10.0 inches of water column].

(2) The approved range (maximum temperature) of the baghouse inlet shall be developed at the increased production rate and verifed during the stack test.

[The approved baghouse inlet temperature indicator range is 60 to 275 F as authorized by Plan Approval 62-032K].

(3) The approved range for the fan amperage shall be developed at the increased production rate and verified during the stack test.

[The approved fan amperage indicator range is 60 to 115 percent of the full load amperage (240 Amps - East Fan and 224 Amps West).]

(4) The approved range for visible emissions is opacity less than 3 percent (based on six-minute average).

## SECTION D. Source Level Requirements

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

(1) 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.

(i) The differential pressure monitoring equipment shall be installed on the inlet and outlet of the baghouse.

(ii) The thermocouple indicating the inlet temperature of the baghouse shall be installed in the inlet duct immediatley before the baghouse.

(iii) The ammeter shall be installed to indicate the baghouse fan amperage.

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

(i) The operational status pertains to the first time calibration of new or modified equipment. The permittee may compare the data with any Department approved standardized data. For example, the permittee might compare a pressure gauge at a controlled pressure to that of a pressure standard of a know accuracy.

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

(i) The approved time intervals for calibration is the pressure drop gauges shall be calibrated and checked for accuracy quarterly. The pressure taps shall be checked on a daily basis.

(ii) The approved time intervals for calibration for the baghouse inlet temperature gauge is quarterly. The thermocouple shall also be checked daily for pluggage.

(iii) The baghouse fan shall be checked during daily inspections and the ammeter shall be zeroed when the unit is not operating.

(iv) The Method 9 observer shall be certified on a semi-annual basis.

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

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

[Additional authority for part (e) of this permit condition is also derived from 40 CFR §64.4]

(e) 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 180 days after the issuance date of the permit.

[From Plan approval 62-032F, Section D, Source 101A, Condition 020. The fan amperage range is re-approved during the review for the 2023 Title V permit renewal.]

**# 017 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

[The following are CAM related requirements. Additional authority for the following permit conditions are also derived from 40 CFR §64.8]

Quality Improvement Plan Requirements

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

## SECTION D. Source Level Requirements

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

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

(b) In general, the QIP plan should be developed within 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 180 days from the date on which the need to implement the QIP was determined.

(c) 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.

(d) 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:

(1) Improved preventive maintenance practices
(2) Process operation changes
(3) Appropriate improvements to control methods
(4) Other steps appropriate to correct performance.

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

(1) Address the cause of the control device performance problem; or

(2) Provide adequate procedures for correcting control device performance problems in as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(6) 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.

[From Plan approval 62-032F, Section D, Source 101A, Condition 020.]

### 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: 103 Source Name: ENS ANNEALING FURNACES #2, #3 & #4 (3)

| | | | |
|---|---|---|---|
| Source Capacity/Throughput: | 84.000 | MCF/HR | Natural Gas |
| | 30.000 | Tons/HR | STEEL |

Conditions for this source occur in the following groups: 04 - RACT I


### 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 a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

**# 002 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The NOx emissions from the annealing furnaces shall not exceed 140 lb/MMCF based on a 12-month rolling total.

(b) The CO emissions from the annealing furnaces shall not exceed 84 lb/MMCF based on a 12-month rolling total.

(c) The SOx emissions from the annealing furnaces shall not exceed 0.6 lb/MMCF based on a 12-month rolling total.

(d) The VOC emissions from the annealing furnaces shall not exceed 5.5 lb/MMCF based on a 12-month rolling total.

(e) The PM-10 emissions from the annealing furnaces shall not exceed 7.6 lb/MMCF based on a 12-month rolling total.

[From Plan approval 62-032B]

**# 003 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The combined NOx emissions from the annealing furnaces of Source 103 shall not exceed 5.88 tpy (calculated as a 12-month rolling total).

(b) The combined CO emissions from the annealing furnaces of Source 103 shall not exceed 3.53 tpy (calculated as a 12-month rolling total).

(c) The combined SOx emissions from the annealing furnaces of Source 103 shall not exceed 0.025 tpy (calculated as a 12-month rolling total).

(d) The combined VOC emissions from the annealing furnaces of Source 103 shall not exceed 0.231 tpy (calculated as a 12-month rolling total).

(e) The combined PM-10 emissions from the annealing furnaces of Source 103 shall not exceed 0.319 tpy (calculated as a 12-month rolling total).

[From Plan Approval 62-032D as modified in the 2023 Title V permit renewal to reflect the removal of Source 103A from the combined limits imposed by the plan approval.]

## SECTION D. Source Level Requirements

### Fuel Restriction(s).

**# 004 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The permittee shall use only natural gas for this source.

[From plan approval 62-032B]

### Throughput Restriction(s).

**# 005 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The natural gas consumption from the annealing furnaces shall not exceed 140,000 MCF of natural gas per year (based on a 12 month rolling total).

[Originally derived from plan approval 62-032B as modified with plan approval 62-032D.]

### 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 §127.12b]**

**Plan approval terms and conditions.**

The permittee shall monitor the natural gas used by the source using a gas flow meter or equivalent method as determined by the Department.

[From plan approval 62-032B]

### IV. RECORDKEEPING REQUIREMENTS.

**# 007 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The permittee shall keep records of the natural gas usage on monthly basis.

(b) The permittee shall keep a record of the hours of operation of the source.

(c) The permittee shall keep a record of the emissions from the source.

(d) The records shall be maintained for a minimum of 5 years.

[From plan approval 62-032B]

**# 008 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The emissions shall be calculated on a monthly basis for the source based on the fuel usage multiplied by the emission limit (lb/MMCF) and the hours of operation.

[From plan approval 62-032B]

### 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.

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

### VII. ADDITIONAL REQUIREMENTS.

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

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

## SECTION D. Source Level Requirements

Source ID: 111 Source Name: ENF HEAT TREAT FURNACES (13)

| | | | |
|---|---|---|---|
| Source Capacity/Throughput: | 72.000 | MCF/HR | Natural Gas |
| | 3.000 | Tons/HR | STEEL |

Conditions for this source occur in the following groups: 04 - RACT I


### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

When firing natural gas:

The NOx emissions from ENF heat treat furnaces 382 & 605 shall not exceed 100 lb/MMCF and 8.1 TPY (based on a 12-month rolling total).

[From Plan Approval 62-032K]

**# 002 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

When firing natural gas:

(a) The NOx emissions from the ENF heat treat furnaces shall not exceed 140 lb/MMCF and 10.85 tpy (based on a 12-month rolling total). [This condition replaces the previous limit of 8.05 tpy]

(b) The CO emissions from the ENF heat treat furnaces shall not exceed 84 lb/MMCF and 6.51 tpy (based on a 12-month rolling total). [This condition replaces the previous limit of 4.83 tpy]

(c) The SOx emissions from the ENF heat treat furnaces shall not exceed 0.6 lb/MMCF and 0.05 tpy (based on a 12-month rolling total). [This condition replaces the previous limit of 0.03 tpy]

(d) The VOC emissions from the ENF heat treat furnaces shall not exceed 5.5 lb/MMCF and 0.43 tpy (based on a 12-month rolling total). [This condition replaces the previous limit of 0.32 tpy]

(e) The PM-10 emissions from the ENF heat treat furnaces shall not exceed 7.6 lb/MMCF and 0.59 tpy (based on a 12-month rolling total). [This condition replaces the previous limit of 0.44 tpy]

[From: Plan Approval 62-032H. The 10.85 tpy NOx limit in paragraph (a) is also from plan approval 62-032K.]

### Fuel Restriction(s).

**# 003 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The permittee shall use only natural gas for this source.

## SECTION D. Source Level Requirements

### Throughput Restriction(s).

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

The natural gas consumption from the ENF heat treat furnaces shall not exceed 155,000 MCF of natural gas per year (based on a 12 month rolling total).

[From Plan Approval 62-032H. This condition replaces the previous limit of 115,000 mcf/yr.]

### II. TESTING REQUIREMENTS.

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

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

[The requirement for stack testing on furnace 382 and furnace 605 imposed by Plan Approval 62-032K is considered to be met during the review of the 2023 Title V operating permit renewal. A stack test was conducted on the Stack for Furnace 382 on Feb. 6, 2018, and the test results were determined to be acceptable on Oct. 31, 2019 by the Department's Division of Source Testing on Oct. 31, 2019. A stack test on the stack for Furnace 605 was performed on April 28, 2022.]

### III. MONITORING REQUIREMENTS.

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

The permittee shall monitor the natural gas used by the source using a gas flow meter (or equivalent method as determined by the Department).

[From plan approval 62-032B]

### IV. RECORDKEEPING REQUIREMENTS.

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

(a) The permittee shall keep records of the natural gas usage on monthly basis.

(b) The permittee shall keep a record of the hours of operation of the source.

(c) The permittee shall keep a record of the emissions from the source.

(d) [No longer applicable - facility does not burn oil.]

(e) The records shall be maintained for a minimum of 5 years.

[From plan approval 62-032B]

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

The emission shall be calculated on a monthly basis for the source based on the fuel usage multiplied by the emisssion limit (lb/MMCF) and hours of operation.

[From plan approval 62-032B]

## 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.

**# 009 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

ENF heat treat furnaces 679, 682, and 464 shall be operated with LNB in accordance with the manufacturer's specifications and consistent with good air pollution control practices.

[This operating permit condition is derived from information submitted for eRFD #3730 approved August 8, 2013.]

### 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).

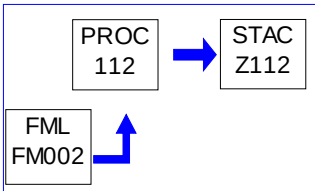
***** Permit Shield in Effect. *****

## SECTION D. Source Level Requirements

Source ID: 112 Source Name: ENC HEAT TREAT FURNACES (7 HORIZONTAL; 2 OTHER)

| | | | |
|---|---|---|---|
| Source Capacity/Throughput: | 114.000 | MCF/HR | Natural Gas |
| | 3.000 | Tons/HR | STEEL |

Conditions for this source occur in the following groups: 04 - RACT I




### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The NOx emissions from the ENC heat treat furnaces shall not exceed 140 lb/MMCF and 16.10 tpy (based on a 12-month rolling total).

[This condition replaces the following condition: The NOx emissions from the ENC heat treat furnaces shall not exceed 140 lb/MMCF and 19.25 TPY (based on a 12-month rolling total).]

(b) The CO emissions from the ENC heat treat furnaces shall not exceed 84 lb/MMCF and 9.66 tpy (based on a 12-month rolling total).

[This condition replaces the following condition: The CO emissions from the ENC heat treat furnaces shall not exceed 84 lb/MMCF and 11.55 TPY (based on a 12-month rolling total).]

(c) The SOx emissions from the ENC heat treat furnaces shall not exceed 0.6 lb/MMCF and 0.069 tpy (based on a 12-month rolling total).

[This condition replaces the following condition: The SOx emissions from the ENC heat treat furnaces shall not exceed 0.6 lb/MMCF and 0.08 TPY (based on a 12-month rolling total).]

(d) The VOC emissions from the ENC heat treat furnaces shall not exceed 5.5 lb/MMCF and 0.633 tpy (based on a 12-month rolling total).

[This condition replaces the following condition: The VOC emissions from the ENC heat treat furnaces shall not exceed 5.5 lb/MMCF and 0.76 TPY (based on a 12-month rolling total).]

(e) The PM-10 emissions from the ENC heat treat furnaces shall not exceed 7.6 lb/MMCF and 0.874 tpy (based on a 12-month rolling total).

[This condition replaces the following condition: The PM-10 emissions from the ENC heat treat furnaces shall not exceed 7.6 lb/MMCF and 1.05 TPY (based on a 12-month rolling total).]

[Parts (a) through (e) are from Plan Approval 62-032O, Section D, Source 112, Condition #001.]

### Fuel Restriction(s).

**# 002 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The permittee shall use only natural gas for this source.

[From Plan Approval 62-032B, Section D, Source 112, Condition # 003.]

## SECTION D. Source Level Requirements

### Throughput Restriction(s).

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

The natural gas consumption from the ENC heat treat furnaces shall not exceed 230,000 MCF of natural gas per year (based on a 12 month rolling total).

[From Plan approval 62-032O, Section D, Source 112, Condition #002. This condition replaces the following condition: The natural gas consumption from the ENC heat treat furnaces shall not exceed 275,000 MCF of natural gas per year (based on a 12-month rolling total).]

### 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.

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

The permittee shall monitor the natural gas used by the source using a gas flow meter or equivalent method as determined by the Department.

[From Plan Approval 62-032B, Section D, Source 112, Condition # 004.]

### IV. RECORDKEEPING REQUIREMENTS.

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

(a) The permittee shall keep records of the natural gas usage on monthly basis.

(b) The permittee shall keep a record of the hours of operation of the source.

(c) The permittee shall keep a record of the emissions from the source.

(d) The records shall be maintained for a minimum of 5 years.

[From Plan Approval 62-032B, Section D, Source 112, Condition # 005.]

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

The emissions shall be calculated on a monthly basis for the source based on the fuel usage multiplied by the emission limit (lb/MMCF) and the hours of operation.

[From Plan Approval 62-032B, Section D, Source 112, Condition # 006.]

### V. REPORTING REQUIREMENTS.

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

## 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).

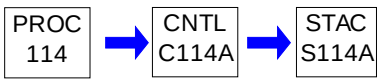
***** Permit Shield in Effect. *****

## SECTION D. Source Level Requirements

Source ID: 114 Source Name: ENC CRANKSHAFT FILE AND GRIND PROCESS

Source Capacity/Throughput: 2.000 Tons/HR STEEL

Conditions for this source occur in the following groups: 10 - TESTING REQUIREMENTS




### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) Emissions shall comply with 25 PA Code 123.1, 123.31, & 123.41 for fugitive, odor, and visible emissions respectively.

(b) No person may permit the emission into the outdoor atmosphere of particulate matter in a manner that the concentration of total particulate matter (both filterable and condensable) in the effluent gas exceeds 0.0002 grain per dry standard cubic foot. [This condition replaces the following condition from Plan Approval # 62-032A, Condition # 5: Particulate emission from the sources shall not exceed 0.02 grain/dscf.]

[Compliance with the requirement in this streamlined permit condition assures compliance with the provisions found in 25 Pa. Code §123.13]

(c) Emissions shall not exceed the following:

(1) PM: 0.043 #/hr (both filterable and condensable)

(2) PM: 0.19 tpy (both filterable and condensable) based on a 12-month rolling total

(3) PM10: 0.043 #/hr [This condition replaces the following condition from Facility Operating Permit: The PM-10 emissions from the source shall not exceed 0.035 lb/ton of production.]

(4) PM10: 0.19 tpy based on a 12-month rolling total [This condition replaces the following condition from Facility Operating Permit: The PM-10 emissions from the source shall not exceed 0.19 TPY (based on a 12-month rolling total).]

(5) PM2.5: 0.043 #/hr

(6) PM2.5: 0.19 tpy based on a 12-month rolling total

[From Plan Approval 62-032P]

**# 002 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) This source is subject to the provisions of Plan Approval 62-032P, the conditions of which are incorporated into this Title V permit. Plan approval 62-032P will expire 8/28/2023. Any violation of the plan approval would also be deemed a violation of this Title V Operating Permit.

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

(c) This Title V permit shall not be construed to provide any independent, ongoing authority for the construction or operation of the project that is the subject of Plan Approval 62-032P, unless and until the permittee applies for, and is granted, a future administrative amendment to this Title V permit for that project, once it has been determined by the Department to have completed its respective temporary operation phase under the authority of that plan approval.

## SECTION D. Source Level Requirements

### Throughput Restriction(s).

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

The production rate of this source shall not exceed 10,650 TPY (based on a 12-month rolling total).

[From Plan Approvals 62-032F and 62-032P]

### II. TESTING REQUIREMENTS.

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

(a) Within 60 days after achieving the normal production rate at which the affected source will be operated, but not later than 180 days after initial start-up of the control device, a stack test for TSP shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection. The stack test shall be performed while the aforementioned source is operating at the maximum or normal rated capacity as stated on the application. The stack test shall be conducted at the outlet of the normal control device (C114A). In the event that any deadlines set forth in this condition cannot be met, the permittee may request an extension which shall include a justification for the extension, in writing prior to the deadline. The Department may grant an extension for reasonable cause.

(b) Within 12 to 18 months prior to the expiration of the facility operating permit, a stack test for TSP shall be performed in accordance with the provisions in part (a). The stack test shall be performed while the aforementioned source is operating at the maximum or normal rated capacity as stated on the application. The stack test shall be conducted at the outlet of the normal control device (C114A).

[Parts (a) and (b) are from Plan Approval 62-032P, Section D, Source 114, Condition #003.]

### 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.

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

(a) All recordkeeping shall commence upon startup of the source/control device. All records shall be kept for a period of 5 years and shall be made available to the Department upon request.

(b) The permittee shall maintain a record of all preventive maintenance inspections of the control device. These records shall include, at a minimum,

- the dates of the inspections,
- the name of the person performing the inspection,
- any problems or defects identified,
- any actions taken to correct the problems or defects, and
- any routine maintenance performed.

(c) The permittee shall record the following operational data from the baghouse (these records may be done with strip charts recorders, data acquisition systems, or manual log entries):

(1) Pressure differential - daily defined as once per calendar day

(2) Visible emission check - daily defined as once per calendar day

(d) The permittee shall keep records of the following:

(1) Production rate of this source on a daily basis

## SECTION D. Source Level Requirements

(2) Hours of operation of the source on a monthly basis

(3) Emissions from the source on a monthly basis

[From Plan Approval 62-032P]

### 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.

**# 006 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The permittee shall perform a daily operational inspection of the control device when the device is in operation. As part of this operational inspection the facility shall monitor the pressure drop across the baghouse and shall conduct a visible emissions observation per the below observation schedule:

- The permittee shall perform a daily operational inspection for the first week
- After the first week, the permittee shall perform an observation two times in the second week
- After the second week, the permittee shall perform one visible emissions observation weekly

(1) The VE observation shall be 60 seconds in length with readings every 15 seconds. If any visible emissions are observed, the facility shall perform one of the following:

- A Method 9 observation (60 minutes in duration) using a certified observer shall be conducted to determine compliance with the opacity limits; or
- The facility shall immediately commence shutdown of the source/control device in accordance with the Department approved shutdown procedure.

(2) If any visible emissions are observed, the permittee will then resume observations daily and repeat the process noted above until observations are being completed once weekly.

(b) The permittee shall perform a monthly preventive maintenance inspection of the control device.

(c) A magnehelic gauge or equivalent shall be maintained and operated to monitor the pressure differential across the baghouse. All gauges employed shall have a scale such that the expected normal reading shall be no less than 20 percent of full scale and be accurate within plus or minus two percent (+/- 2%) of full scale reading.

[This condition replaces the following conditions from Plan Approval Number 62-032E and the RFD approved on 2007 and inspection report dated 8/28/2008: A magnehelic gauge or an equivalent device shall be permanently installed and maintained at a conveniently readable location to indicate the pressure drop across each collector. Reading will be recorded weekly, and a record of the readings and a maintenance log, which would include when filters are changed, will be kept for five years. - and - Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale.]

(d) The permittee shall adhere to the approved indicator range for the baghouse 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. The approved indicator range for the following shall be determined during the initial performance test or any subsequently approved performance tests unless otherwise stated:

(1) Pressure drop: 0.01 to 3.0 inches water gage or as established during compliant testing [This condition replaces the following condition from Plan Approval Number 62-032E and the RFD approved on 2007 and inspection report dated 8/28/2008: The operating range for pressure drop of the collector shall be maintained in between 0.01 inch to 3 inch water gauge.]

## SECTION D. Source Level Requirements

(2) Opacity less than or equal to 10%.

The permittee, with prior Departmental approval, may conduct additional performance tests to determine a new pressure drop range. Within 24-hours of discovery of a reading outside of the prescribed range the permittee shall perform a maintenance inspection on the control device and take corrective action. Records of all maintenance inspections on the control device, and corrective actions taken, shall be maintained on site for a minimum period of five years. In the event of more than one documented excursion outside the prescribed range in any calendar quarter the permittee shall submit a corrective measure plan to the Department. Corrective measures may include an increase of the frequency of required preventative maintenance inspections of the control device, a modification of the prescribed range, or other appropriate action as approved by the Department. Upon receipt of a corrective measure plan the Department shall determine the appropriate corrective measure on a case-by case basis.

(e) The permittee shall operate the control device at all times that the source is in operation. [This condition replaces the following condition from Plan Approval Number 62-032E and the RFD approved on 2007 and inspection report dated 8/28/2008: The sources shall not operate when the control device is not operating.]

(f) The permittee shall maintain and operate the source and control device in accordance with the manufacturer's specifications and in accordance with good air pollution control practices. [This condition replaces the following condition from Plan Approval Number 62-032E and the RFD approved on 2007 and inspection report dated 8/28/2008: No person shall cause or permit the operation of the sources unless the source and air cleaning devices are operated and maintained in accordance with specifications in the Plan Approval conditions. A person may not cause or permit the operation of this source in a manner inconsistent with good operating practices.]

(g) Twenty percent of the total number of cartridges in the baghouse is required to be on site (7 cartridges).

(h) The emissions shall be calculated on a monthly basis based on the hours of operation, air flow through the control device (25,000 cfm), and the latest stack test result in gr/dscf or an alternative method approved by the Department. [This condition replaces the following condition from Plan Approval Number 62-032E and the RFD approved on 2007 and inspection report dated 8/28/2008: The emissions shall be calculated on a monthly basis for the source based on the production rate multiplied by the emission limit (lb/ton) and the hours of operation.]

(i) The owner or operator shall install, operate, and maintain a triboelectric leak detection system on the control device. The system shall be operated and maintained as prescribed by the manufacturer. The system shall sound an alarm if a leak is detected.

[From Plan Approval 62-032P]

### VII. ADDITIONAL REQUIREMENTS.

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

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

## SECTION D. Source Level Requirements

Source ID: 115 Source Name: ENS VACUUM DEGASSER

Source Capacity/Throughput: 22.500 Tons/HR STEEL

PROC 115 → STAC Z115

### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The PM-10 emissions from the vacuum degasser shall not exceed 0.02 lb/ton and 1.5 TPY (based on a 12-month rolling total).

[From plan approvals 62-032B & 62-032F]

### Throughput Restriction(s).

**# 002 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The throughput for the degasser shall not exceed 150,000 ton of steel based on a 12-month rolling total.

[From plan approvals 62-032B & 62-032F]

### II. TESTING REQUIREMENTS.

**# 003 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The Department reserves the right to require emission tests for this source to determine compliance with the emission limits.

[From plan approvals 62-032B & 62-032F]

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

**# 004 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The permittee shall keep a record of the hours of operation of the source.

(b) The permittee shall keep a record of the quantity of steel processed by this source.

(c) The permittee shall keep a record of the emissions from the source.

(d) The records shall be maintained for a minimum of 5 years.

[From plan approvals 62-032B & 62-032F]

**# 005 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

## SECTION D. Source Level Requirements

The emissions shall be calculated on a monthly basis for the source based on the steel processed by the source (tons) multiplied by the emission limit (lb/ton).

[From plan approvals 62-032B & 62-032F]

### 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 D. Source Level Requirements

Source ID: 116 Source Name: ENS TEEMING

Source Capacity/Throughput: 22.500 Tons/HR MOLTEN STEEL

PROC 116 → STAC Z116

### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The PM-10 emissions from teeming shall not exceed 0.021 lb/ton and 1.6 tpy (based on a 12-month rolling total).

[Plan approval 62-032B]

### Throughput Restriction(s).

**# 002 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The throughput for teeming shall not exceed 150,000 ton of steel based on a 12-month rolling total.

[Plan approval 62-032B]

### II. TESTING REQUIREMENTS.

**# 003 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The Department reserves the right to require emission tests for this source to determine compliance with the emission limits.

[Plan approval 62-032B]

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

**# 004 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The permittee shall keep a record of the hours of operation of the source.

(b) The permittee shall keep a record of the quantity of steel processed by this source.

(c) The permittee shall keep a record of the emissions from the source.

(d) The records shall be maintained for a minimum of 5 years.

[Plan approval 62-032B]

**# 005 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The emissions shall be calculated on a monthly basis for the source based on the steel processed by the source (tons)

## SECTION D. Source Level Requirements

multiplied by the emission limit (lb/ton).

[Plan approval 62-032B]

### 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).

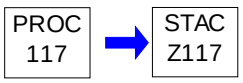
***** Permit Shield in Effect. *****

## SECTION D. Source Level Requirements

Source ID: 117 Source Name: ENS SCRAP HANDLING

Source Capacity/Throughput: 25.000 Tons/HR SCRAP STEEL

Conditions for this source occur in the following groups: 03 - 40 CFR PART 63 SUBPART YYYY




### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The PM-10 emissions from scrap handling shall not exceed 0.025 lb/ton of scrap loaded to the EAF and 2.06 tpy (based on a 12-month rolling total).

[From plan approvals 62-032B & 62-032F, Section D, Source 117, Condition # 001]

### Throughput Restriction(s).

**# 002 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The scrap throughput shall not exceed 165,000 tpy (based on a 12-month rolling total).

[From plan approvals 62-032B & 62-032F, Section D, Source 117, Condition # 002]

### 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.

**# 003 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The permittee shall keep records of the quantity of scrap received and charged to the EAF on daily basis.

(b) The permittee shall keep records of the emissions from the source.

(c) The permittee shall maintain the records for a minimum of 5 years.

[From plan approvals 62-032B & 62-032F, Section D, Source 117, Condition # 003]

**# 004 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The permittee shall calculate the PM-10 emissions from scrap handling on a monthly basis by multiplying the scrap charged by the emission factor (lb/ton of scrap).

[From plan approvals 62-032B & 62-032F, Section D, Source 117, Condition # 005]

## 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.

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.

**# 005 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The permittee shall prepare and operate at all times according to a written Scrap Management Plan that details the Melt Shop's purchase and use of only ferrous scrap materials that do not include lead components, mercury switches, combustibles (plastics, wood, paper, rubber, and free organic liquids), non-ferrous solid materials (concrete, stone, dirt, insulation), excessive rust, closed containers (e.g., drums and oil filters), cable, tin / terne coatings, non-ferrous metals (e.g., copper, lead, or tin), and non-radioactive materials. For the purpose of this paragraph, "free organic liquids" is defined as material that fails the paint filter test by EPA Method 9095A, "Paint Filter Liquids Test" (Revision 1, December 1996), as published in EPA Publication SW-846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (incorporated by reference-see §63.14). Any post-consumer engine blocks, post-consumer oil filters, or oily turnings that are processed and/or cleaned to the extent practicable such that the materials do not include lead components, mercury switches, plastics, or free organic liquids can be included in this Scrap Management Plan.

(b) The permittee shall prepare and operate at all times according to a written plan for the selection and inspection of iron and steel scrap to minimize, to the extent practicable, the amount of organics and HAP metals in the charge materials used by the electric arc furnace Melt Shop. This scrap selection and inspection plan is subject to approval by the Department.

(c) The permittee shall keep a copy of the plan onsite and readily available to all plant personnel with materials acquisition or inspection duties. You must provide a copy of the material specifications to each of your scrap vendors. The plan must include the information specified in paragraphs (c)(1) through (3) below.

(1) A materials acquisition program to limit organic contaminants according to the following requirements:

(i) For scrap charged to the EAF, specifications for scrap materials to be depleted (to the extent practicable) of the presence of unprocessed used oil filters, plastic parts, organic liquids, and a program to ensure the scrap materials are drained of free liquids.

(2) A materials acquisition program specifying that the scrap supplier remove accessible mercury switches from the trunks and hoods of any automotive bodies contained in the scrap and remove accessible lead components such as batteries and wheel weights. You must obtain and maintain onsite a copy of the procedures used by the scrap supplier for either removing accessible mercury switches to the extent practicable or for purchasing automobile bodies that have had mercury switches removed to the extent practicable, as applicable.

(3) Procedures for visual inspection of a representative portion of all incoming scrap shipments to ensure the materials meet the facility's non-ferrous scrap specifications.

(i) The inspection procedures must identify the location(s) where inspections are to be performed for each type of shipment. Inspections may be performed at the scrap supplier's facility. The selected location(s) must provide a reasonable vantage point, considering worker safety, for visual inspection.

(ii) The inspection procedures must include recordkeeping requirements that document each visual inspection and the results.

(iii) The inspection procedures must include provisions for rejecting scrap shipments that do not meet specifications

## SECTION D. Source Level Requirements

and limiting purchases from vendors whose shipments fail to meet specifications for more than three inspections in one calendar year.

(iv) If the inspections are performed at the scrap supplier's facility, the inspection procedures must include an explanation of how the periodic inspections ensure that a representative portion of scrap purchased from each supplier is subject to inspection.

[From plan approvals 62-032B & 62-032F, Section D, Source 117, Condition # 004]

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

## SECTION D. Source Level Requirements

Source ID: 118 Source Name: ENS SLAG HANDLING

Source Capacity/Throughput: 10.000 Tons/HR SLAG

PROC 118 → STAC Z118

### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The PM-10 emissions from the slag handling shall not exceed 0.015 lb/ton and 0.17 tpy (based on a 12-month rolling total).

[From plan approvals 62-032B & 62-032F, Section D, Source 118, Condition # 001]

### Throughput Restriction(s).

**# 002 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The throughput for the source shall not exceed 22,000 ton of slag based on a 12-month rolling total.

[From plan approvals 62-032B & 62-032F, Section D, Source 118, Condition # 002, as modified based upon the July 17, 2012 approval of eRFD # 3036 to increase slag processed from 16,500 tpy to 22,000 tpy.]

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

**# 003 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The permittee shall keep a record of the hours of operation of the source.

(b) The permittee shall keep a record of the quantity of slag generated by this source.

(c) The permittee shall keep a record of the emissions from the source.

(d) The records shall be maintained for a minimum of 5 years.

[From plan approvals 62-032B & 62-032F, Section D, Source 118, Condition # 003.]

**# 004 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The emissions shall be calculated on a monthly basis for the source based on the steel generated by the source (tons) multiplied by the emission limit (lb/ton).

[From plan approvals 62-032B & 62-032F, Section D, Source 118, Condition # 004.]

## 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.

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.

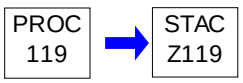
No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

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

## SECTION D. Source Level Requirements

Source ID: 119 Source Name: ENX VEHICLE TRAVEL

Source Capacity/Throughput: 1.000 Miles/HR TRUCKS




### I. RESTRICTIONS.

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

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

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

### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

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

### VII. ADDITIONAL REQUIREMENTS.

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

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

## SECTION D. Source Level Requirements

Source ID: 121 Source Name: ENC CRANKSHAFT DEGREASING

Source Capacity/Throughput: 1.000 Gal/HR SOLVENT DEGREASING

PROC 121 → STAC Z121

### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The VOC emissions from the degreasing solution shall not exceed 7.6 lb/gallon.

(b) The VOC emissions shall not exceed 9.5 TPY from the source based on a 12-month rolling total).

[From plan approvals 62-032B and 62-032F.]

### Throughput Restriction(s).

**# 002 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The permittee shall not use more than 2,500 gallons of degreasing solution for this source based on a 12-month rolling total.

[From plan approvals 62-032B and 62-032F.]

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

**# 003 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The permittee shall keep records of the degreasing solution utilized by the source on a daily basis.

(b) The permittee shall keep a record of the hours of operation of the source.

(c) The permittee shall keep a record of the emissions from the source.

(d) The records shall be maintained for a minimum of 5 years.

[From plan approvals 62-032B and 62-032F.]

**# 004 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The emissions shall be calculated on a monthly basis for the source based on the production quantity of degreasing solution utilized multiplied by the emission limit (lb/gal) and the hours of operation.

## SECTION D. Source Level Requirements

[From plan approvals 62-032B and 62-032F.]

### 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 D. Source Level Requirements

Source ID: 122 Source Name: ENS LADLE FURNACE

Source Capacity/Throughput: 1.000 Tons/HR STEEL

Conditions for this source occur in the following groups: 10 - TESTING REQUIREMENTS


### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The PM-10 emissions from the baghouse that controls the ladle furnace shall not exceed the following:

(a) 0.0035 gr/dscf;
(b) 0.02 lb/ton of steel; and
(c) 1.5 TPY (based on a 12 month rolling total).

[From plan approvals 62-032B and 62-032F.]

### II. TESTING REQUIREMENTS.

**# 002 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) [The initial stack tests conducted on the EAF and the Ladle Furnace for compliance with plan approval 62-032B has already been met and the requirement for protocol submission is printed in Section E of this operating permit.]

(b) Stack tests shall be performed in accordance with the provisions of Chapter 139 to show compliance with the PM-10 emission limits for the ladle furnace. The stack tests shall be performed while the aforementioned sources are operating at the normal maximum production.

(c) [The requirement for test notificaiton is printed in Section E of this operating permit.]

(d) [The requirement for test report submission is printed in Section E of this operating permit.]

(e) After completion of the initial performace test, the source shall be stack tested at least once every 5 years (or at least once during the term of the Title V Operating Permit) for PM-10 emissions.

[The Source 101A EAF and Source 122 Ladle Furnace were tested on July 9-12, 2018, and the test report was reviewed by the DEP Air Quality Division of Source Testing on June 2, 2020.]

[From plan approvals 62-032B and 62-032F.]

### III. MONITORING REQUIREMENTS.

**# 003 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The following are CAM related requirements.

(a) The permittee shall use the approved process parameter(s) or indicator(s) to obtain data and monitor the emission control equipment performance. The approved parameter(s) or indicator(s) are:
(1) Pressure drop across the baghouse
(2) Fan Amperage

## SECTION D. Source Level Requirements

(3) Visible emissions

(b) The permittee shall use the approved mean(s) or device(s) to measure the applicable indicator(s). The approved measuring device(s) are:
(1) Pressure gauges to measure the pressure drop across the baghouse.
(2) Ammeter to measure the fan amperage.
(3) Daily Method 9 observations.

(c) The permittee shall use the approved frequency for conducting monitoring of indicators.

(1) The approved frequency for pressure drop across the baghouse is continuous measurement.
(2) The approved frequency for fan amperage is continuous measurement.
(3) The approved frequency for Method 9 visible emissions is daily when the ladle furnace is operating. At least three 6-minute averages will be conducted.

[From plan approvals 62-032B and 62-032F] [Additional authority for parts (a) - (c) of this permit condition is also derived from 40 CFR §64.6 & §64.3]

### IV. RECORDKEEPING REQUIREMENTS.

**# 004 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The following are CAM related requirements.

(a) The permittee shall record at least once per 24-hour period the approved indicator(s) using approved data collecting device(s).

(1) The approved data collecting device for pressure drop is continuous records by the PLC.
(2) The approved data collecting device for fan amperage is continuous records by the PLC.
(3) The approved data collecting device for the Method 9 readings is the Method 9 observation sheets.

(b) 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.

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

(d) 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.

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

[From plan approvals 62-032B and 62-032F] [Additional authority for parts (a) - (d) of this permit condition is also derived from 40 CFR §64.9] [Additional authority for part (e) of this permit condition is also derived from 40 CFR §70.6(a)(3)(ii)(B)]

**# 005 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The permittee shall keep a record of the hours of operation of the source.

(b) The permitte shall keep a record of the quantity of steel processed by this source.

(c) The permittee shall keep a record of the emissions from the source.

(d) The records shall be maintained for a minimum of 5 years.

## SECTION D. Source Level Requirements

[From plan approvals 62-032B and 62-032F]

**# 006 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The emissions shall be calculated on a monthly basis for the source based on the production quantity of degreasing solution utilized multiplied by the emission limit (lb/gal) and the hours of operation.

[From plan approvals 62-032B and 62-032F.]

**# 007 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The emissions shall be calculated on a monthly basis for the source based on the steel processed by the source (tons) multiplied by the emission limit (lb/tons).

[From plan approvals 62-032B and 62-032F.]

### V. REPORTING REQUIREMENTS.

**# 008 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The following are CAM related requirements.

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

(b) 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 6 months.

[From plan approvals 62-032B and 62-032F.] [Additional authority for part (a) of this permit condition is also derived from 40 CFR §64.9 & §70.6(a)(3)(iii)(A).] [Additional authority for part (b) of this permit condition is also derived from 40 CFR §64.9.]

**# 009 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The permittee shall notify the Department of the ladle furnace fabric collector manufacturer and model number and provide the specific details of the control device (including drawings) that were not included in the plan approval application within 30 days of issuance of the plan approval.

[From plan approvals 62-032B and 62-032F.]

### VI. WORK PRACTICE REQUIREMENTS.

**# 010 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The following are CAM related requirements.

[Additional authority for part (a) of this permit condition is also derived from 40 CFR §64.3 & §64.6]

(a) T he permittee shall adhere to the approved range for the selected indicator 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.

(1) The approved range for the pressure drop across the baghouse shall be developed at the increased production rate and verified during the stack test.

## SECTION D. Source Level Requirements

[The approved pressure drop indicator range is 1.4 to 7.0 inches of water column].

(2) The approved range for the fan amperage shall be developed at the increased production rate and verified during the stack test.

[The approved fan amperage indicator range (East and West) is 34-46 Amps].

(3) The approved range for visible emissions is opacity less than 3 percent (based on six-minute average).

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

(1) 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.

(i) The differential pressure monitoring equipment shall be installed on the inlet and outlet of the baghouse.

(ii) The ammeter shall be installed to indicate the baghouse fan amperage.

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

(i) The operational status pertains to the first time calibration of new or modified equipment. The permittee may compare the data with any Department approved standardized data. For example, the permittee might compare a pressure gauge at a controlled pressure to that of a pressure standard of a know accuracy.

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

(i) The approved time intervals for calibration is the pressure drop gauges shall be calibrated and checked for accuracy quarterly. The pressure taps shall be checked on a daily basis.

(ii) The baghouse fan shall be checked during daily inspections and the ammeter shall be zeroed when the unit is not operating.

(iii) The Method 9 observer shall be certified on a semi-annual basis.

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

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

(e) 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 180 days after the issuance date of the permit.

[Additional authority for part (e) of this permit condition is also derived from 40 CFR §64.4]

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[Additional authority for the following permit conditions are also derived from 40 CFR §64.8]

Quality Improvement Plan Requirements

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

## SECTION D. Source Level Requirements

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

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

(b) In general, the QIP plan should be developed within 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 180 days from the date on which the need to implement the QIP was determined.

(c) 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.

(d) 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:

(1) Improved preventive maintenance practices
(2) Process operation changes
(3) Appropriate improvements to control methods
(4) Other steps appropriate to correct performance.

(e) Following implementation of a QIP, the Department will require reasonable revisions to the QIP if the plan has failed toeither:

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

(f) 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.

[From plan approvals 62-032B and 62-032F.]

**# 011 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

A magnehelic gauge shall be permanently installed and maintained at a conveniently readable location to indicate the pressure drop across each of the baghouse.

[From plan approvals 62-032B and 62-032F.]

**# 012 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

Twenty percent of the total number of bags in each of the baghouses is required to be on hand for replacement as necessary.

[From plan approvals 62-032B and 62-032F.]

**# 013 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The ladle furnace and the controls for the source shall be maintained and operated in accordance with the manufactures specifications and in accordance with good air pollution control practices.

(b) The owner and operator of the facility shall perform weekly preventative maintenance inspections of the fabric filters, and check the pressure drop across each of the fabric filters.

## SECTION D. Source Level Requirements

(c) The permittee shall conduct a weekly inspection of the dust removal system to ensure proper function of the removal mechanisms.

(d) The permittee shall perform a monthly visual inspection of the bag cleaning mechanisms for proper function.

(e) The permittee shall perform a monthly visual inspection of the bag tensioning mechanism.

(f) The permitee shall perform a quarterly inspection of the physical integrity of the baghouse including inspecting the interior for air leaks.

(g) The permittee shall inspect the fan for signs of wear, material buildup, and corrosion on a quarterly basis.

[From plan approvals 62-032B and 62-032F.]

**# 014 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The ladle furnace shall be controlled by the fabric collector during all times that the sources are operated.

[From plan approvals 62-032B and 62-032F.]

### 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: 123 Source Name: ENX DEGREASER UNITS (4)

Source Capacity/Throughput: 1.000 Lbs/HR SOLVENT

PROC 123 → STAC Z123

### I. RESTRICTIONS.

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

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

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

### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

**# 001 [25 Pa. Code §129.63]**

**Degreasing operations**

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

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

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

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

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

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

## SECTION D. Source Level Requirements

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(7) Paragraph (4) does not apply:

(i) [Paragraph (a)(7)(i) does not apply to this source.]

(ii) If the owner or operator of the cold cleaning machine demonstrates, and the Department approves in writing, that compliance with paragraph (4) will result in unsafe operating conditions.

(iii) To immersion cold cleaning machines with a freeboard ratio equal to or greater than 0.75.

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

## 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).

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

## SECTION D. Source Level Requirements

Source ID: 127 Source Name: ENS PIPE MOLD CLEANING MACHINE

Source Capacity/Throughput: 1.000 Tons/HR STEEL


### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [25 Pa. Code §123.13]**

**Processes**

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

### 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 [25 Pa. Code §127.511]**

**Monitoring and related recordkeeping and reporting requirements.**

(a) The permittee shall maintain a record of all preventive maintenance inspections of the control device.

(b) These records shall at a minimum contain the following.

- dates of the inspections,
- the name or employee ID of the person performing the maintenance or inspection,
- any problems or defects,
- the actions taken to correct the problem or defects,
- any routine maintenance performed, and
- the pressure drop across the control device.

### 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.

**# 003 [25 Pa. Code §127.511]**

**Monitoring and related recordkeeping and reporting requirements.**

(a) The permittee shall perform a weekly preventive maintenance inspection of the control device.

(b) The permittee shall maintain a manometer or similar device to measure the pressure drop across the control device. The pressure drop shall be maintained in the range of 1 to 7 inches of water column.

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

## SECTION D. Source Level Requirements

(d) The permittee shall maintain and operate this source and the control device 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).

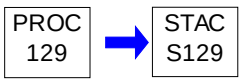
***** Permit Shield in Effect. *****

## SECTION D. Source Level Requirements

Source ID: 129 Source Name: ENF/ENC 'NEW' NAT GAS FUELED EMERG GENERATORS (7) 5KW-125 KW

Source Capacity/Throughput: 1.000 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 06 - ENGINES - STATE REQMTS
07 - ENGINES NEWER THAN 2007, 60-JJJJ




### I. RESTRICTIONS.

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

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

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

### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

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

### VII. ADDITIONAL REQUIREMENTS.

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

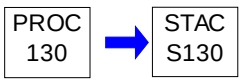
***** Permit Shield in Effect. *****

## SECTION D. Source Level Requirements

Source ID: 130 Source Name: ENF 'EXISTING' EMERG ENGINES: 1 NAT GAS 20HP, 1 DIESEL 244HP

Source Capacity/Throughput: 1.000 Gal/HR Diesel Fuel
1.000 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 06 - ENGINES - STATE REQMTS
08 - ENGINES OLDER THAN 2007, 63-ZZZZ




### I. RESTRICTIONS.

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

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

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

### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

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

### VII. ADDITIONAL REQUIREMENTS.

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

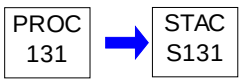
***** Permit Shield in Effect. *****

## SECTION D. Source Level Requirements

Source ID: 131 Source Name: ENF CUMMINS NAT GAS EMER GEN 42KW 56HP INSTALLED 8/23/2006

Source Capacity/Throughput: 1.000 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 06 - ENGINES - STATE REQMTS




### I. RESTRICTIONS.

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

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

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

### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

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

### VII. ADDITIONAL REQUIREMENTS.

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

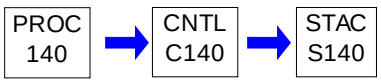
***** Permit Shield in Effect. *****

## SECTION D. Source Level Requirements

Source ID: 140 Source Name: ENF SPRAY BOOTH FOR SURFACE COATING

Source Capacity/Throughput: 1.000 Gal/HR COATING

Conditions for this source occur in the following groups: 09 - PARTICULATE CONTROL




### I. RESTRICTIONS.

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

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

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

### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

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

### VII. ADDITIONAL REQUIREMENTS.

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

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

## SECTION D. Source Level Requirements

Source ID: 141 Source Name: ENS MOLD CLEANING BLAST STATION, EAST

Source Capacity/Throughput: 1.000 Tons/HR METAL


### I. RESTRICTIONS.

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

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

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

### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

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

### VII. ADDITIONAL REQUIREMENTS.

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

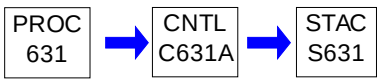
***** Permit Shield in Effect. *****

## SECTION D. Source Level Requirements

Source ID: 631 Source Name: ENC NITRIDE FURNACE

Source Capacity/Throughput: 1.000 Tons/HR STEEL

Conditions for this source occur in the following groups: 05 - ENC NITRIDE FURNACES




### I. RESTRICTIONS.

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### 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.

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### IV. RECORDKEEPING REQUIREMENTS.

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### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

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

### VII. ADDITIONAL REQUIREMENTS.

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

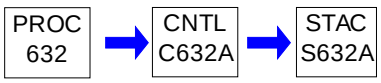
***** Permit Shield in Effect. *****

## SECTION D. Source Level Requirements

Source ID: 632 Source Name: ENC NITRIDE FURNACE

Source Capacity/Throughput: 1.000 Tons/HR STEEL

Conditions for this source occur in the following groups: 05 - ENC NITRIDE FURNACES




### 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.

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### IV. RECORDKEEPING REQUIREMENTS.

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### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

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

### VII. ADDITIONAL REQUIREMENTS.

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

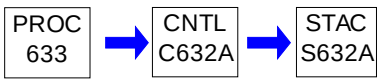
***** Permit Shield in Effect. *****

## SECTION D. Source Level Requirements

Source ID: 633 Source Name: ENC NITRIDE FURNACE

Source Capacity/Throughput: 1.000 Tons/HR STEEL

Conditions for this source occur in the following groups: 05 - ENC NITRIDE FURNACES




### I. RESTRICTIONS.

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

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

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

### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

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

### VII. ADDITIONAL REQUIREMENTS.

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

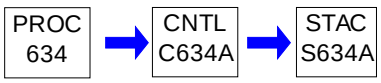
***** Permit Shield in Effect. *****

## SECTION D. Source Level Requirements

Source ID: 634 Source Name: ENC NITRIDE FURNACE

Source Capacity/Throughput: 1.000 Tons/HR STEEL

Conditions for this source occur in the following groups: 05 - ENC NITRIDE FURNACES




### I. RESTRICTIONS.

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

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

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

### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

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

### VII. ADDITIONAL REQUIREMENTS.

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

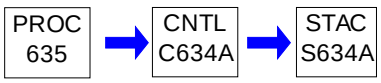
***** Permit Shield in Effect. *****

## SECTION D. Source Level Requirements

Source ID: 635 Source Name: ENC NITRIDE FURNACE

Source Capacity/Throughput: 1.000 Tons/HR STEEL

Conditions for this source occur in the following groups: 05 - ENC NITRIDE FURNACES




### 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.

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### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

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

### VII. ADDITIONAL REQUIREMENTS.

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

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

## SECTION E. Source Group Restrictions.

Group Name: 01 - 40 CFR PART 60 SUBPART DC

Group Description: 40 CFR Part 60 Subpart Dc, Standards for Small Industrial Steam Generatoring Units

Sources included in this group

| ID | Name |
|---|---|
| 038 | ENF MIURA NATURAL GAS BOILER #3 EQUIPMENT #976(11.5MMBTU/HR) |
| 040 | ENS WEISHAUPT NATURAL GAS BOILER (29.6 MMBTU/HR) |

### I. RESTRICTIONS.

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

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

**# 001 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

All records required by this permit shall be maintained by the owner or operator of the affected facility for a period of 5 years following the date of such record.

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

**# 002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]**

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

**Reporting and recordkeeping requirements.**

(a) - (f) [These paragraphs of the regulation are not applicable to these boilers.]

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

(2) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in §60.48c(f) to demonstrate compliance with the SO2 standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

(3) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility or multiple affected facilities located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to this subpart) at that property are natural gas, wood, distillate oil meeting the most current requirements in §60.42C to use fuel certification to demonstrate compliance with the SO2 standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month.

(h) [Not applicable.]

(i) [Paragraph (i) of the regulation is streamlined out of this operating permit in favor of the more stringent 25 Pa. Code § 127.441 requirement in this section of the permit that requires that records be maintained for a period of 5 years.]

(j) [Not applicable.]

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

## 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).

### VI. WORK PRACTICE REQUIREMENTS.

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

### VII. ADDITIONAL REQUIREMENTS.

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

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

## SECTION E. Source Group Restrictions.

Group Name: 02 - 40 CFR PART 60 SUBPART AA-A

Group Description: 40 CFR Part 60 Subpart AAa, Standards for Electric Arc Furances & Argon-Oxygen Decarburizatic

Sources included in this group

| ID | Name |
|---|---|
| 101A | ENS 45T ELECTRIC ARC FURNACE |

### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.272a]**

**Subpart AAa - Standards of Performance for Steel Plants: Electric Arc Furnaces and Argon-Oxygen Decarburization Vessels Constructed After August 7, 1983**

**Standard for particulate matter.**

(a) On and after the date of which the performance test required to be conducted by § 60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from an EAF or an AOD vessel any gases which:

(1) Exit from a control device and contain particulate matter in excess of 12 mg/dscm (0.0052 gr/dscf);

(2) Exit from a control device and exhibit 3 percent opacity or greater; and

(3) Exit from a shop and, due solely to the operations of any affected EAF(s) or AOD vessel(s), exhibit 6 percent opacity or greater.

(b) On and after the date on which the performance test required to be conducted by § 60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from the dust-handling system any gases that exhibit 10 percent opacity or greater.

[Source: 49 FR 43845, Oct. 31, 1984]

[The requirements of 40 CFR § 60.272a satisfy the requirements of 40 CFR § 63.10686 of Part 63 Subpart YYYYY for Source 101A.]

### II. TESTING REQUIREMENTS.

**# 002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.275a]**

**Subpart AAa - Standards of Performance for Steel Plants: Electric Arc Furnaces and Argon-Oxygen Decarburization Vessels Constructed After August 7, 1983**

**Test methods and procedures.**

(a) - (j) [This subsection is no longer applicable because it pertains to performance testing in accordance with 40 CFR § 60.8 which is a one-time requirement for an initial performance test which has already been met.]

[49 FR 43845, Oct. 31, 1984, as amended at 54 FR 6673, Feb. 14, 1989; 54 FR 21344, May 17, 1989; 65 FR 61758, Oct. 17, 2000]

### III. MONITORING REQUIREMENTS.

**# 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.273a]**

**Subpart AAa - Standards of Performance for Steel Plants: Electric Arc Furnaces and Argon-Oxygen Decarburization Vessels Constructed After August 7, 1983**

**Emission monitoring.**

(a) Except as provided under paragraphs (b) and (c) of this section, a continuous monitoring system for the measurement of the opacity of emissions discharged into the atmosphere from the control device(s) shall be installed, calibrated, maintained, and operated by the owner or operator subject to the provisions of this subpart.

(b) No continuous monitoring system shall be required on any control device serving the dust-handling system.

## SECTION E. Source Group Restrictions.

(c) A continuous monitoring system for the measurement of the opacity of emissions discharged into the atmosphere from the control device(s) is not required on any modular, multi-stack, negative-pressure or positive-pressure fabric filter if observations of the opacity of the visible emissions from the control device are performed by a certified visible emission observer; or on any single-stack fabric filter if visible emissions from the control device are performed by a certified visible emission observer and the owner installs and continuously operates a bag leak detection system according to paragraph (e) of this section. Visible emission observations shall be conducted at least once per day for at least three 6-minute periods when the furnace is operating in the melting and refining period. All visible emissions observations shall be conducted in accordance with Method 9. If visible emissions occur from more than one point, the opacity shall be recorded for any points where visible emissions are observed. Where it is possible to determine that a number of visible emission sites relate to only one incident of the visible emission, only one set of three 6-minute observations will be required. In that case, the Method 9 observations must be made for the site of highest opacity that directly relates to the cause (or location) of visible emissions observed during a single incident. Records shall be maintained of any 6-minute average that is in excess of the emission limit specified in § 60.272a(a).

(d) - (g) [Paragraphs (d) through (g) of the regulation are not applicable.]

[49 FR 43845, Oct. 31, 1984, as amended at 54 FR 6672, Feb. 14, 1989; 64 FR 10111, Mar. 2, 1999; 70 FR 8532, Feb. 22, 2005]

**# 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.274a]**

**Subpart AAa - Standards of Performance for Steel Plants: Electric Arc Furnaces and Argon-Oxygen Decarburization Vessels Constructed After August 7, 1983**

**Monitoring of operations.**

(a) The owner or operator subject to the provisions of this subpart shall maintain records of the following information:

(1) [Not applicable]

(2) All monthly operational status inspections performed under paragraph (c) of this section.

(b) [Not applicable]

(c) When the owner or operator of an affected facility is required to demonstrate compliance with the standards under § 60.272a(a)(3) and at any other time that the Administrator may require (under section 114 of the CAA, as amended) either: the control system fan motor amperes and all damper positions, the volumetric flow rate through each separately ducted hood, or the volumetric flow rate at the control device inlet and all damper positions shall be determined during all periods in which a hood is operated for the purpose of capturing emissions from the affected facility subject to paragraph (b) of this section. The owner or operator may petition the Administrator for reestablishment of these parameters whenever the owner or operator can demonstrate to the Administrator's satisfaction that the affected facility operating conditions upon which the parameters were previously established are no longer applicable. The values of these parameters as determined during the most recent demonstration of compliance shall be maintained at the appropriate level for each applicable period. Operation at other than baseline values may be subject to the requirements of § 60.276a(c).

(d) Except as provided under paragraph (e) of this section, the owner or operator shall perform monthly operational status inspections of the equipment that is important to the performance of the total capture system (i.e., pressure sensors, dampers, and damper switches). This inspection shall include observations of the physical appearance of the equipment (e.g., presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in ductwork, and fan erosion). Any deficiencies shall be noted and proper maintenance performed.

(e) The owner or operator may petition the Administrator to approve any alternative to either the monitoring requirements specified in paragraph (b) of this section or the monthly operational status inspections specified in paragraph (d) of this section if the alternative will provide a continuous record of operation of each emission capture system.

(f) [Not applicable]

(g) [Not applicable]

(h) [No longer applicable because this one-time requirement has already been met with the initial performance test.]

## SECTION E. Source Group Restrictions.

[49 FR 43845, Oct. 31, 1984, as amended at 64 FR 10111, Mar. 2, 1999; 65 FR 61758, Oct. 17, 2000; 70 FR 8533, Feb. 22, 2005]

### IV. RECORDKEEPING REQUIREMENTS.

**# 005 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Records of the measurements required in 40 CFR § 60.274a must be retained for at least 5 years following the date of the measurement.

### V. REPORTING REQUIREMENTS.

**# 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.276a]**

**Subpart AAa - Standards of Performance for Steel Plants: Electric Arc Furnaces and Argon-Oxygen Decarburization Vessels Constructed After August 7, 1983**

**Recordkeeping and reporting requirements.**

(a) [The recordkeeping requirement of § 60.276a(a) is streamlined out of the operating permit in favor of a 25 Pa. Code § 127.441 which requires the records to be maintained for 5 years.]

(b) Each owner or operator shall submit a written report of exceedances of the control device opacity to the Administrator semi-annually. For the purposes of these reports, exceedances are defined as all 6-minute periods during which the average opacity is 3 percent or greater.

(c) Operation at a furnace static pressure that exceeds the value established under § 60.274a(g) and either operation of control system fan motor amperes at values exceeding ±15 percent of the value established under § 60.274a(c) or operation at flow rates lower than those established under § 60.274a(c) may be considered by the Administrator to be unacceptable operation and maintenance of the affected facility. Operation at such values shall be reported to the Administrator semiannually.

(d) The requirements of this section remain in force until and unless EPA, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such State. In that event, affected sources within the State will be relieved of the obligation to comply with this section, provided that they comply with the requirements established by the State.

(e) [Not applicable]

(f) [No longer applicable since this is a one-time requirement for submission of the report for the initial performance test which has already been met.]

(g) The owner or operator shall maintain records of all shop opacity observations made in accordance with § 60.273a(d). All shop opacity observations in excess of the emission limit specified in § 60.272a(a)(3) of this subpart shall indicate a period of excess emission, and shall be reported to the administrator semi-annually, according to § 60.7(c).

(h) [Not applicable]

[49 FR 43845, Oct. 31, 1984, as amended at 54 FR 6673, Feb. 14, 1989; 64 FR 10111, Mar. 2, 1999; 65 FR 61758, Oct. 17, 2000; 70 FR 8533, Feb. 22, 2005]

### 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.

**# 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.270a]**

**Subpart AAa - Standards of Performance for Steel Plants: Electric Arc Furnaces and Argon-Oxygen Decarburization Vessels Constructed After August 7, 1983**

**Applicability and designation of affected facility.**

## SECTION E. Source Group Restrictions.

(a) The provisions of this subpart are applicable to the following affected facilities in steel plants that produce carbon, alloy, or specialty steels: electric arc furnaces, argon-oxygen decarburization vessels, and dust-handling systems.

(b) The provisions of this subpart apply to each affected facility identified in paragraph (a) of this section that commences construction, modification, or reconstruction after August 17, 1983.

[Source: 49 FR 43845, Oct. 31, 1984]

**# 008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.271a]**

**Subpart AAa - Standards of Performance for Steel Plants: Electric Arc Furnaces and Argon-Oxygen Decarburization Vessels Constructed After August 7, 1983**

**Definitions.**

As used in this subpart, all terms not defined herein shall have the meaning given them in the Act and in subpart A of this part.

Argon-oxygen decarburization vessel (AOD vessel) means any closed-bottom, refractory-lined converter vessel with submerged tuyeres through which gaseous mixtures containing argon and oxygen or nitrogen may be blown into molten steel for further refining.

Bag leak detection system means a system that is capable of continuously monitoring relative particulate matter (dust) loadings in the exhaust of a baghouse to detect bag leaks and other conditions that result in increases in particulate loadings. A bag leak detection system includes, but is not limited to, an instrument that operates on triboelectric, electrodynamic, light scattering, light transmittance, or other effect to continuously monitor relative particulate matter loadings.

Capture system means the equipment (including ducts, hoods, fans, dampers, etc.) used to capture or transport particulate matter generated by an electric arc furnace or AOD vessel to the air pollution control device.

Charge means the addition of iron and steel scrap or other materials into the top of an electric arc furnace or the addition of molten steel or other materials into the top of an AOD vessel.

Control device means the air pollution control equipment used to remove particulate matter from the effluent gas stream generated by an electric arc furnace or AOD vessel.

Direct-shell evacuation control system (DEC system) means a system that maintains a negative pressure within the electric arc furnace above the slag or metal and ducts emissions to the control device.

Dust-handling system means equipment used to handle particulate matter collected by the control device for an electric arc furnace or AOD vessel subject to this subpart. For the purposes of this subpart, the dust-handling system shall consist of the control device dust hoppers, the dust-conveying equipment, any central dust storage equipment, the dust-treating equipment (e.g., pug mill, pelletizer), dust transfer equipment (from storage to truck), and any secondary control devices used with the dust transfer equipment.

Electric arc furnace (EAF) means a furnace that produces molten steel and heats the charge materials with electric arcs from carbon electrodes. For the purposes of this subpart, an EAF shall consist of the furnace shell and roof and the transformer. Furnaces that continuously feed direct-reduced iron ore pellets as the primary source of iron are not affected facilities within the scope of this definition.

Heat cycle means the period beginning when scrap is charged to an empty EAF and ending when the EAF tap is completed or beginning when molten steel is charged to an empty AOD vessel and ending when the AOD vessel tap is completed.

Meltdown and refining period means the time period commencing at the termination of the initial charging period and ending at the initiation of the tapping period, excluding any intermediate charging periods and times when power to the EAF is off.

Melting means that phase of steel production cycle during which the iron and steel scrap is heated to the molten state.

## SECTION E. Source Group Restrictions.

Negative-pressure fabric filter means a fabric filter with the fans on the downstream side of the filter bags.

Positive-pressure fabric filter means a fabric filter with the fans on the upstream side of the filter bags.

Refining means that phase of the steel production cycle during which undesirable elements are removed from the molten steel and alloys are added to reach the final metal chemistry.

Shop means the building which houses one or more EAF's or AOD vessels.

Shop opacity means the arithmetic average of 24 observations of the opacity of emissions from the shop taken in accordance with Method 9 of appendix A of this part.

Tap means the pouring of molten steel from an EAF or AOD vessel.

Tapping period means the time period commencing at the moment an EAF begins to pour molten steel and ending either three minutes after steel ceases to flow from an EAF, or six minutes after steel begins to flow, whichever is longer.

[49 FR 43845, Oct. 31, 1984, as amended at 64 FR 10110, Mar. 2, 1999; 70 FR 8532, Feb. 22, 2005]

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

## SECTION E. Source Group Restrictions.

Group Name: 03 - 40 CFR PART 63 SUBPART YYYYY

Group Description: 40 CFR Part 63 Subpart YYYYY, NESHAP for Electric Arc Furnace Steelmaking Facilities

Sources included in this group

| ID | Name |
|---|---|
| 117 | ENS SCRAP HANDLING |

### I. RESTRICTIONS.

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

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

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

### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

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

### VII. ADDITIONAL REQUIREMENTS.

**# 001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10685]**

**Subpart YYYYY - National Emission Standards for Hazardous Air Pollutants for Area Sources: Electric Arc Furnace Steelmaking Facilities**

**What are the requirements for the control of contaminants from scrap?**

[This condition contains requirements for Recordkeeping, Reporting, and Work Practices.]

[40 CFR Parts 261 through 265 and 268 are referenced below and are available at this web address: https://www.ecfr.gov/current/title-40/part-268 ]

[40 CFR § 63.10 is referenced below and a copy of the regulation is available at this web address: https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-A/section-63.10 ]

(a) Chlorinated plastics, lead, and free organic liquids. For metallic scrap utilized in the EAF at your facility, you must comply with the requirements in either paragraph (a)(1) or (2) of this section. You may have certain scrap at your facility subject to paragraph (a)(1) of this section and other scrap subject to paragraph (a)(2) of this section provided the scrap remains segregated until charge make-up.

(1) [Paragraph (a)(1) of the regulation does not apply to this facility because they comply with (a)(2).]

(2) Restricted metallic scrap. For the production of steel other than leaded steel, you must not charge to a furnace metallic scrap that contains scrap from motor vehicle bodies, engine blocks, oil filters, oily turnings, machine shop borings,

**SECTION E. Source Group Restrictions.**

transformers or capacitors containing polychlorinated biphenyls, lead-containing components, chlorinated plastics, or free organic liquids. For the production of leaded steel, you must not charge to the furnace metallic scrap that contains scrap from motor vehicle bodies, engine blocks, oil filters, oily turnings, machine shop borings, transformers or capacitors containing polychlorinated biphenyls, chlorinated plastics, or free organic liquids. This restriction does not apply to any post-consumer engine blocks, post-consumer oil filters, or oily turnings that are processed or cleaned to the extent practicable such that the materials do not include lead components, chlorinated plastics, or free organic liquids. This restriction does not apply to motor vehicle scrap that is charged to recover the chromium or nickel content if you meet the requirements in paragraph (b)(3) of this section.

(b) Mercury requirements. For scrap containing motor vehicle scrap, you must procure the scrap pursuant to one of the compliance options in paragraphs (b)(1), (2), or (3) of this section for each scrap provider, contract, or shipment. For scrap that does not contain motor vehicle scrap, you must procure the scrap pursuant to the requirements in paragraph (b)(4) of this section for each scrap provider, contract, or shipment. You may have one scrap provider, contract, or shipment subject to one compliance provision and others subject to another compliance provision.

(1) [Paragraph (b)(1) of the regulation does not apply to this facility because they do not accept mercury- containing motor vehicle scrap.]

(2) Option for approved mercury programs. You must certify in your notification of compliance status that you participate in and purchase motor vehicle scrap only from scrap providers who participate in a program for removal of mercury switches that has been approved by the Administrator based on the criteria in paragraphs (b)(2)(i) through (iii) of this section. If you purchase motor vehicle scrap from a broker, you must certify that all scrap received from that broker was obtained from other scrap providers who participate in a program for the removal of mercury switches that has been approved by the Administrator based on the criteria in paragraphs (b)(2)(i) through (iii) of this section. The National Vehicle Mercury Switch Recovery Program and the Vehicle Switch Recovery Program mandated by Maine State law are EPA-approved programs under paragraph (b)(2) of this section unless and until the Administrator disapproves the program (in part or in whole) under paragraph (b)(2)(iii) of this section.

(i) The program includes outreach that informs the dismantlers of the need for removal of mercury switches and provides training and guidance for removing mercury switches;

(ii) The program has a goal to remove at least 80 percent of mercury switches from the motor vehicle scrap the scrap provider processes. Although a program approved under paragraph (b)(2) of this section may require only the removal of convenience light switch mechanisms, the Administrator will credit all documented and verifiable mercury-containing components removed from motor vehicle scrap (such as sensors in anti-locking brake systems, security systems, active ride control, and other applications) when evaluating progress towards the 80 percent goal; and

(iii) The program sponsor agrees to submit progress reports to the Administrator no less frequently than once every year that provide the number of mercury switches removed or the weight of mercury recovered from the switches, the estimated number of vehicles processed, an estimate of the percent of mercury switches recovered, and certification that the recovered mercury switches were recycled at facilities with permits as required under the rules implementing subtitle C of RCRA (40 CFR parts 261 through 265 and 268). The progress reports must be based on a database that includes data for each program participant; however, data may be aggregated at the State level for progress reports that will be publicly available. The Administrator may change the approval status of a program or portion of a program (e.g., at the State level) following 90-days notice based on the progress reports or on other information.

(iv) You must develop and maintain onsite a plan demonstrating the manner through which your facility is participating in the EPA-approved program.

(A) The plan must include facility-specific implementation elements, corporate-wide policies, and/or efforts coordinated by a trade association as appropriate for each facility.

(B) You must provide in the plan documentation of direction to appropriate staff to communicate to suppliers throughout the scrap supply chain the need to promote the removal of mercury switches from end-of-life vehicles. Upon the request of the permitting authority, you must provide examples of materials that are used for outreach to suppliers, such as letters, contract language, policies for purchasing agents, and scrap inspection protocols.

**SECTION E. Source Group Restrictions.**

(C) You must conduct periodic inspections or provide other means of corroboration to ensure that scrap providers are aware of the need for and are implementing appropriate steps to minimize the presence of mercury in scrap from end-of-life vehicles.

(3) Option for specialty metal scrap. You must certify in your notification of compliance status that the only materials from motor vehicles in the scrap are materials recovered for their specialty alloy (including, but not limited to, chromium, nickel, molybdenum, or other alloys) content (such as certain exhaust systems) and, based on the nature of the scrap and purchase specifications, that the type of scrap is not reasonably expected to contain mercury switches.

(4) Scrap that does not contain motor vehicle scrap. For scrap not subject to the requirements in paragraphs (b)(1) through (3) of this section, you must certify in your notification of compliance status and maintain records of documentation that this scrap does not contain motor vehicle scrap.

(c) Recordkeeping and reporting requirements. In addition to the records required by § 63.10, you must keep records to demonstrate compliance with the requirements for your pollution prevention plan in paragraph (a)(1) of this section and/or for the use of only restricted scrap in paragraph (a)(2) of this section and for mercury in paragraphs (b)(1) through (3) of this section as applicable. You must keep records documenting compliance with paragraph (b)(4) of this section for scrap that does not contain motor vehicle scrap.

(1) [Paragraph (c)(1) of the regulation does not apply because this facility does not accept mercury-containing motor vehicle scrap.]

(2) If you are subject to the option for approved mercury programs under paragraph (b)(2) of this section, you must maintain records identifying each scrap provider and documenting the scrap provider's participation in an approved mercury switch removal program. If you purchase motor vehicle scrap from a broker, you must maintain records identifying each broker and documentation that all scrap provided by the broker was obtained from other scrap providers who participate in an approved mercury switch removal program.

(3) You must submit semiannual compliance reports to the Administrator for the control of contaminants from scrap according to the requirements in § 63.10(e). The report must clearly identify any deviation from the requirements in paragraphs (a) and (b) of this section and the corrective action taken. You must identify which compliance option in paragraph (b) of this section applies to each scrap provider, contract, or shipment.

[Source: 72 FR 74111, Dec. 28, 2007]

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

## SECTION E. Source Group Restrictions.

Group Name: 04 - RACT I

Group Description: SIP'd Conditions from RACT I approval and permit # 62-032 issued May 31, 1995

Sources included in this group

| ID | Name |
|---|---|
| 103 | ENS ANNEALING FURNACES #2, #3 & #4 (3) |
| 111 | ENF HEAT TREAT FURNACES (13) |
| 112 | ENC HEAT TREAT FURNACES (7 HORIZONTAL; 2 OTHER) |

### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

NOx emission from the following sources shall not exceed 34.9 tons per year:

- (3) Forge (annealing) Furnaces
- (21) Heat Treat Furnaces
- (9) Heat Treat Furnaces

[From the May 31, 1995, issuance of RACT Approval Number 62-032, Condition Number 4.]

[Authority for this condition is also derived from 25 Pa. Code § 129.91. RACT operating permit OP-62-032 is part of the Pennsylvania State Implementation Plan (SIP) and a copy of the permit is available at this web address: https://www.epa.gov/sips-pa/pennsylvania-sip-source-specific-requirement-national-forge-company]

### 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 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The company shall show compliance with the 34.9 ton per year NOx RACT emission limitation. Records shall be maintained in accordance with 25 Pa Code § 129.95, and shall be made available to the Department upon request.

[From the May 31, 1995, issuance of RACT Approval Number 62-032, Condition Number 7]

[Authority for this condition is also derived from 25 Pa. Code § 129.95. RACT operating permit OP-62-032 is part of the Pennsylvania State Implementation Plan (SIP) and a copy of the permit is available at this web address: https://www.epa.gov/sips-pa/pennsylvania-sip-source-specific-requirement-national-forge-company]

### 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.

**# 003 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

(a) The following sources shall comply with presumptive RACT emission limitations defined in 25 Pa Code § 129.93(c)(1):

## SECTION E. Source Group Restrictions.

- (3) Forge Furnaces
- (21) Heat Treat Furnaces
- (9) Heat Treat Furnaces

(b) The sources shall be operated in a manner as not to cause air pollution.

[From the May 31, 1995, issuance of RACT Operating Permit Number OP 62-032, Condition Number 6.]

[Authority for this condition is also derived from 25 Pa. Code § 129.93. RACT operating permit OP-62-032 is part of the Pennsylvania State Implementation Plan (SIP) and a copy of the permit is available at this web address: https://www.epa.gov/sips-pa/pennsylvania-sip-source-specific-requirement-national-forge-company]

**# 004 [25 Pa. Code §129.93]**

**Presumptive RACT emission limitations**

[From 25 Pa. Code § 129.93(c)(1)]

(c) For the following source types, presumptive RACT emission limitations are the installation, maintenance and operation of the source in accordance with manufacturers specifications:

(1) Boilers and other combustion sources with individual rated gross heat inputs less than 20 million Btu/hour of 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 E. Source Group Restrictions.

Group Name: 05 - ENC NITRIDE FURNACES

Group Description: State restrictions & requirements for nitride furnaces

Sources included in this group

| ID | Name |
|---|---|
| 631 | ENC NITRIDE FURNACE |
| 632 | ENC NITRIDE FURNACE |
| 633 | ENC NITRIDE FURNACE |
| 634 | ENC NITRIDE FURNACE |
| 635 | ENC NITRIDE FURNACE |

### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) Emissions shall with 25 PA Code 123.1, 123.31, & 123.41 for fugitive, odor, and visible emissions respectively.

(b) No person may permit the emission into the outdoor atmosphere of filterable particulate matter (FPM) in a manner that the concentration of filterable particulate matter in the effluent gas exceeds 0.02 grain per dry standard cubic foot.

(c) The emissions from the outlet of the control device shall not exceed the following:

(1) Ammonia (NH3): 0.57 lb./hr per furnace

(2) Ammonia (NH3): 10.0 tpy based on a consecutive 12-month period for all five nitride furnaces (631, 632, 633, 634, & 635)

(3) NOx: 3.0 tpy based on a consecutive 12-month period for all five nitride furnaces (631, 632, 633, 634, & 635)

[Paragraph (a) is from plan approval 62-032C. Paragraph (b) is from plan approval 62-032G. Paragraph (c) is from plan approval 62-032G for Sources 632, 633, 634, & 635 issured November 22, 2010, and was modified with the Aug. 1, 2012, Title V operating permit renewal to include Source 631 which was added with the Sep. 9, 2011, RFD approval.]

### II. TESTING REQUIREMENTS.

**# 002 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

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

[Sources 632 & 633 (C632A) were tested on November 2, 2010. Sources 634 & 635 (C634A) were tested on June 7, 2016. Source 631 (C631A) was tested on July 21-22, 2022. Testing was performed to demonstrate compliance with Plan Approval 62-032G (which modified plan approval 62-032C) for Sources 632, 633, 634, & 635 and based upon information in eRFD #5637 approved on April 18, 2016, for Source 631. The test results showed that emissions from Sources 631, 632, 633, 634, and 635 are well within the limits; and the testing requirements are considered to be fulfilled as of the issuance of the 2023 Title V operating permit renewal.]

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

**# 003 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The permittee shall maintain a record of all preventive maintenance inspections of the control device(s). The records of the maintenance inspections shall include, at a minimum, the dates of the inspections, the name of the person performing

## SECTION E. Source Group Restrictions.

the inspection, any problems or defects identified, any actions taken to correct the problems or defects, and any routine maintenance performed.

(b) The permittee shall record the following operational data from the control device(s) (these records may be done with strip charts recorders, data acquisition systems, or manual log entries):

• Neutralizing chamber temperature - continuously as defined as at least once every 15 minutes

(c) The facility shall keep a record of the following and maintain for a minimum of 5 years:

(1) Ammonia (NH3) gas usage - monthly

(2) NOx emissions - monthly

(3) Ammonia (NH3) emissions - monthly

(4) 1-hour average neutralizing chamber temperature

[From Plan Approval 62-032C and plan approval 62-032G. Paragraph (c)(4) was approved and added in a May 27, 2011, memo based upon the initial inspection for Plan Approval 62-032G.]

### V. REPORTING REQUIREMENTS.

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

### VI. WORK PRACTICE REQUIREMENTS.

**# 004 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The permittee shall perform a daily operational inspection of the control devices.

(b) The control device minimum operating temperature in the neutralizing chamber shall be 1,535 °F based on a 1-hour average.

(c) All gauges employed by the permittee to monitor the required control device operating parameters shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (+/- 2%) of full scale reading.

(d) The permittee shall operate the control device associated with this source at all times that the source is in operation.

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

[From Plan Approval 62-032C and plan approval 62-032G. A modification to paragraph (b) was approved in a May 27, 2011, memo based upon the initial inspection for Plan Approval 62-032G.]

**# 005 [25 Pa. Code §127.511]**

**Monitoring and related recordkeeping and reporting requirements.**

The permitee may only operate four of the five furnaces at any time.

[The operating permit condition is derived from the information submitted for eRFD # 2307 which was approved on Sep. 9, 2011.]

### VII. ADDITIONAL REQUIREMENTS.

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

## SECTION E. Source Group Restrictions.

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

## SECTION E. Source Group Restrictions.

Group Name: 06 - ENGINES - STATE REQMTS

Group Description: State requirements for emergency engines

Sources included in this group

| ID | Name |
|---|---|
| 129 | ENF/ENC 'NEW' NAT GAS FUELED EMERG GENERATORS (7) 5KW-125 KW |
| 130 | ENF 'EXISTING' EMERG ENGINES: 1 NAT GAS 20HP, 1 DIESEL 244HP |
| 131 | ENF CUMMINS NAT GAS EMER GEN 42KW 56HP INSTALLED 8/23/2006 |

### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [25 Pa. Code §123.13]**

**Processes**

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

**# 002 [25 Pa. Code §123.21]**

**General**

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

### II. TESTING REQUIREMENTS.

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

### III. MONITORING REQUIREMENTS.

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

### IV. RECORDKEEPING REQUIREMENTS.

**# 003 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The facility shall maintain adequate records to demonstrate that all internal combustion engines on site which are exempt from the Plan Approval requirements of 25 Pa. Code §§ 127.11 and 127.12 continue to meet that exemption as specified below.

[From DEP document # 275-2101-003, Air Quality Exemptions, Section 127.14(a)(8), Exemption # 6: "Internal combustion engines regardless of size, with combined NOx emissions less than 100 lbs/hr, 1000 lbs/day, 2.75 tons per ozone season and 6.6 tons per year on a 12-month rolling basis for all exempt engines at the site."]

### 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 source shall be installed, maintained, and operated in accordance with the manufacturer's specifications and with good operating practices.

## 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: 07 - ENGINES NEWER THAN 2007, 60-JJJJ

Group Description: 40 CFR Part 60 Subpart JJJJ, Standards for Spark Ignition Internal Combustion Engines

Sources included in this group

| ID | Name |
|---|---|
| 129 | ENF/ENC 'NEW' NAT GAS FUELED EMERG GENERATORS (7) 5KW-125 KW |

### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60 Subpart JJJJ Table 1]**

**Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines**
**Table 1 to Subpart JJJJ of Part 60.--**

Table 1 to Subpart JJJJ of Part 60 -- NOX, CO, and VOC Emission Standards for Stationary Non-Emergency SI Engines >= 100 hp (Except Gasoline and Rich Burn LPG), Stationary SI Landfill/Digester Gas Engines, and Stationary Emergency Engines >25 hp

For Emergency Engine and Maximum engine power of 25 < HP < 130 and Manufacture date after 1/1/2009, Emission Standards are:

NOx + HC: 10 g/hp-hr (See note c)
CO: 387 g/hp-hr

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For Emergency Engine and Maximum engine power of HP >= 130, Emission Standards are:

NOx: 2.0 g/hp-hr (See note c)
CO: 4.0 g/hp-hr
VOC: 1.0 g/hp-hr (See note d)

NOx: 160 ppmvd at 15 % oxygen
CO: 540 ppmvd at 15 % oxygen
VOC: 86 ppmvd at 15 % oxygen (See note d)

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Notes:

note a [Not applicable.]

note b [Not applicable.]

note c The emission standards applicable to emergency engines between 25 HP and 130 HP are in terms of NOx + HC.

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

[76 FR 37975, June 28, 2011]

**# 002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4233]**

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

(a) - (c) [Not applicable.]

(d) Owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) and less than 75 KW (100 HP) (except gasoline and rich burn engines that use LPG) must comply with the emission standards for field testing in 40 CFR 1048.101(c) for their non-emergency stationary SI ICE and with the emission standards in Table 1 to this subpart for their emergency stationary SI ICE. Owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) and less than 75 KW (100 HP) manufactured prior to January 1, 2011, that were certified to the standards in Table 1 to this subpart applicable to engines with a maximum engine power greater than or equal to 100 HP and less than 500 HP, may optionally choose to meet those standards.

(e) Owners and operators of stationary SI ICE with a maximum engine power greater than or equal to 75 KW (100 HP)

## SECTION E. Source Group Restrictions.

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

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

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

**# 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4234]**

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

**How long must I meet the emission standards if I am an owner or operator of a stationary SI internal combustion engine**

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

[Source: 73 FR 3591, Jan. 18, 2008]

### Operation Hours Restriction(s).

**# 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]**

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

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

(a) - (b) [Paragraphs (a) and (b) are printed under Recordkeeping Requirements in this section of the permit.]

(c) [Not applicable]

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

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

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

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

(ii) - (iii) [Reserved]

(3) [Not applicable to this facility.]

(e) Owners and operators of stationary SI natural gas fired engines may operate their engines using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, the owners and operators are required to conduct a performance test to demonstrate compliance with the emission standards of § 60.4233.

## SECTION E. Source Group Restrictions.

(f) [Paragraph (f) is printed under Testing Requirements in this section of the permit.]

(g) - (i) [Paragraphs (g) through (i) are not applicable.]

[73 FR 3591, Jan. 18, 2008, as amended at 76 FR 37974, June 28, 2011; 78 FR 6697, Jan. 30, 2013; 86 FR 34362, June 29, 2021; 87 FR 48606, Aug. 10, 2022]

### II. TESTING REQUIREMENTS.

**# 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]**

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

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

[From 60.4243(f)]

(f) If you are an owner or operator of a stationary SI internal combustion engine that is less than or equal to 500 HP and you purchase a non-certified engine or you do not operate and maintain your certified stationary SI internal combustion engine and control device according to the manufacturer's written emission-related instructions, you are required to perform initial performance testing as indicated in this section, but you are not required to conduct subsequent performance testing unless the stationary engine undergoes rebuild, major repair or maintenance. Engine rebuilding means to overhaul an engine or to otherwise perform extensive service on the engine (or on a portion of the engine or engine system). For the purpose of this paragraph (f), perform extensive service means to disassemble the engine (or portion of the engine or engine system), inspect and/or replace many of the parts, and reassemble the engine (or portion of the engine or engine system) in such a manner that significantly increases the service life of the resultant engine.

[73 FR 3591, Jan. 18, 2008, as amended at 76 FR 37974, June 28, 2011; 78 FR 6697, Jan. 30, 2013; 86 FR 34362, June 29, 2021; 87 FR 48606, Aug. 10, 2022]

### 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.

**# 006 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4243]**

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

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

(a) If you are an owner or operator of a stationary SI internal combustion engine that is manufactured after July 1, 2008, and must comply with the emission standards specified in § 60.4233(a) through (c), you must comply by purchasing an engine certified to the emission standards in § 60.4231(a) through (c), as applicable, for the same engine class and maximum engine power. In addition, you must meet one of the requirements specified in (a)(1) and (2) of this section.

(1) If you operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, you must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required if you are an owner or operator. You must also meet the requirements as specified in 40 CFR part 1068, subparts A through D, as they apply to you. If you adjust engine settings according to and consistent with the manufacturer's instructions, your stationary SI internal combustion engine will not be considered out of compliance.

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

(i) If you are an owner or operator of a stationary SI internal combustion engine less than 100 HP, you must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions, but no performance testing is required if you are an owner or operator.

**SECTION E. Source Group Restrictions.**

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

(iii) [Not applicable to engines < 500 hp.]

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

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

(2) Purchasing a non-certified engine and demonstrating compliance with the emission standards specified in § 60.4233(d) or (e) and according to the requirements specified in § 60.4244, as applicable, and according to paragraphs (b)(2)(i) and (ii) of this section.

(i) If you are an owner or operator of a stationary SI internal combustion engine greater than 25 HP and less than or equal to 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance.

(ii) [Not applicable to engines < 500 hp.]

(c) [Not applicable]

(d) [Paragraph (d) of the regulation is printed under Restrictions in this section of the permit.]

(e) Owners and operators of stationary SI natural gas fired engines may operate their engines using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, the owners and operators are required to conduct a performance test to demonstrate compliance with the emission standards of § 60.4233.

(f) [Paragraph (f) is printed under Testing Requirements in this section of the permit.]

(g) - (i) [Paragraphs (g) through (i) are not applicable.]

[73 FR 3591, Jan. 18, 2008, as amended at 76 FR 37974, June 28, 2011; 78 FR 6697, Jan. 30, 2013; 86 FR 34362, June 29, 2021; 87 FR 48606, Aug. 10, 2022]

**# 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4245]**

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

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

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

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

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

(2) Maintenance conducted on the engine.

(3) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the

## SECTION E. Source Group Restrictions.

engine is certified to meet the emission standards and information as required in 40 CFR parts 1048, 1054, and 1060, as applicable.

(4) If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to §60.4243(a)(2), documentation that the engine meets the emission standards.

(b) For all stationary SI emergency ICE greater than 25 HP and less than 130 HP manufactured on or after July 1, 2008, that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. [Non-applicable regulatory text pertaining to larger engines is omitted from this paragraph.]

(c) - (e) [Paragraphs (c) through (e) of the regulation are not applicable to this source.]

[73 FR 3591, Jan. 18, 2008, as amended at 73 FR 59177, Oct. 8, 2008; 78 FR 6697, Jan. 30, 2013; 81 FR 59809, Aug. 30, 2016; 86 FR 34362, June 29, 2021; 87 FR 48606, Aug. 10, 2022]

### 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.

**# 008 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4237]**

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

**What are the monitoring requirements if I am an owner or operator of an emergency stationary SI internal combustion engine?**

(a) Not applicable.

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

(c) If you are an owner or operator of an emergency stationary SI internal combustion engine that is less than 130 HP, was built on or after July 1, 2008, and does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter upon startup of your emergency engine.

[Source: 73 FR 3591, Jan. 18, 2008]

### VII. ADDITIONAL REQUIREMENTS.

**# 009 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.4246]**

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

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

Table 3 to this subpart shows which parts of the General Provisions in § §60.1 through 60.19 apply to you. [See regulation for Table 3 of 40 CFR Part 60 Subpart JJJJ. A copy of the regulation is available at this web address: https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-60/subpart-JJJJ/subject-group-ECFR071117cc3c671d8/section-60.4246]

[Source: 73 FR 3591, Jan. 18, 2008]

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

## SECTION E. Source Group Restrictions.

Group Name: 08 - ENGINES OLDER THAN 2007, 63-ZZZZ

Group Description: 40 CFR Part 63 Subpart ZZZZ for Existing Emergency Engines

Sources included in this group

| ID | Name |
|---|---|
| 130 | ENF 'EXISTING' EMERG ENGINES: 1 NAT GAS 20HP, 1 DIESEL 244HP |

### I. RESTRICTIONS.

### Operation Hours Restriction(s).

**# 001 [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 requiremer**

(a) [Paragraph 63.6640(a) is printed under WORK PRACTICE REQUIREMENTS in this section of permit.]

(b) - (d) [Paragraphs 63.6640(b) through (d) are not applicable to this source.]

(e) [Paragraph 63.6640(e) is printed under REPORTING REQUIREMENTS in this section of permit.]

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

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

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

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

(ii) [Reserved]

(iii) [Reserved]

(3) [Not applicable]

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

(i) [No longer applicable.]

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

## SECTION E. Source Group Restrictions.

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

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

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

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

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010; 78 FR 6704, Jan. 30, 2013; 87 FR 48607, Aug. 10, 2022]

### 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 63.6655]**

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

**What records must I keep?**

(a) - (c) [Paragraphs 63.6655(a) through (c) are not applicable to this source.]

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

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

(1) [Not applicable.]

(2) An existing stationary emergency RICE.

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

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

## SECTION E. Source Group Restrictions.

(1) [Paragraph 63.6655(f)(1) is not applicable to this source.]

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

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010; 75 FR 51592, Aug. 20, 2010; 78 FR 6700, Jan. 30, 2013]

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

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

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

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

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

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

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

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From 63.10(b)(1):

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

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

## V. REPORTING REQUIREMENTS.

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

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

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

(a) [Paragraph 63.6640(a) is printed under WORK PRACTICE REQUIREMENTS in this section of permit.]

(b) – (d) [Paragraphs 63.6640(b) through (d) of the regulation are not applicable to this source.]

(e) You must report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. [Non-applicable text in paragraph 63.6640(e) of the regulation is omitted from this paragraph.]

[Refer to regulation for Table 8 to 40 CFR Part 63 Subpart ZZZZ for General Subpart A Provisions applicable to subpart ZZZZ. Ongoing required Subpart A provisions for this source include:

• 63.6(e)(1)(i), the duty to minimize emissions as referenced in 63.6675 under the definition of 'Deviation' printed in the condition for 63.6675 under ADDITIONAL REQUIREMENTS in this source group; and

• 63.10(b)(1), the recordkeeping as referenced in 63.6660(b) printed in the condition for 63.6660 under RECORDKEEPING REQUIREMENTS in this source group.]

(f) [Paragraph 63.6640(f) is printed under RESTRICTIONS in this section of permit.]

## SECTION E. Source Group Restrictions.

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010; 78 FR 6704, Jan. 30, 2013; 87 FR 48607, Aug. 10, 2022]

### VI. WORK PRACTICE REQUIREMENTS.

**# 005 [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**

As stated in §§63.6603 and 63.6640, you must comply with the following requirements for existing stationary RICE located at area sources of HAP emissions:

[Categories 4 and 5 apply. Non-applicable text and non-applicable categories are omitted.]

4. For each Emergency stationary CI [Compression Ignition engine] RICE (See note 2.),

you must meet the following requirement, except during periods of startup . . .

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

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4. For each Emergency stationary SI [Spark Ignition engine] RICE (See note 2.),

you must meet the following requirement, except during periods of startup . . .

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

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Notes:
1 Sources have the option to utilize an oil analysis program as described in § 63.6625(i) in order to extend the specified oil change requirement in Table 2d of this subpart.

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

[78 FR 6700, Jan. 30, 2013]

**# 006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63 Subpart ZZZZ Table 6]**

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

## SECTION E. Source Group Restrictions.

**Table 6 to Subpart ZZZZ of Part 63.-- Continuous Compliance With Emission Limitations and Operating Limitations**

As stated in §63.6640, you must continuously comply with the emissions and operating limitations and work or management practices as required by the following:

[Category 9 of Table 6 to Part 63 Subpart ZZZZ applies. Applicable requirements from Table 6 are included here. Non-applicable text from Table 6 is omitted.]

For each existing emergency stationary RICE located at an area source of HAP, complying with the Work or Management practices requirement, you must demonstrate continuous compliance by . . .

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

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

[76 FR 12870, Mar. 9, 2011; 78 FR 6700, Jan. 30, 2013]

**# 007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6603]**

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

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

[References in regulation to §63.6620 and Table 4 in introductory text of §63.6603 is not applicable to this source and is omitted from this paragraph.]

(a) If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart that apply to you. [The reference in regulation to Table 2b in 63.6603(a) which is not applicable to this source is omitted from this paragraph.]

(b) - (f) [Paragraphs 63.6603 (b) through (f) are not applicable to this source.]

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

**# 008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6605]**

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

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

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

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

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

**# 009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6625]**

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

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

(a) - (d) [These paragraphs of the regulation are not applicable.]

**SECTION E. Source Group Restrictions.**

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

(1) - (2) [Not applicable];

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

(4) - (10) [Not applicable].

(f) If you own or operate an existing emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed. [Non-applicable text omitted from this paragraph.]

(g) [This paragraph of the regulation is not applicable].

(h) If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply. [Tables 1a, 2a, 2c do not apply to the emergency engine of this source; Category 4 of Table 2d applies.]

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

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

[69 FR 33506, June 15, 2004, as amended at 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010; 76 FR 12866, Mar. 9, 2011; 78 FR 6700, Jan. 30, 2013]

**# 010 [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**

## SECTION E. Source Group Restrictions.

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

(a) You must demonstrate continuous compliance with each requirement in Table 2d to this subpart that apply to you according to methods specified in Table 6 to this subpart. [Text in the regulation 63.6640(a) which is not applicable to this source is omitted from this paragraph.] [Tables 2d & 6 are printed in this section of permit.]

(b) - (d) [Paragraphs 63.6640(b) through (d) are not applicable to this source.]

(e) [Paragraph 63.6640(e) is printed under REPORTING REQUIREMENTS in this section of permit.]

(f) [Paragraph 63.6640(f) is printed under RESTRICTIONS in this section of permit.]

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010; 78 FR 6704, Jan. 30, 2013; 87 FR 48607, Aug. 10, 2022]

## VII. ADDITIONAL REQUIREMENTS.

**# 011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6665]**

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

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

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

[Refer to regulation for Table 8 to 40 CFR Part 63 Subpart ZZZZ. A copy of Table 8 is printed at this webpage: https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-ZZZZ/appendix-Table%208%20to%20Subpart%20ZZZZ%20of%20Part%2063.]

[75 FR 9678, Mar. 3, 2010]

**# 012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6675]**

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

**What definitions apply to this subpart?**

[Selected definitions from §63.6675 are printed below. Refer to regulation for remaining definitions applicable to 40 CFR Part 63 Subpart ZZZZ. A copy of the definitions is printed at this webpage: https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-63/subpart-ZZZZ/subject-group-ECFR2ac1fbcccc55831/section-63.6675.]

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

(1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation or operating limitation;
(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or
(3) Fails to meet any emission limitation or operating limitation in this subpart during malfunction, regardless or whether or not such failure is permitted by this subpart.
(4) Fails to satisfy the general duty to minimize emissions established by §63.6(e)(1)(i).

Emergency stationary RICE means any stationary reciprocating internal combustion engine that meets all of the criteria in paragraphs (1) through (3) of this definition. All emergency stationary RICE must comply with the requirements specified in § 63.6640(f) in order to be considered emergency stationary RICE. If the engine does not comply with the requirements specified in § 63.6640(f), then it is not considered to be an emergency stationary RICE under this subpart.

(1) The stationary RICE is operated to provide electrical power or mechanical work during an emergency situation. Examples include stationary RICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary RICE used to pump water in the case of fire or flood, etc.

**SECTION E. Source Group Restrictions.**

(2) The stationary RICE is operated under limited circumstances for situations not included in paragraph (1) of this definition, as specified in § 63.6640(f).

(3) The stationary RICE operates as part of a financial arrangement with another entity in situations not included in paragraph (1) of this definition only as allowed in § 63.6640(f)(2)(ii) or (iii) and § 63.6640(f)(4)(i) or (ii).

Subpart means 40 CFR part 63, subpart ZZZZ.

[Source: 69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3607, Jan. 18, 2008; 75 FR 9679, Mar. 3, 2010; 75 FR 51592, Aug. 20, 2010; 76 FR 12867, Mar. 9, 2011; 78 FR 6700, Jan. 30, 2013]

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

## SECTION E. Source Group Restrictions.

Group Name: 09 - PARTICULATE CONTROL

Group Description: State requirements for particulate matter sources

Sources included in this group

| ID | Name |
|---|---|
| 140 | ENF SPRAY BOOTH FOR SURFACE COATING |

### I. RESTRICTIONS.

### Emission Restriction(s).

**# 001 [25 Pa. Code §123.13]**

**Processes**

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

### 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 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall maintain a record of all preventive maintenance inspections of the control device. There records shall at a minimum contain the following information.

(1) dates of the inspections,
(2) name or employee ID of person performing the maintenance or inspection,
(3) any problems or defects,
(4) the actions taken to correct the problem or defects,
(5) any routine maintenance performed, and
(6) the pressure drop across the control device.

### 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.

**# 003 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

(a) The permittee shall perform a weekly preventive maintenance inspection of the control device during weeks that the source is operating.

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

(c) The permittee shall maintain and operate this source and the control device 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).

## SECTION E. Source Group Restrictions.

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

## SECTION E. Source Group Restrictions.

Group Name: 10 - TESTING REQUIREMENTS

Group Description: Updated source stack testing requirements with new due dates for protocols

Sources included in this group

| ID | Name |
|---|---|
| 101A | ENS 45T ELECTRIC ARC FURNACE |
| 114 | ENC CRANKSHAFT FILE AND GRIND PROCESS |
| 122 | ENS LADLE FURNACE |

### 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 §127.12b]**

**Plan approval terms and conditions.**

[The Continuous Source Monitoring Manual is PA DEP document number 274-0300-001. The Source Testing Manual is PA DEP document number 274-0300-002. Copies of each can be obtained at this web address: http://www.depgreenport.state.pa.us/elibrary/GetFolder?FolderID=4563 ]

[The Source Testing Manual is PA DEP document number 274-0300-002. A Copy can be obtained at this web address: http://www.depgreenport.state.pa.us/elibrary/GetFolder?FolderID=4563 ]

(a) At least 90 calendar days prior to commencing an emissions testing program, a test protocol shall be submitted to the Department for review and approval in accordance with paragraph (i) of this condition. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(b) When testing of a source is required on a recurring basis, a single procedural protocol may be submitted for approval; thereafter, a letter, submitted at least 90 calendar days prior to commencing an emissions testing program, referencing the previously approved procedural protocol is sufficient if the letter is approved by the Department. The letter shall be submitted as required in paragraph (a). If modifications are made to the process(es), if a different stack testing company is used, or if an applicable section of the stack test manual has been revised since the approval, a new protocol shall be submitted for approval.

(c) Pursuant to 25 Pa. Code §§ 139.53(a)(1) and 139.53(a)(3):

(1) Submittals pertaining to emissions testing, specifically test protocols and test reports, shall be made by emailing electronic copies submissions to both PSIMS Administration in Central Office and to the Regional Office AQ Program at the following e-mail addresses:

CENTRAL OFFICE:
RA-EPstacktesting@pa.gov

NORTHWEST REGIONAL OFFICE:
RA-EPNWstacktesting@pa.gov

(2) The notifications of emissions testing dates shall be submitted directly to:
(i) the DEP's OnBase electronic upload website where it will be forwarded to the Northwest Regional Office Air Quality Inspector. Upload the written notification at this web address:
https://www.dep.pa.gov/DataandTools/Pages/Application-Form-Upload.aspx
(ii) IF the Protocol Reviewer at Central Office Division of Source Testing requested a copy of the notification, then submit a copy to the email address provided by the protocol reviewer.

(d) At least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the Department in accordance with paragraph (c) of this condition. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

(e) If the proposed testing did not occur per the required notification in paragraph (d) above, an electronic notification shall

## SECTION E. Source Group Restrictions.

be sent within 15 calendar days after the expected completion date of the onsite testing to the Department, in accordance with paragraph (c) of this condition, indicating why the proposed completion date of the on-site testing was not adhered to.

(f) A complete test report shall be submitted to the Department no later than 60 calendar days after completion of the onsite testing portion of an emission test program.

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

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

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

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

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

(h) Pursuant to 25 Pa. Code § 139.3, all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

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

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

(k) Actions Related to Noncompliance Demonstrated by a Stack Test:

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

(2) If the results of the required stack test exceed any limit defined in this permit, the test was not performed in accordance with the stack test protocol or the source and/or air cleaning device was not operated in accordance with the plan approval, then another stack test shall be performed to determine compliance. Within 120 days of the Permittee receiving the original stack test results, a retest shall be performed. The Department may extend the retesting deadline if the Permittee demonstrates, to the Department's satisfaction, that retesting within 120 days is not practicable. Failure of the second test to demonstrate compliance with the limits in the permit, not performing the test in accordance with the stack test protocol or not operating the source and/or air cleaning device in accordance with the plan approval may be grounds for immediate revocation of the plan approval to operate the affected source.

[This testing condition is derived from the following plan approvals as modified with the 2023 Title V operating permit renewal to reflect the change to electronic submissions of all documents to the Department.
- 62-032B and 62-032F for the EAF of Source 101A and Ladle Furnace Source 122; and
- 62-032P for Source 114, the ENC Crankshaft File & Grind Process.]

## 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).

### 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 F. Alternative Operation Requirements.

No Alternative Operations exist for this Title V facility.

## SECTION G. Emission Restriction Summary.

| Source Id | Source Description |
|---|---|
| 033 | ENX NATURAL GAS SPACE HEATERS |

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 1.800 | Tons/Yr | Based on a 12-month rolling total [Plan approval 62-032O] | CO |
| 40.000 | Lbs/MMCF | [Plan approval 62-032O] | CO |
| 4.230 | Tons/Yr | Based on a 12-month rolling total [Plan approval 62-032O] | NOX |
| 94.000 | Lbs/MMCF | [Plan approval 62-032O] | NOX |
| 0.342 | Tons/Yr | Based on a 12-month rolling total [Plan approval 62-032O] | PM10 |
| 7.600 | Lbs/MMCF | [Plan approval 62-032O] | PM10 |
| 0.027 | Tons/Yr | Based on a 12-month rolling total [Plan approval 62-032O] | SOX |
| 0.600 | Lbs/MMCF | [Plan approval 62-032O] | SOX |
| 0.248 | Tons/Yr | Based on a 12-month rolling total [Plan approval 62-032O] | VOC |
| 5.500 | Lbs/MMCF | [Plan approval 62-032O] | VOC |

| | |
|---|---|
| 034 | ENF MIURA PACKAGE HEATING GAS BOILERS(2@11.8 MM BTU/HR EACH) |

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 2.730 | Tons/Yr | Based on a 12-month rolling total [Plan Approval 62-032H] | CO |
| 84.000 | Lbs/MMCF | [Plan Approval 62-032H] | CO |
| 1.630 | Tons/Yr | Based on a 12-month rolling total [Plan Approval 62-032H] | NOX |
| 50.000 | Lbs/MMCF | [Plan Approval 62-032H] | NOX |
| 0.250 | Tons/Yr | Based on a 12-month rolling total [Plan Approval 62-032H] | PM10 |
| 7.600 | Lbs/MMCF | [Plan Approval 62-032H] | PM10 |
| 0.020 | Tons/Yr | Based on a 12-month rolling total [Plan Approval 62-032H] | SOX |
| 0.600 | Lbs/MMCF | [Plan Approval 62-032H] | SOX |
| 0.180 | Tons/Yr | Based on a 12-month rolling total [Plan Approval 62-032H] | VOC |
| 5.500 | Lbs/MMCF | [Plan Approval 62-032H] | VOC |

| | |
|---|---|
| 038 | ENF MIURA NATURAL GAS BOILER #3 EQUIPMENT #976(11.5MMBTU/HR) |

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 2.340 | Tons/Yr | Based on a 12-month rolling total for Source 038 & Source 039 combined [Plan approval 62-032O] | CO |
| 75.000 | Lbs/MMCF | for Source 038 & Source 039 combined [Plan approval 62-032O] | CO |
| 0.750 | Tons/Yr | Based on a 12-month rolling total for Source 038 & Source 039 combined [Plan approval 62-032O] | NOX |
| 24.000 | Lbs/MMCF | for Source 038 & Source 039 combined [Plan approval 62-032O] | NOX |
| 0.237 | Tons/Yr | Based on a 12-month rolling total for Source 038 & Source 039 combined [Plan approval 62-032O] | PM10 |
| 7.300 | Lbs/MMCF | for Source 038 & Source 039 combined [Plan | PM10 |

## SECTION G. Emission Restriction Summary.

| Source Id | Source Description |
|---|---|

| | | | |
|---|---|---|---|
| | | approval 62-032O] | |
| 0.176 | Tons/Yr | Based on a 12-month rolling total for Source 038 & Source 039 combined [Plan approval 62-032O] | SOX |
| 5.400 | Lbs/MMCF | for Source 038 & Source 039 combined [Plan approval 62-032O] | SOX |
| 0.172 | Tons/Yr | Based on a 12-month rolling total for Source 038 & Source 039 combined [Plan approval 62-032O] | VOC |
| 5.300 | Lbs/MMCF | for Source 038 & Source 039 combined [Plan approval 62-032O] | VOC |

040 ENS WEISHAUPT NATURAL GAS BOILER (29.6 MMBTU/HR)

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 300.000 | PPMV | dry @ 3% O2 [GP-1-62-032A] | CO |
| 0.300 | Tons/Yr | [derived from 62-032J application] | NOX |
| 30.000 | PPMV | dry @ 3% O2 [GP-1-62-032A] | NOX |
| 36.400 | Lbs/MMCF | [derived from 62-032J application] | NOX |

1000 ENS VACUUM OXYGEN DECARBURIZATION (VOD)

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 28.000 | Tons/Yr | based on a 12-month rolling total [Plan Approval 62-032M] | CO |
| 0.750 | Tons/Yr | based on a 12-month rolling total [Plan Approval 62-032M] | NOX |
| 3.750 | Tons/Yr | based on a 12-month rolling total [Plan Approval 62-032M] | PM10 |
| 0.005 | Tons/Yr | based on a 12-month rolling total [Plan Approval 62-032M] | SOX |
| 0.045 | Tons/Yr | based on a 12-month rolling total [Plan Approval 62-032M] | VOC |

1001 ENS 2ND HORIZONTAL PREHEATER

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 4.400 | Tons/Yr | based on a 12-month rolling total [Plan Approval 62-032I] | CO |
| 5.300 | Tons/Yr | based on a 12-month rolling total [Plan Approval 62-032I] | NOX |
| 0.400 | Tons/Yr | based on a 12-month rolling total [Plan Approval 62-032I] | PM10 |
| 0.032 | Tons/Yr | based on a 12-month rolling total [Plan Approval 62-032I] | SOX |
| 0.040 | gr/DRY FT3 | [25 Pa Code 123.13] | TSP |
| 0.290 | Tons/Yr | based on a 12-month rolling total [Plan Approval 62-032I] | VOC |

101A ENS 45T ELECTRIC ARC FURNACE

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 5.080 | Tons/Yr | Combined for oxyfuel preheater, horizontal preheater, and vertical dryer, 12 mo rolling | CO |

## SECTION G. Emission Restriction Summary.

| Source Id | Source Description |
|---|---|

| | | | |
|---|---|---|---|
| | | total [Plan approval 62-032F] | |
| 6.000 | Lbs/Tons | steel melted [Plan approval 62-032F] | CO |
| 84.000 | Lbs/MMCF | Combined for oxyfuel preheater, horizontal preheater, and vertical dryer [Plan approval 62-032F] | CO |
| 450.000 | Tons/Yr | Based on a 12-month rolling total [Plan approval 62-032F] | CO |
| 0.380 | Lbs/Tons | steel melted [Plan approval 62-032F] | NOX |
| 6.050 | Tons/Yr | Combined for oxyfuel preheater, horizontal preheater, and vertical dryer, 12 mo rolling total [Plan approval 62-032F] | NOX |
| 28.500 | Tons/Yr | Based on a 12-month rolling total [Plan approval 62-032F] | NOX |
| 100.000 | Lbs/MMCF | Combined for oxyfuel preheater, horizontal preheater, and vertical dryer [Plan approval 62-032F] | NOX |
| 0.005 | gr/DRY FT3 | [Plan approval 62-032F] | PM10 |
| 0.110 | Lbs/Tons | steel melted [Plan approval 62-032F] | PM10 |
| 0.460 | Tons/Yr | Combined for oxyfuel preheater, horizontal preheater, and vertical dryer, 12 mo rolling total [Plan approval 62-032F] | PM10 |
| 7.600 | Lbs/MMCF | Combined for oxyfuel preheater, horizontal preheater, and vertical dryer [Plan approval 62-032F] | PM10 |
| 8.300 | Tons/Yr | Based on a 12-month rolling total [Plan approval 62-032F] | PM10 |
| 0.040 | Tons/Yr | Combined for oxyfuel preheater, horizontal preheater, and vertical dryer, 12 mo rolling total [Plan approval 62-032F] | SOX |
| 0.550 | Lbs/Tons | steel melted [Plan approval 62-032F] | SOX |
| 0.600 | Lbs/MMCF | Combined for oxyfuel preheater, horizontal preheater, and vertical dryer [Plan approval 62-032F] | SOX |
| 41.300 | Tons/Yr | Based on a 12-month rolling total [Plan approval 62-032F] | SOX |
| 0.005 | gr/DRY FT3 | 40 CFR Part 60 Subpart AAa | TSP |
| 12.000 | mg/DSCM | 40 CFR Part 60 Subpart AAa | TSP |
| 0.280 | Lbs/Tons | steel melted [Plan approval 62-032F] | VOC |
| 0.330 | Tons/Yr | Combined for oxyfuel preheater, horizontal preheater, and vertical dryer, 12 mo rolling total [Plan approval 62-032F] | VOC |
| 5.500 | Lbs/MMCF | Combined for oxyfuel preheater, horizontal preheater, and vertical dryer [Plan approval 62-032F] | VOC |
| 20.600 | Tons/Yr | Based on a 12-month rolling total [Plan approval 62-032F] | VOC |

103 ENS ANNEALING FURNACES #2, #3 & #4 (3)

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 5.880 | Tons/Yr | Based on a 12-month rolling total [Plan Approval 62-032D] | CO |

## SECTION G. Emission Restriction Summary.

| Source Id | Source Description |
|---|---|

| | | | |
|---|---|---|---|
| 84.000 | Lbs/MMCF | [Plan approval 62-032B] | CO |
| 9.800 | Tons/Yr | Based on a 12-month rolling total [Plan Approval 62-032D] | NOX |
| 140.000 | Lbs/MMCF | [Plan approval 62-032B] | NOX |
| 0.530 | Tons/Yr | Based on a 12-month rolling total [Plan Approval 62-032D] | PM10 |
| 7.600 | Lbs/MMCF | [Plan approval 62-032B] | PM10 |
| 0.040 | Tons/Yr | Based on a 12-month rolling total [Plan Approval 62-032D] | SOX |
| 0.600 | Lbs/MMCF | [Plan approval 62-032B] | SOX |
| 0.040 | gr/DRY FT3 | [25 Pa Cod 123.13] | TSP |
| 0.390 | Tons/Yr | Based on a 12-month rolling total [Plan Approval 62-032D] | VOC |
| 5.500 | Lbs/MMCF | [Plan approval 62-032B] | VOC |

111 ENF HEAT TREAT FURNACES (13)

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 6.510 | Tons/Yr | Based on a 12-month rolling total (natural gas) [Plan Approval 62-032H] | CO |
| 84.000 | Lbs/MMCF | natural gas [Plan Approval 62-032H] | CO |
| 8.100 | Tons/Yr | Based on a 12-month rolling total (natural gas) for Furnaces 382 & 605 [Plan Approval 62-032K] | NOX |
| 10.850 | Tons/Yr | Based on a 12-month rolling total (natural gas) for all Furnaces [Plan Approvals 62-032H & 62-032K] | NOX |
| 100.000 | Lbs/MMCF | natural gas for Furnaces 382, 605, 679, 682, and 464 [Plan Approval 62-032K] | NOX |
| 140.000 | Lbs/MMCF | natural gas except for Furnaces 382, 605, 679, 682, and 464 [Plan Approval 62-032H] | NOX |
| 0.590 | Tons/Yr | Based on a 12-month rolling total (natural gas) [Plan Approval 62-032H] | PM10 |
| 7.600 | Lbs/MMCF | natural gas [Plan Approval 62-032H] | PM10 |
| 0.050 | Tons/Yr | Based on a 12-month rolling total (natural gas) [Plan Approval 62-032H] | SOX |
| 0.600 | Lbs/MMCF | natural gas [Plan Approval 62-032H] | SOX |
| 0.430 | Tons/Yr | Based on a 12-month rolling total (natural gas) [Plan Approval 62-032H] | VOC |
| 5.500 | Lbs/MMCF | natural gas [Plan Approval 62-032H] | VOC |

112 ENC HEAT TREAT FURNACES (7 HORIZONTAL; 2 OTHER)

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 9.660 | Tons/Yr | Based on a 12-month rolling total [Plan approval 62-032O] | CO |
| 84.000 | Lbs/MMCF | [Plan approval 62-032O] | CO |
| 16.100 | Tons/Yr | Based on a 12-month rolling total [Plan approval 62-032O] | NOX |
| 140.000 | Lbs/MMCF | [Plan approval 62-032O] | NOX |
| 0.874 | Tons/Yr | Based on a 12-month rolling total [Plan approval 62-032O] | PM10 |

## SECTION G. Emission Restriction Summary.

| Source Id | Source Description |
|---|---|

| | | | |
|---|---|---|---|
| 7.600 | Lbs/MMCF | [Plan approval 62-032O] | PM10 |
| 0.080 | Tons/Yr | Based on a 12-month rolling total [Plan approval 62-032O] | SOX |
| 0.600 | Lbs/MMCF | [Plan approval 62-032O] | SOX |
| 0.633 | Tons/Yr | Based on a 12-month rolling total [Plan approval 62-032O] | VOC |
| 5.500 | Lbs/MMCF | [Plan approval 62-032O] | VOC |

114 ENC CRANKSHAFT FILE AND GRIND PROCESS

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 0.043 | Lbs/Hr | [Plan Approval 62-032P] | PM10 |
| 0.190 | Tons/Yr | Based on a 12-month rolling total [Plan Approval 62-032P] | PM10 |
| 0.043 | Lbs/Hr | [Plan Approval 62-032P] | PM2.5 |
| 0.190 | Tons/Yr | Based on a 12-month rolling total [Plan Approval 62-032P] | PM2.5 |
| 0.000 | gr/DRY FT3 | 0.0002 gr/dscf [Plan Approval 62-032P] | TSP |
| 0.043 | Lbs/Hr | [Plan Approval 62-032P] | TSP |
| 0.190 | Tons/Yr | Based on a 12-month rolling total [Plan Approval 62-032P] | TSP |

115 ENS VACUUM DEGASSER

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 0.020 | Lbs/Tons | steel [Plan approvals 62-032B & 62-032F] | PM10 |
| 1.500 | Tons/Yr | based on a 12 month rolling total [Plan approvals 62-032B & 62-032F] | PM10 |

116 ENS TEEMING

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 0.021 | Lbs/Tons | steel [Plan approvals 62-032B & 62-032F] | PM10 |
| 1.600 | Tons/Yr | based on a 12-month rolling total [Plan approvals 62-032B & 62-032F] | PM10 |

117 ENS SCRAP HANDLING

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 0.025 | Lbs/Tons | scrap handled [Plan approvals 62-032B & 62-032F] | PM10 |
| 2.060 | Tons/Yr | Based on a 12-month rolling total [Plan approvals 62-032B & 62-032F] | PM10 |

118 ENS SLAG HANDLING

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 0.015 | Lbs/Tons | slag [Plan approvals 62-032B & 62-032F] | PM10 |
| 0.130 | Tons/Yr | based on a 12-month rolling total [Plan approvals 62-032B & 62-032F] | PM10 |

## SECTION G. Emission Restriction Summary.

| Source Id | Source Description |
|---|---|
| 121 | ENC CRANKSHAFT DEGREASING |

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 7.600 | Lb/Gal | | VOC |
| 9.500 | Tons/Yr | Based on a 12-month rolling total. | VOC |

| Source Id | Source Description |
|---|---|
| 122 | ENS LADLE FURNACE |

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 0.004 | gr/DRY FT3 | [Plan approvals 62-032B and 62-032F] | PM10 |
| 0.020 | Lbs/Tons | steel processed [Plan approvals 62-032B and 62-032F] | PM10 |
| 1.500 | Tons/Yr | Based on a 12-month rolling total [Plan approvals 62-032B and 62-032F] | PM10 |

| Source Id | Source Description |
|---|---|
| 127 | ENS PIPE MOLD CLEANING MACHINE |

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 0.040 | gr/DRY FT3 | [25 Pa Code 123.13] | TSP |

| Source Id | Source Description |
|---|---|
| 129 | ENF/ENC 'NEW' NAT GAS FUELED EMERG GENERATORS (7) 5KW-125 KW |

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 4.000 | GRAMS/HP-Hr | hp>=130 [40 CFR Part 60 Subpart JJJJ Table 1] | CO |
| 387.000 | GRAMS/HP-Hr | 25<hp<130 [40 CFR Part 60 Subpart JJJJ Table 1] | CO |
| 540.000 | PPMV | at 15% O2 dry basis hp>=130 [40 CFR Part 60 Subpart JJJJ Table 1] | CO |
| 2.000 | GRAMS/HP-Hr | hp>=130 [40 CFR Part 60 Subpart JJJJ Table 1] | NOX |
| 160.000 | PPMV | at 15% O2 dry basis hp>=130 [40 CFR Part 60 Subpart JJJJ Table 1] | NOX |
| 2.000 | GRAMS/HP-Hr | 25<hp<130 [40 CFR Part 60 Subpart JJJJ Table 1] | NOx+NMHC |
| 500.000 | PPMV | dry basis [25 Pa Code 123.21] | SOX |
| 0.040 | gr/DRY FT3 | [25 Pa Code 123.13] | TSP |
| 1.000 | GRAMS/HP-Hr | hp>=130 [40 CFR Part 60 Subpart JJJJ Table 1] | VOC |
| 86.000 | PPMV | at 15% O2 dry basis hp>=130 [40 CFR Part 60 Subpart JJJJ Table 1] | VOC |

| Source Id | Source Description |
|---|---|
| 130 | ENF 'EXISTING' EMERG ENGINES: 1 NAT GAS 20HP, 1 DIESEL 244HP |

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 500.000 | PPMV | dry basis [25 Pa Code 123.21] | SOX |
| 0.040 | gr/DRY FT3 | [25 Pa Code 123.13] | TSP |

| Source Id | Source Description |
|---|---|
| 131 | ENF CUMMINS NAT GAS EMER GEN 42KW 56HP INSTALLED 8/23/2006 |

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 500.000 | PPMV | dry basis [25 Pa Code 123.21] | SOX |
| 0.040 | gr/DRY FT3 | [25 Pa Code 123.13] | TSP |

## SECTION G. Emission Restriction Summary.

| Source Id | Source Description |
|---|---|
| 140 | ENF SPRAY BOOTH FOR SURFACE COATING |

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 0.040 | gr/DRY FT3 | [25 Pa Code 123.13] | TSP |

631 ENC NITRIDE FURNACE

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 0.570 | Lbs/Hr | per furnace [Plan approval 62-032G] | Ammonia |
| 10.000 | Tons/Yr | based on a consecutive 12-month period for all five nitride furnaces ( 631,632, 633, 634, & 635) [Plan approval 62-032G] | Ammonia |
| 3.000 | Tons/Yr | based on a consecutive 12-month period for all five nitride furnaces (631,632, 633, 634, & 635) [Plan approval 62-032G] | NOX |
| 0.020 | gr/DRY FT3 | [Plan approval 62-032C] | TSP |

632 ENC NITRIDE FURNACE

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 0.570 | Lbs/Hr | per furnace [Plan approval 62-032G] | Ammonia |
| 10.000 | Tons/Yr | based on a consecutive 12-month period for all five nitride furnaces ( 631,632, 633, 634, & 635) [Plan approval 62-032G] | Ammonia |
| 3.000 | Tons/Yr | based on a consecutive 12-month period for all five nitride furnaces (631,632, 633, 634, & 635) [Plan approval 62-032G] | NOX |
| 0.020 | gr/DRY FT3 | [Plan approval 62-032C] | TSP |

633 ENC NITRIDE FURNACE

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 0.570 | Lbs/Hr | per furnace [Plan approval 62-032G] | Ammonia |
| 10.000 | Tons/Yr | based on a consecutive 12-month period for all five nitride furnaces ( 631,632, 633, 634, & 635) [Plan approval 62-032G] | Ammonia |
| 3.000 | Tons/Yr | based on a consecutive 12-month period for all five nitride furnaces (631,632, 633, 634, & 635) [Plan approval 62-032G] | NOX |
| 0.020 | gr/DRY FT3 | [Plan approval 62-032C] | TSP |

634 ENC NITRIDE FURNACE

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 0.570 | Lbs/Hr | per furnace [Plan approval 62-032G] | Ammonia |
| 10.000 | Tons/Yr | based on a consecutive 12-month period for all five nitride furnaces ( 631,632, 633, 634, & 635) [Plan approval 62-032G] | Ammonia |
| 3.000 | Tons/Yr | based on a consecutive 12-month period for all five nitride furnaces (631,632, 633, 634, & 635) [Plan approval 62-032G] | NOX |
| 0.020 | gr/DRY FT3 | [Plan approval 62-032C] | TSP |

## SECTION G. Emission Restriction Summary.

| Source Id | Source Description |
|---|---|
| 635 | ENC NITRIDE FURNACE |

| Emission Limit | | | Pollutant |
|---|---|---|---|
| 0.570 | Lbs/Hr | per furnace [Plan approval 62-032G] | Ammonia |
| 10.000 | Tons/Yr | based on a consecutive 12-month period for all five nitride furnaces ( 631,632, 633, 634, & 635) [Plan approval 62-032G] | Ammonia |
| 3.000 | Tons/Yr | based on a consecutive 12-month period for all five nitride furnaces (631,632, 633, 634, & 635) [Plan approval 62-032G] | NOX |
| 0.020 | gr/DRY FT3 | [Plan approval 62-032C] | TSP |

**Site Emission Restriction Summary**

| Emission Limit | Pollutant |
|---|---|

## SECTION H. Miscellaneous.

I. GENERAL INFORMATION

(a) This facility is located at 1 Front Street, Irvine, PA 16329.

This Title V operating permit for Ellwood National Forge consists of processes and equipment for the following 3 companies located on the same site.

(1) Ellwood National Forge (ENF),
(2) Ellwood National Crankshaft (ENC), and
(3) Ellwood National Steel (ENS).
(4) Equipment listed in this permit which is shared by all 3 companies is noted with the abbreviation (ENX).

This facility is a TITLE V facility and is a MAJOR SOURCE for its Potential to Emit Carbon Monoxide in quantities > 100 tpy.

The following eFACTS ID's are assigned to this facility for this permit issuance:
Permit number: 62-00032
Records Management System (RMS) Facility Name: Ellwood Natl Forge
RMS ID: 53900
APS ID: 482941
Master Auth ID: 353884
Client ID: 208903
Site ID: 614967
Primary Facility (PF) ID: 557075

(b) The Capacity/Throughput numbers listed in Section A, the Site Inventory List, and provided in Section D of this permit for individual sources are for informational purposes only and are not to be considered enforceable limits. The actual enforceable emission and operating limits for each source, with the correct number of significant digits, are listed in Sections C, D, and E of this permit. The Emission Restriction Summary in Section G of this permit is for information purposes only and is not to be used to establish enforceable limits.

(c) Abbreviations used in this permit:

Schematics:
FML: Fuel material location
CU: Combustion Unit
PROC: Process
CNTL: Control device
STAC: Stack. The stack can represent either the emission point or fugitive emissions in a permit map.

Pollutants:
CO: Carbon Monoxide
NOx: Nitrogen Oxides
SOx: Sulfur Oxides
TSP: Total Suspended Particulate (includes both filterable and condensable)
PM10: Particulate Matter less than 10 microns
PM2.5: Particulate Matter less than 2.5 microns
VOC: Volatile Organic Compounds
HAP: Hazardous Air Pollutant

Source ID: Department assigned ID number for the source
Source Name: Department assigned name for the source
Capacity/Throughput: The maximum rated capacity or throughput for the source. The maximum rated capacity or throughput is not considered an enforceable limit. Enforceable limits are contained within the conditions of the permit.
Fuel/Material: The fuel/material assigned to SCC for the source

AIMS: Air Information Management System -- the DEP electronic database for permitting and emission reports
CAM: Compliance Assurance Monitoring (40 CFR Part 64)
CFR: Code of Federal Regulations
CI: Combustion Ignition
CMS: Continuous Monitoring System
Department: Pennsylvania Department of Environmental Protection (the DEP)

## SECTION H. Miscellaneous.

EAF: Electric arc furnace
eFacts: Environmental Facility Application Compliance Tracking System -- the DEP electronic database for inspection reports
ENC: Ellwood National Crankshaft
ENF: Ellwood National Forge
ENS: Ellwood National Steel
ICE: Internal Combustion Engine
ICI: Industrial, Commercial, and Institutional
MMBTU: million Btu
MMCF: million cubic feet
NESHAP: National Emission Standards for Hazardous Air Pollutants (40 CFR Part 63)
NSPS: New Source Performance Standards (40 CFR Part 60)
NWRO: Northwest Regional Office of PA DEP
RACT I: The Reasonably Available Control Technology requirements of 25 Pa. Code §§ 129.93 through 129.95 promulgated on January 14, 1994, for control of NOx and VOC.
RACT II: The Reasonably Available Control Technology requirements of 25 Pa. Code §§ 129.96 through 129.100 promulgated on April 23, 2016 for control of NOx and VOC.
RFD: Request for Determination of Changes of Minor Significance & Exemption from plan approval.
RICE: Reciprocating Internal Combustion Engine
SCC: Source Classification Code as defined by EPA
SI: Spark Ignition
SIP: State Implementation Plan (40 CFR Part 52 Subpart NN)
Source: An air contamination source (25 Pa. Code § 121.1).
VOD: Vacuum Oxygen Decarburization

(d) All reports, submittals, and other communications required by this permit shall be submitted electronically to the PA DEP Northwest Regional office located at the following address. Web addresses for electronic submittals to this office are below.

Bureau of Air Quality
Department of Environmental Protection
230 Chestnut Street
Meadville, PA 16335
814-332-6940 (phone)
814-332-6121 (fax)
Office Hours 8 a.m. - 4 p.m.
800-541-2050 (after hours)

(i) Spills and other emergencies should be reported immediately to DEP by telephone at 800-541-2050.

(ii) Submittals of Asbestos Abatements and Demolition/Renovation Notification Forms should be made via the Online Asbestos Notification System. Information and links are located at this web address:

https://www.dep.pa.gov/Business/Air/BAQ/BusinessTopics/Pages/Asbestos.aspx

(iii) Submittals of Annual emissions inventory, if required, must be made via the DEP's AES*Online secure website. Information and links are located at this web address:

https://www.dep.pa.gov/Business/Air/BAQ/BusinessTopics/Emission/Pages/default.aspx

(iv) Submittals pertaining to emissions testing, specifically test protocols and test reports, shall be made by emailing electronic copies submissions to both PSIMS Administration in Central Office and to Regional Office AQ Program at the following e-mail addresses:

CENTRAL OFFICE:
RA-EPstacktesting@pa.gov

NORTHWEST REGIONAL OFFICE:
RA-EPNWstacktesting@pa.gov

(v) The 15-day advance notifications of emissions testing dates and supplemental testing information shall be submitted

## SECTION H. Miscellaneous.

directly to:

(1) the DEP's OnBase electronic upload website where it will be forwarded to the Northwest Regional Office Air Quality Inspector. Upload the written notification at this web address:
https://www.dep.pa.gov/DataandTools/Pages/Application-Form-Upload.aspx

(2) IF the Protocol Reviewer at Central Office Division of Source Testing requested a copy of the notification, then submit a copy to the email address provided by the protocol reviewer.

(vi) Submittals of RFD's shall be made via the DEP's Greenport website at https://greenport.pa.gov

(vii) All other submittals to this office should be made via the DEP's OnBase electronic upload website at this web address:

https://www.dep.pa.gov/DataandTools/Pages/Application-Form-Upload.aspx

(e) Submittals to the EPA are made to the EPA Region III office.

(1) The regional EPA address is:

Section Chief
U.S. Environmental Protection Agency Region III
Enforcement and Compliance Assurance Division
Air Section (3ED21)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, Pennsylvania 19103-2852

(2) Electronic compliance certifications should be sent to the EPA at the following email address. Include the following in the email subject line: name of facility, state, and Title V operating permit number.

R3_APD_Permits@epa.gov

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II. INFORMATION SPECIFIC TO THIS PERMIT

(a) The following sources/activities have been determined to be of minor significance with respect to emissions of regulated air pollutants and have no applicable emission, testing, monitoring, recordkeeping, or reporting requirements.

(1) Ladle Heaters
(2) Oil Burning Furnace
(3) Hot Water Washer
(4) Natural gas fired torch cutting operation
(5) Mold Grinder with control device that exhausts inside the facility. (located at ENS)

(b) This permit was administratively amended on May 9, 2003 to account for a change in ownership from National Forge Company to Ellwood National Forge Company.

(c) This permit was administratively amended on June 3, 2004 to incorporate the newly applicable requirements from Plan Approval Number 62032A.

(d) [Reserved] [This paragraph which described Source 111 is superceded by paragraph (y) below.]

(e) Source 112, ENC Heat Treat consists of the following gas-fired furnaces.

- [all gas fired vertical Furnaces (756, 757, 758, 759, & 760) were taken out of service.];
- 7 gas fired horizontal, car bottom, (740, 741, 742, 750, 751, 752, & 753);
- The twister furnace # 775 (1.9 MMBTU) which is only used 100 to 400 hours per year;
- Die Weld Furnace (Not production) (0.75 MMBTU);
- 7 million Btu/hr Tempering Furnace was added to this source with a RFD approved on 8/31/2012;

[Source ID #112 originally consisted of 3 verticals (756, 757, and 758) and 7 horizontals (740, 741, 742, 750, 751, 752, and 753).]

(f) Source 103, ENS Annealing Furnaces, consists of 3 natural gas fired Horizontal Furnaces, #2, #3 and # 4. Furnace 1 has been removed.

## SECTION H. Miscellaneous.

(g) [Reserved]

(h) [Reserved]

(i) [Reserved] [This paragraph previously described Source 112 and was contradictory to the description of Source 112 in paragraph (e).]

(j) [Reserved] [This paragraph previously described Source 103 and was identical to the description of Source 103 in paragraph (f).]

(k) Boiler & space heater information:

(1) Source 032, the Union boiler, was taken out of service, but the Union boiler stack S02 remains and the 3 boilers of Sources 034 and 038 now exhaust to that stack.

(2) Source 033, Natural gas Space Heaters, consists of the following:

(i) ENS: 1 Heater @ 1.5MMBTU

(ii) ENC: 2 Heaters @ 4.5 MMBTU

(iii) ENC: 2 Heaters @ 9.7 MMBTU

(iv) ENF: All space/comfort heaters are <1 MMBTU

(3) Source 034, Package heating boilers, consists of 2 Miura boilers rated at 11.8 MMBTU/hr each. These 2 boilers exhaust to the same stack as Source 038.

(4) Source 035, the degasser boiler, was taken out of sevice and replaced by a new degasser boiler of Source 040.

(5) Source 038, the 11.5 million Btu/hr Miura Package boiler, was originally authorized under General Plan Approval GP1-62-032C issued on Nov. 22, 2019. The conditions for Source 038 were modified with the Feb. 26, 2020, issuance of Plan Approval 62-032O. Source 038 (along with the 2 Miura Package boilers of Source 034) exhasts to stack S02 the Union Iron Boiler stack which was previously used for Source 032.

(6) Source 039, a second 11.5 million Btu/hr Miura Package boiler was also authorized by plan approval 62-032O, but it was never installed.

(7) Source 040, Weishaupt Degasser Boiler, rated at 29.6 million Btu/hr, was installed under GP1-62-032A, issued on Feb. 26, 2013, to replace the previous degasser boiler of Source 035. The stack S15 which was used by source 035 remained and is now used by Source 040.

(l) Source 101A (EAF) consists of the electric arc furnace, a vertical dryer, a horizontal preheater and an oxyfuel preheater.

- The Vertical dryer utilizes a natural gas burner rated at 1 million Btu/hr to remove moisture from newly lined ladles.
- The oxyfuel preheater is a combination natural gas and oxygen burner rated at 1 million Btu/hr to raise the temperature of the ladle refractory to approximately 2,300F prior to tapping molten steel from the EAF (to minimize thermal shock from 3,000F liquid steel).
- The horizontal preheater is an air / fuel burner rated at 6 million Btu/hr.

(m) This Permit was administratively amended on July 7, 2010 to include the conditions from plan approval 62-032F and 62-032D. Plan Approval 62-032F superceded both plan approvals 62-032E and 62-032B.

(n) This Permit was administratively amended on June 21, 2011 to incorporate the conditions from plan approval 62-032G. Initial testing of the Nitride Furnace was completed on November 2, 2010. Subsequent testing will occur 12-18 months prior to the next permit expiration (approximate expiration of March 31, 2017).

(o) [Reserved]

(p) This permit was renewed on August 1, 2012. The renewal included an administrative amendment to incorporate the provisions of plan approval 62-032H.

(q) This permit was administratively amended on May 26, 2015 to incorporate the requirements of plan approval 62-032I, remove the Etch House / Control (Source 124 and C124), and change the permit contact to Kristen E. Chase.

(r) This permit was administratively amended on July 11, 2016 to change the responsible official from Glenn C. Fegely to Michael P. Barrett

(s) [Reserved] [This paragraph contained information about Plan approval 62-032L which was allowed to expire without being incorporated into the TV permit because the permittee notified the Department that the 2 proposed new annealing furnaces would not be installed. Plan approval 62-032J also expired and the permittee did not commence construction on the project for 62-032J.]

## SECTION H. Miscellaneous.

(t) The permit was renewed on January 30, 2018 with an effective date of February 1, 2018 and an expiration of January 31, 2023.

(u) [Reserved]

(v) [Reserved]

(w) CO emission factor for Source 101A (45T Electric Arc Furnace) when reporting emissions in AIMs:

(1) The CO emission factor when producing stainless steel is 4.5 #/ton or the most recent Department approved stack test result conducted during stainless steel production.

(2) The CO emission factor when producing non-stainless steel is 6.0 #/ton or the most recent Department approved stack test result conducted during non-stainless steel production.

(3) The CO PTE for Source 101A & Source 1000 will decrease from 466.3 tpy to 455.1 tpy as a result in this change in emission factor. This includes the PTE for the Preheaters & Dryers.

(x) This permit was administratively amended on July 24, 2019 to incorporate the requirements of plan approval 62-032M.

(y) Plan approval 62-032N was for the proposed reactivation of Furnace 388 as a new source that will burn natural gas instead of #2 fuel oil and the modification of Furnace 606. Both furnaces are included in Source 111. The plan approval did not change any of the requirments for Source 111.

Source 111, ENF Heat Treat Furnaces (13), consists of the following:
(1) 9 gas-fired vertical furnaces (605, 606, 474, 383, 382, 381, 380, 260, 261) [Furnaces 259 & 262 were removed from the facility in the summer of 2019. Furnaces 384, 385 were removed from the facility in 2021.]
(2) 4 gas-fired horizontal, car bottom, furnaces (388, 464, 679, & 682)

(z) This permit was administratively amended on July 23, 2020 to incorporate Plan approval 62-032N.

(aa) The following sources were RFD approved to be exempt from plan approval but are not exempt from permitting.
(1) Source 140, Spray booths, consists of the following spray coating booth. ENF Shipping Bay Spray Booth, RFD #6750 approved on 2/28/2018, with airless sprayer for steel ship shafts coating. Up to 12 steel shafts per year are coated with the average coverage area being 150 square feet. The coating is Sherwin Williams Nova Plate USH Primer. Emissions were estimated to be 493.92 lbs/hr and 0.09 tpy particulate matter; 0.83 lbs/hr and 0.018 tpy VOC. A second RFD #7905 was approved on 10/7/2019 to notify the Department of a change in epoxy coatings. Up to 15 steel shafts per year are coated and the coatings are Sherwin Williams MIL-DTL-24441D and Sherwin Williams MIL-DTL-15090E. Emissions are now estimated to be 2.8 lbs/hr VOC and 0.0409 tpy VOC.
(2) Source 141, ENS Mold Cleaning Blast, RFD # 7468 approved on 1/22/2019. The East station is controlled by the ladle furnace baghouse, C122. The West station is controlled by a dedicated 8,000 cfm baghouse which exhausts indoors and is not subject to permitting.

(ab) This Title V operating permit renewal, effective March 24, 2022, is issued on March 24, 2022. This renewal issuance includes the processing of a Request for Administrative Amendment to incorporate the applicable conditions of Plan Approval 62-032O. In accordance with EPA guidance regarding the Homer City court decision, this renewal includes the conditions of plan approval 62-032P applicable to Source 114. Additionally the renewal reflects an approval to remove the requirement for future periodic testing from the uncontrolled ENF Heat Treat Furnaces of Source 111 and from the ENC Nitride furnaces 631, 632, 633, 634, & 635.

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