



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PROGRAM

**TITLE V/STATE OPERATING PERMIT**

Issue Date:	October 11, 2012	Effective Date:	July 22, 2014
Revision Date:	July 22, 2014	Expiration Date:	September 30, 2017
Revision Type:	Amendment		

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

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

**TITLE V Permit No: 37-00264**

Federal Tax Id - Plant Code: 25-1482572-1

**Owner Information**

Name: ELLWOOD QUALITY STEELS CO  
Mailing Address: 700 MORAVIA ST  
NEW CASTLE, PA 16101-3950

**Plant Information**

Plant: ELLWOOD QUALITY STEELS CO/NEW CASTLE PLT  
Location: 37 Lawrence County 37001 New Castle City  
SIC Code: 3312 Manufacturing - Blast Furnaces And Steel Mills

**Responsible Official**

Name: MICHAEL MORGUS  
Title: PRESIDENT  
Phone: (724) 658 - 6503

**Permit Contact Person**

Name: RICHARD A SCHOCHET  
Title: PLANT ENGINEER  
Phone: (724) 658 - 6515

[Signature] \_\_\_\_\_  
JOHN F. GUTH, NORTHWEST REGION AIR PROGRAM MANAGER



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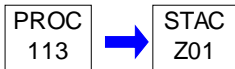
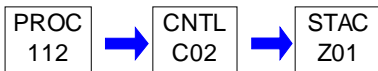
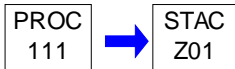
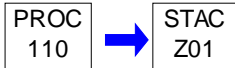
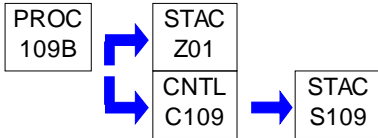
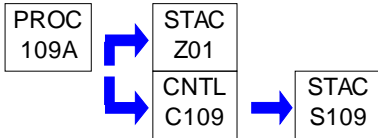
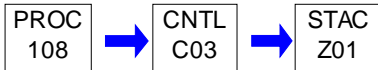
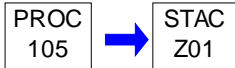
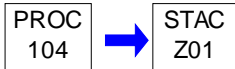
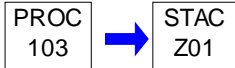
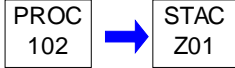
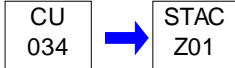
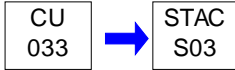
### **Section F. Emission Restriction Summary**

### **Section G. Miscellaneous**

**SECTION A. Site Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
033	BOILERS (4)	42.000 MMBTU/HR	
		42.000 MCF/HR	Natural Gas
034	MISC HEATER UNITS (< 2.5 MMBTU/HR)	10.400 MMBTU/HR	
		10.400 MCF/HR	Natural Gas
101	ELECTRIC ARC FURNACE	76.000 Tons/HR	STEEL
		76.000 Tons/HR	CHARGING
		76.000 Tons/HR	TAPPING
		30.000 MCF/HR	NATURAL GAS
102	ANNEAL FURNACES (6)	65.000 Tons/HR	STEEL
		84.000 MMBTU/HR	Natural Gas
103	SCRAP TORCHING	1.000 MCF/HR	Natural Gas
		60.000 Tons/HR	SCRAP STEEL
104	GAS CUTTER	1.000 MCF/HR	Natural Gas
		60.000 Tons/HR	STEEL
105	TEEMING	76.000 Tons/HR	STEEL
108	INGOT GRINDING	65.000 Tons/HR	STEEL
109A	ELECTRIC LADLE FURNACE	76.000 Tons/HR	
109B	ELECTRIC LADLE FURNACE #2	76.000 Tons/HR	STEEL
110	SCRAP HANDLING	76.000 Tons/HR	
111	VACUUM DEGASSER	76.000 Tons/HR	
112	MOLD GRINDING	76.000 Tons/HR	STEEL
113	VEHICLE TRAVEL		
132	LADLE PREHEATERS (2)	11.200 MCF/HR	Natural Gas
135	EAF PRE-HEATER	6.000 MCF/HR	Natural Gas
136	LIME SILO		
137	BACKUP EMERGENCY DIESEL PUMP		
C01	EAF BAGHOUSE		
C02	MOLD GRINDER BAGHOUSE		
C03	INGOT GRINDER BAGHOUSE		
C109	LADLE FURNACE BAGHOUSE		
C136	LIME SILO BIN VENT FILTER		
S01	EAF BAGHOUSE STACK		
S03	BOILER STACKS (4)		
S109	LADLE FURNACE B.H. STACK		
S136	LIME SILO BIN VENT FILTER EXHAUST		
S137	BACKUP EMERGENCY DIESEL PUMP EXHAUST		
Z01	FUGITIVE EMISSION POINTS		

**PERMIT MAPS**

**PERMIT MAPS**

**PERMIT MAPS**

PROC  
132 → STAC  
Z01

PROC  
135 → CNTL  
C01 → STAC  
S01

PROC  
136 → CNTL  
C136 → STAC  
S136

PROC  
137 → STAC  
S137

**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 § 127.512(c)(4)]****Property Rights**

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

**#003 [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.

**#004 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446(e) & 127.503]****Permit Renewal**

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

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

(c) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413. The application for renewal of the Title V permit shall also include submission of compliance review forms which have been used by the permittee to update information submitted in accordance with either 25 Pa. Code § 127.412(b) or § 127.412(j).

(d) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information during the permit renewal process. The permittee shall also promptly provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

**#005 [25 Pa. Code §§ 127.450(a)(4) & 127.464(a)]****Transfer of Ownership or Operational Control**

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

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

(2) A written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee; and,

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

**SECTION B. General Title V Requirements**

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

**#006 [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.

**#007 [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.

**#008 [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****#009 [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.

**#010 [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.

**#011 [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.

**#012 [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.

**SECTION B. General Title V Requirements****#013 [25 Pa. Code §§ 121.1 & 127.462]****Minor Operating Permit Modifications**

- (a) The permittee may make minor operating permit modifications (as defined in 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.
- (b) 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 an operational flexibility change authorized by 25 Pa. Code § 127.462.

**#014 [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), according to procedures specified in § 127.450. Administrative amendments are not authorized for any amendment precluded by the Clean Air Act or the regulations thereunder from being processed as an administrative amendment.
- (b) Upon taking final action granting a request for an administrative permit amendment in accordance with § 127.450(c), the Department will allow coverage under 25 Pa. Code § 127.516 (relating to permit shield) for administrative permit amendments which meet the relevant requirements of 25 Pa. Code Article III, unless precluded by the Clean Air Act or the regulations thereunder.

**#015 [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.

**#016 [25 Pa. Code §§ 127.704, 127.705 & 127.707]****Fee Payment**

- (a) The permittee shall pay fees to the Department in accordance with the applicable fee schedules in 25 Pa. Code Chapter 127, Subchapter I (relating to plan approval and operating permit fees).
- (b) Emission Fees. The permittee shall, on or before September 1st of each year, pay applicable annual Title V emission fees for emissions occurring in the previous calendar year as specified in 25 Pa. Code § 127.705. The permittee is not required to pay an emission fee for emissions of more than 4,000 tons of each regulated pollutant emitted from the facility.
- (c) As used in this permit condition, the term "regulated pollutant" is defined as a VOC, each pollutant regulated under Sections 111 and 112 of the Clean Air Act and each pollutant for which a National Ambient Air Quality Standard has been promulgated, except that carbon monoxide is excluded.
- (d) Late Payment. Late payment of emission fees will subject the permittee to the penalties prescribed in 25 Pa. Code § 127.707 and may result in the suspension or termination of the Title V permit. The permittee shall pay a penalty of fifty percent (50%) of the fee amount, plus interest on the fee amount computed in accordance with 26 U.S.C.A. § 6621(a)(2) from the date the emission fee should have been paid in accordance with the time frame specified in 25 Pa. Code § 127.705(c).
- (e) The permittee shall pay an annual operating permit administration fee according to the fee schedule established in 25 Pa. Code § 127.704(c) if the facility, identified in Subparagraph (iv) of the definition of the term "Title V facility" in 25 Pa. Code § 121.1, is subject to Title V after the EPA Administrator completes a rulemaking requiring regulation of those sources under Title V of the Clean Air Act.
- (f) This permit condition does not apply to a Title V facility which qualifies for exemption from emission fees under 35 P.S. § 4006.3(f).

**SECTION B. General Title V Requirements****#017 [25 Pa. Code §§ 127.14(b) & 127.449]****Authorization for De Minimis Emission Increases**

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

- (1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.
- (2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

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

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

- (1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.
- (2) One ton of NO<sub>x</sub> from a single source during the term of the permit and 5 tons of NO<sub>x</sub> at the facility during the term of the permit.
- (3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.
- (4) Six-tenths of a ton of PM<sub>10</sub> from a single source during the term of the permit and 3.0 tons of PM<sub>10</sub> at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.
- (5) One ton of VOCs from a single source during the term of the permit and 5.0 tons of VOCs at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.

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

- (1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.
- (2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.
- (3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility, liquefied petroleum gas or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code § 123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.
- (4) Space heaters which heat by direct heat transfer.
- (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

**SECTION B. General Title V Requirements**

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) applies to de minimis emission increases and the installation of minor sources made pursuant to this permit condition.

(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.

**#018 [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).

**#019 [25 Pa. Code §§ 121.9 & 127.216]****Circumvention**

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

(b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this permit, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

**SECTION B. General Title V Requirements****#020 [25 Pa. Code §§ 127.402(d) & 127.513(1)]****Submissions**

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

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

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

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

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

**#021 [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.

**#022 [25 Pa. Code §§ 127.511 & Chapter 135]****Recordkeeping Requirements**

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

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

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

**SECTION B. General Title V Requirements**

(c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

**#023 [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 #020(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.

**#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 the date of issuance of this Title V Operating Permit, or on the submittal date specified elsewhere in the permit, to the Department and EPA in accordance with the submission requirements specified in condition #020 of this section.

**#025 [25 Pa. Code § 127.3]****Operational Flexibility**

(a) 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:

**SECTION B. General Title V Requirements**

- (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)

(b) Unless precluded by the Clean Air Act or the regulations adopted thereunder, the permit shield authorized under 25 Pa. Code § 127.516 shall extend to operational flexibility changes made at this Title V facility pursuant to this permit condition and other applicable operational flexibility terms and conditions of this permit.

**#026 [25 Pa. Code §§ 127.441(d), 127.512(i) and 40 CFR Part 68]****Risk Management**

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

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

- (1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:
  - (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
  - (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

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

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

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

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

- (1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,
- (2) Certify that the Title V facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.

(e) If the Title V facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation

**SECTION B. General Title V Requirements**

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 Condition #24 of Section B of this Title V permit that the Title V facility is in compliance with the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68, and 25 Pa. Code § 127.512(i).

**#027 [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.

**#028 [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 on minor or significant permit modifications, and operational flexibility changes shall be covered by the permit shield. Upon taking final action granting a request for an administrative permit amendment, the Department will allow coverage of the amendment by the permit shield in § 127.516 for administrative amendments which meet the relevant requirements of 25 Pa. Code Article III.

(d) The permit shield authorized under § 127.516 is in effect for the permit terms and conditions in this Title V permit, including administrative operating permit amendments and minor operating permit modifications.



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

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

- (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) Sources and classes of sources other than those identified above 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.

[Compliance with the requirements specified in this streamlined permit condition assures compliance with the provisions in: 40 CFR 60.272a(a)(3) and 40 CFR 60.272a(b).]

**# 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 Section C, Condition #001, above, (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

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

a) Limitations are as follows:

- (1) If control of malodorous air contaminants is required under subsection (b), emissions shall be incinerated at a minimum of 1200F for at least 0.3 seconds prior to their emission into the outdoor atmosphere.
  - (2) Techniques other than incineration may be used to control malodorous air contaminants if such techniques are equivalent to or better than the required incineration in terms of control of the odor emissions and are approved in writing by the Department.
- b) A person may not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.
- c) Not applicable

**# 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:

**SECTION C. Site Level Requirements**

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

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

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

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

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

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

(3) When the emission results from sources specified in 25 PA Code 123.1(a)(1) -- (9) (relating to prohibition of certain fugitive emissions).

(4) Not applicable

**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 450,000 tons of steel ingots per year (based on a 12-month rolling total).

[Plan Approval No. 37-264G, Condition No. 1 replaces the previous limit of 415,446 tons of steel ingots per year from Plan Approval No. 37-264E, Condition No. 4 and 25 Pa Code 127.449(d)(1) De Minimus Emission Increases]

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

Visible emissions may be measured using either of the following:

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

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

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

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

**III. MONITORING REQUIREMENTS.****# 009 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

a) The permittee shall conduct daily monitoring of the plant property, while the facility is in operation, for the presence of fugitive and visible emissions and malodors.

b) All detected visible emissions and malodors shall be reported to the shift supervisor.

**SECTION C. Site Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 010 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The owner and operator of the facility shall maintain a rolling total of the natural gas consumption, and facility production by adding the monthly totals to the eleven previous months.

[From Plan Approval No. 37-246E, Condition No. 22]

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

The permittee shall maintain records in accordance with the recordkeeping requirements of 25 PA Code 129.95. At a minimum, this shall include:

1. The number of hours per calendar year that each of the sources is operated.
2. The amount of fuel used for each of the sources and these records shall be made available to the Department upon request.

[From RACT Approval No. OP 37-313, Condition No. 6]

**# 012 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

The permittee shall maintain a record of all reports of fugitive and visible emissions and malodors and the corrective action taken to abate or prevent future occurrences.

**# 013 [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 25 PA Code 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.****# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee, within 1 hour of occurrence, shall notify the Department at (814) 332-6940 of any malfunction of the source(s) or associated air cleaning device(s) which results in, or may possibly be resulting in, the emission of air contamination in excess of the limitations specified in, or established pursuant to, any applicable rule or regulation contained in Article III of the Rules and Regulations of the Department of Environmental Protection. A written report shall be submitted to the Department within two working days following the incident describing the malfunctions and the corrective action taken.

[From RACT Approval No. OP 37-313, Condition No. 8]

**# 015 [25 Pa. Code §135.21]****Emission statements**

a) Except as provided in subsection (d), this section applies to stationary sources or facilities:

(1) Located in an area designated by the Clean Air Act as a marginal, moderate, serious, severe or extreme ozone nonattainment area and which emit oxides of nitrogen or VOC.

(2) Not located in an area described in subparagraph (1) and included in the Northeast Ozone Transport Region which emit or have the potential to emit 100 tons or more oxides of nitrogen or 50 tons or more of VOC per year.

b) The owner or operator of each stationary source emitting oxides of nitrogen or VOC's shall provide the Department with a statement, in a form as the Department may prescribe, for classes or categories of sources, showing the actual emissions of oxides of nitrogen and VOCs from that source for each reporting period, a description of the method used to calculate the

**SECTION C. Site Level Requirements**

emissions and the time period over which the calculation is based. The statement shall contain a certification by a company officer or the plant manager that the information contained in the statement is accurate.

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

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

d) Not applicable

**# 016 [25 Pa. Code §135.3]****Reporting**

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

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

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

**# 017 [25 Pa. Code §135.4]****Report format**

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

**VI. WORK PRACTICE REQUIREMENTS.****# 018 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

A person responsible for any source specified in Section C, Condition #001, above, shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.
- (2) Application of asphalt, oil, water or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (3) Paving and maintenance of roadways.
- (4) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

**VII. ADDITIONAL REQUIREMENTS.****# 019 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The expiration date shown on the RACT Operating Permit is for State purposes. For Federal Enforcement purposes, the RACT portion of this Operating permit shall remain in effect as part of the State Implementation Plan (SIP) until replaced

**SECTION C. Site Level Requirements**

pursuant to 40 CFR 51.4 and approved by the US Environmental Protection Agency (EPA).

[From RACT Approval No. OP 37-313, Condition No. 7]

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

a) The 6-month deviation report, required under Section B Condition #023, shall be submitted to the Department within 30-days of the end of the reporting period. The 6-month deviation report shall cover the following periods unless otherwise approved by the Department:

1. February 1 through July 31
2. August 1 through January 31

b) The annual compliance certification report, required under Section B Condition #024, 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 period of August 1 through July 31 unless otherwise approved by the Department.

**# 021 [25 Pa. Code §129.14]****Open burning operations**

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

b) Not applicable

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

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

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

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

(4) A fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.

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

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

(7) A fire set solely for cooking food.

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

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

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

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

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

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

**SECTION C. Site Level Requirements**

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

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

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

(3) Not applicable

(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]

**VIII. COMPLIANCE CERTIFICATION.**

The permittee shall submit within thirty days of 07/31/2009 a certificate of compliance with all permit terms and conditions set forth in this Title V permit as required under condition #24 of section B of this permit, and annually thereafter.

**IX. COMPLIANCE SCHEDULE.**

No compliance milestones exist.

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

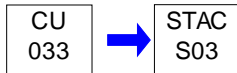
**SECTION D. Source Level Requirements**

Source ID: 033

Source Name: BOILERS (4)

Source Capacity/Throughput: 42.000 MMBTU/HR

42.000 MCF/HR Natural Gas

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

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

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

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

(a)-(b) Not Applicable

(c) Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley and Johnstown air basins. Combustion units in these subject air basins shall conform with the following:

(1) General provision. No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO<sub>2</sub>, from any combustion unit, at any time, in excess of the rate of 3 pounds per million Btu of heat input over any 1-hour period except as provided for in paragraph (4).

(2)-(4) Not Applicable

(d)-(e) Not Applicable

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

Each boiler shall be capable of reducing nitrogen oxide (NO<sub>x</sub>) and carbon monoxide (CO) emissions to or below:

1. 30 ppm<sub>dv</sub> NO<sub>x</sub> at 3% O<sub>2</sub>
2. 400 ppm<sub>dv</sub> CO at 3% O<sub>2</sub>

[From General Permit No. GP-37-264, Conditions No. 18 & 26]

**Fuel Restriction(s).****# 004 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

The permittee shall use only natural gas as the fuel for this combustion source.

**Throughput Restriction(s).****# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The natural gas consumption from the boilers shall not exceed 221,808 MCF of natural gas per year, based on a 12-month rolling total.

[Plan Approval No. 37-264G, Condition No. 1 replaces the previous gas consumption limit of 203,570 MCF of natural gas per year from Plan Approval No. 37-264E, Condition No. 9]

**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.**

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

The permittee shall maintain daily fuel consumption records in accordance with 40 CFR 60.48c(g).

[From General Permit No. GP-37-264, Condition No. 23]

**# 007 [25 Pa. Code §127.511]  
Monitoring and related recordkeeping and reporting requirements.**

The permittee shall maintain a log of all inspections or maintenance performed on this source. At a minimum, the log shall indicate the date of, reason for, and the results of the inspection/maintenance.

**V. REPORTING REQUIREMENTS.**

**# 008 [25 Pa. Code §127.511]  
Monitoring and related recordkeeping and reporting requirements.**

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

Director Air, Toxics and Radiation Division  
US EPA, Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

[From General Permit No. GP-37-264, Condition No. 25]

**VI. WORK PRACTICE REQUIREMENTS.**

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

The owner and operator of the facility shall install and maintain fuel meters to indicate the natural gas consumption of the furnaces (No. 15, 16, 17, 18, 19, and 20), the boilers (Source 033), the two ladle preheaters (Source 132), the EAF preheater (Source 135), the scrap torch (Source 103), the gas cutter (Source 104), and the miscellaneous heaters (Source 034).

[From Plan Approvals No. PA-37-264B, Condition No. 8; PA-37-264C, Condition No. 24; PA-37-264D, Condition No. 9; 37-264E, Condition No. 23; 36-264F, Condition No. 9]

[Compliance with the requirement specified in this streamlined permit condition assures compliance with the provisions in: GP-37-264, Condition No. 21]

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

a) Pursuant to 25 PA Code 129.93(c)(1) of the RACT requirements, RACT for the boilers and other combustion sources with individual rated gross heat inputs less than 20 mmbtu/hr shall be installation, maintenance, and operation in accordance with the manufacturer's specifications. These sources shall also be operated and maintained in accordance with good air pollution control practices. [From RACT Approval No. OP 37-313, Condition No. 4]



**SECTION D. Source Level Requirements**

b) The permittee shall install and maintain Low NOx burners that comply with Condition #003 to meet the BAT requirement.  
[From General Permit No. GP-37-264, Condition No. 17]

**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. \*\*\***

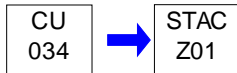
**SECTION D. Source Level Requirements**

Source ID: 034

Source Name: MISC HEATER UNITS (&lt; 2.5 MMBTU/HR)

Source Capacity/Throughput: 10.400 MMBTU/HR

10.400 MCF/HR Natural Gas

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

(a)-(b) Not applicable

(c) Allentown, Bethlehem, Easton, Reading, Upper Beaver Valley and Johnstown air basins. Combustion units in these subject air basins shall conform with the following:

(1) General provision. No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO<sub>2</sub>, from any combustion unit, at any time, in excess of the rate of 3 pounds per million Btu of heat input over any 1-hour period except as provided for in paragraph (4).

(2)-(4) Not applicable

(d)-(e) Not applicable

**Fuel Restriction(s).****# 002 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

The permittee shall use only natural gas as the fuel for this combustion source.

**Throughput Restriction(s).****# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The total natural gas consumption from the scrap torch (Source 103), gas cutter (Source 104) and the miscellaneous heaters (Source 034) shall not exceed 241,092 MCF of natural gas per year, based on a 12-month rolling total.

[Plan Approval No. 37-264G, Condition No. 1 replaces the previous gas consumption limit of 221,269 MCF of natural gas per year from Plan Approval No. 37-264E, Condition No. 8]

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

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

The permittee shall maintain monthly records of the fuel consumption.

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

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

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

The owner and operator of the facility shall install and maintain fuel meters to indicate the natural gas consumption of the furnaces (No. 15, 16, 17, 18, 19 and 20), the boilers (Source 033), the two ladle preheaters (Source 132), the EAF preheater (Source 135), the scrap torch (Source 103), the gas cutter (Source 104), and the miscellaneous heaters (Source 034).

[From Plan Approvals No. PA-37-264B, Condition No. 8; PA-37-264C, Condition No. 24; PA-37-264D, Condition No. 9; 37-264E, Condition No. 23; 36-264F, Condition No. 9]

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

Pursuant to 25 PA Code 129.93(c)(1) of the RACT requirements, RACT for the boilers and other combustion sources with individual rated gross heat inputs less than 20 mmbtu/hr shall be installation, maintenance, and operation in accordance with the manufacturer's specifications. These sources shall also be operated and maintained in accordance with good air pollution control practices.

[From RACT Approval No. OP 37-313, Condition No. 4]

**VII. ADDITIONAL REQUIREMENTS.**

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

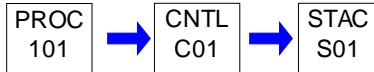
**\*\*\* Permit Shield in Effect. \*\*\***

**SECTION D. Source Level Requirements**

Source ID: 101

Source Name: ELECTRIC ARC FURNACE

Source Capacity/Throughput:	76.000 Tons/HR	STEEL
	76.000 Tons/HR	CHARGING
	76.000 Tons/HR	TAPPING
	30.000 MCF/HR	NATURAL GAS

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

a) The emissions from the EAF (Source 101) shall not exceed the following:

- (1) Carbon Monoxide - 4.6 lbs/ton steel produced and 1,035 tons per year
- (2) Nitrogen Oxides- 0.1 lbs/ton steel produced and 22.5 tons per year
- (3) Sulfur Oxides- 0.45 lbs/ton steel produced and 101.25 tons per year
- (4) VOC - 0.3 lbs/ton steel produced and 67.5 tons per year
- (5) PM-10- 0.15 lbs/ton steel produced and 33.75 tons per year
- (6) PM- 33.75 tons per year

The tons per year limits shall be based on a 12-month rolling total.

[Plan Approval No. 37-264G, Condition No. 2 replaces condition (a) limitations from Plan Approval No. PA-37-264C, Condition No. 15]

b) The permittee shall not permit the emission of particulate matter from the electric arc furnace baghouse (C01) in an amount greater than 0.0041 grains/dry standard cubic feet of exhaust air from the baghouse.

[Compliance with the requirements specified in this streamlined permit condition (b) assures compliance with the provisions in: 40 CFR 60.272a(a)(1) and 40 CFR 63.10686(b)(1)]

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

The Department reserves the right to establish to impose more stringent limitations based on results from stack testing.

[Plan Approval No. 37-264G, Condition No. 1]

**# 003 [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 40 CFR 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) Streamlined permit Condition;
- (2) Exit from a control device and exhibit 3 percent opacity or greater; and
- (3) Streamlined permit Condition.

b) Streamlined permit Condition.

**SECTION D. Source Level Requirements****Throughput Restriction(s).****# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The total natural gas consumption from the EAF burners shall not exceed 116,603 MCF of natural gas per year, calculated as a 12-month rolling total.

[Plan Approval No. 37-264G, Condition No. 5]

**Control Device Efficiencies Restriction(s).****# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The capture efficiency from the EAF Direct Evacuation Control (DEC) duct shall be at least 90%.

[Plan Approval No. 37-264G, Condition No. 6]

[Compliance with this requirement assures compliance with the provisions in: 40 CFR 63.10686(a)]

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

(a) Every year (12 months), a stack test shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection and the most current edition of the Department's "Source Testing Manual" for CO and NO<sub>x</sub> emissions. The stack tests shall be performed while the Electric Arc Furnace is operating in the range of a minimum of 54.8 TPH to a maximum of 76 TPH. The CO and NO<sub>x</sub> testing for the EAF shall be conducted in the duct prior to the positive pressure baghouse.

(b) [25 Pa. Code § 139.53(a)(3)] At least 60 calendar days prior to commencing an emissions testing program, a test protocol shall be submitted to the Department for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(c) [25 Pa. Code § 139.53(a)(3)] At least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the appropriate Regional Office. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

(d) [25 Pa. Code § 139.53(a)(3)] Within 15 calendar days after completion of the on-site testing portion of an emission test program, if a complete test report has not yet been submitted, an electronic mail notification shall be sent to the Department's Division of Source Testing and Monitoring and the appropriate Regional Office indicating the completion date of the on-site testing.

(e) [40 CFR Part 60.8(a)] A complete test report shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an emission test program.

(f) [25 Pa. Code Section 139.53(b)] A complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or non-compliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:

1. A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
2. Permit number(s) and condition(s) which are the basis for the evaluation.
3. Summary of results with respect to each applicable permit condition.
4. Statement of compliance or non-compliance with each applicable permit condition.

(g) [25 Pa. Code § 139.3] All submittals shall meet all applicable requirements specified in the most current version of the

**SECTION D. Source Level Requirements**

Department's Source Testing Manual.

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

(i) [25 Pa. Code Section 139.53(a)(1) and 139.53(a)(3)] All submittals, besides notifications, shall be accomplished through PSIMS\*Online available through <https://www.depgreenport.state.pa.us/ecom/Login.jsp> when it becomes available.

If internet submittal can not be accomplished, two copies of the submittal shall be sent to the Pennsylvania Department of Environmental Protection, Bureau of Air Quality, Division of Source Testing and Monitoring, 400 Market Street, 12th Floor Rachael Carson State Office Building, Harrisburg, PA 17105-8468 with deadlines verified through document postmarks. In a like manner, one copy of the submittal shall be sent to the appropriate Regional Office.

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

(k) Actions Related to Noncompliance Demonstrated by 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 operating 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 operating permit, 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 operating 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 operating permit may be grounds for immediate revocation of the operating permit to operate the affected source.

[Plan Approval No. 37-264G, Condition No.7]

**# 007 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) At least 6-12 months prior to permit renewal, a stack test shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection and the most current edition of the Department's "Source Testing Manual" for SO<sub>x</sub>, VOC, PM and PM-10 emissions. The stack tests shall be performed while the Electric Arc Furnace is operating in the range of a minimum of 54.8 TPH to a maximum of 76 TPH. The SO<sub>x</sub> and VOC testing for the EAF shall be conducted upstream of the baghouse. The PM and PM-10 testing for the EAF shall be conducted downstream to the positive pressure baghouse.

(b) [25 Pa. Code § 139.53(a)(3)] At least 60 calendar days prior to commencing an emissions testing program, a test protocol shall be submitted to the Department for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(c) [25 Pa. Code § 139.53(a)(3)] At least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the appropriate Regional Office. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

**SECTION D. Source Level Requirements**

(d) [25 Pa. Code § 139.53(a)(3)] Within 15 calendar days after completion of the on-site testing portion of an emission test program, if a complete test report has not yet been submitted, an electronic mail notification shall be sent to the Department's Division of Source Testing and Monitoring and the appropriate Regional Office indicating the completion date of the on-site testing.

(e) [40 CFR Part 60.8(a)] A complete test report shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an emission test program.

(f) [25 Pa. Code Section 139.53(b)] A complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or non-compliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:

1. A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
2. Permit number(s) and condition(s) which are the basis for the evaluation.
3. Summary of results with respect to each applicable permit condition.
4. Statement of compliance or non-compliance with each applicable permit condition.

(g) [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.

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

(i) [25 Pa. Code Section 139.53(a)(1) and 139.53(a)(3)] All submittals, besides notifications, shall be accomplished through PSIMS\* Online available through <https://www.dep.greenport.state.pa.us/ecommm/Login.jsp> when it becomes available.

If internet submittal can not be accomplished, two copies of the submittal shall be sent to the Pennsylvania Department of Environmental Protection, Bureau of Air Quality, Division of Source Testing and Monitoring, 400 Market Street, 12th Floor Rachael Carson State Office Building, Harrisburg, PA 17105-8468 with deadlines verified through document postmarks. In a like manner, one copy of the submittal shall be sent to the appropriate Regional Office.

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

(k) Actions Related to Noncompliance Demonstrated by 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 operating 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 operating permit, 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 operating 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 operating permit may be

**SECTION D. Source Level Requirements**

grounds for immediate revocation of the operating permit to operate the affected source.

[Compliance with this requirement assures compliance with the provisions in: 40 CFR 63.10686(d)]

**# 008 [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) During performance tests required in 40 CFR 60.8, the owner or operator shall not add gaseous diluents to the effluent gas stream after the fabric in any pressurized fabric filter collector, unless the amount of dilution is separately determined and considered in the determination of emissions.

b) When emissions from any EAF(s) or AOD vessel(s) are combined with emissions from facilities not subject to the provisions of this subpart but controlled by a common capture system and control device, the owner or operator shall use either or both of the following procedures during a performance test (see also 40 CFR 60.276a(e)):

(1) Determine compliance using the combined emissions.

(2) Use a method that is acceptable to the Administrator and that compensates for the emissions from the facilities not subject to the provisions of this subpart.

c) Not applicable

d) In conducting the performance tests required in 40 CFR 60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in 40 CFR 60.8(b).

e) The owner or operator shall determine compliance with the particulate matter standards in 40 CFR 60.272a as follows:

(1) Method 5 shall be used for negative-pressure fabric filters and other types of control devices and Method 5D shall be used for positive-pressure fabric filters to determine the particulate matter concentration and volumetric flow rate of the effluent gas. The sampling time and sample volume for each run shall be at least 4 hours and 4.50 dscm (160 dscf) and, when a single EAF or AOD vessel is sampled, the sampling time shall include an integral number of heats.

(2) When more than one control device serves the EAF(s) being tested, the concentration of particulate matter shall be determined using the equation in 40 CFR 60.275a(e)(2).

(3) Method 9 and the procedures of 40 CFR 60.11 shall be used to determine opacity.

(4) To demonstrate compliance with 40 CFR 60.272a(a)(1), (2), and (3), the Method 9 test runs shall be conducted concurrently with the particulate matter test runs, unless inclement weather interferes.

f) To comply with 40 CFR 60.274a(c), (f), (g), and (h), the owner or operator shall obtain the information required in these paragraphs during the particulate matter runs.

g) Any control device subject to the provisions of the subpart shall be designed and constructed to allow measurement of emissions using applicable test methods and procedures.

h) Where emissions from any EAF(s) or AOD vessel(s) are combined with emissions from facilities not subject to the provisions of this subpart but controlled by a common capture system and control device, the owner or operator may use any of the following procedures during a performance test:

(1) Base compliance on control of the combined emissions;

(2) Utilize a method acceptable to the Administrator that compensates for the emissions from the facilities not subject to the provisions of this subpart, or;



**SECTION D. Source Level Requirements**

(3) Any combination of the criteria of paragraphs (h)(1) and (h)(2) of this section.

i) Not applicable

j) Unless the presence of inclement weather makes concurrent testing infeasible, the owner or operator shall conduct concurrently the performance tests required under 40 CFR 60.8 to demonstrate compliance with 40 CFR 60.272a(a)(1), (2), and (3) of this subpart.

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

Parts (a) through (d) 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.

1. Baghouse differential pressure
2. Fan amperage
3. Inspection & Maintenance (I & M) Plan
4. Visual emission check

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

1. Differential pressure gauge
2. Ammeter
3. Certified Method 9 reader

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

1. Baghouse differential pressure - continuously
2. Fan amperage - continuously
3. Visible emission - daily

d) The permittee shall use the approved period over which discrete data points for approved indicator(s) will be collected and averaged for the purpose of determining an excursion.

1. Baghouse differential pressure recorded once per 15 minutes and averaged over a 3 hour period
2. Fan amperage recorded once per 15 minutes and averaged over a 3 hour period
3. Visible emission readings taken for at least three 6-minute periods

[Compliance with this requirement assures compliance with the requirement in: 40 CFR 63.10686(e)]

**# 010 [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) Not applicable

b) No continuous monitoring system shall be required on any control device serving the dust-handling system.

c) A continuous monitoring system for the measurement of the opacity of emissions discharged into the atmosphere from control device(s) is not required on any modular, multiple-stack, negative-pressure or positive-pressure fabric filters 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 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

**SECTION D. Source Level Requirements**

(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 emissions, only one set of three 6-minute observations will be required. In that case, 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 40 CFR 60.272a(a) of this subpart.

d) Streamlined permit Condition.

e - g) Not applicable

**# 011 [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) Streamlined permit Condition.

c) Not applicable

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) Streamlined permit Condition.

g) Streamlined permit Condition.

h) During any performance test required under 40 CFR 60.8, and for any report thereof required by 40 CFR 60.276a(f) of this subpart, or to determine compliance with 40 CFR 60.272a(a)(3) of this subpart, the owner or operator shall monitor the following information for all heats covered by the test:

(1) Charge weights and materials, and tap weights and materials;

(2) Heat times, including start and stop times, and a log of process operation, including periods of no operation during testing and the pressure inside an EAF when direct-shell evacuation control systems are used;

(3) Control device operation log; and

(4) Continuous opacity monitor or Method 9 data.

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 012 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The owner and operator of the facility shall maintain a record of the rolling total of the CO, NO<sub>x</sub>, SO<sub>x</sub>, VOC, PM and PM-10 emissions from the EAF. The rolling total shall be calculated by multiplying the results of the last acceptable stack test by the production during the most recent calendar month and adding that total to the emissions from the eleven previous calendar months.

**# 013 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall maintain a rolling total of the hours of operation, natural gas consumption and ingot production at the EAF. The rolling total shall be calculated by adding the amount of the hours of operation, natural gas consumption, and ingot production from the most recent calendar month to the eleven previous calendar months.

[Plan Approval No. 37-264G, Condition No. 12 replaces the previous conditions from Plan Approvals No. PA-37-264B, Condition No.9; PA-37-264C, Condition No. 23; PA-37-264D, Condition No. 10; 37-264E, Condition No. 22; 37-264F, Condition No. 10]

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

Parts (a) through (f) are CAM related requirements

a) The permittee shall record continuously the approved indicator(s) using approved data collecting device(s).

1. Baghouse differential pressure recorded using a PLC
2. Fan amperage recorded using a PLC

b) The permittee shall keep records of the inspections and maintenance relating to the I & M Plan.

c) The permittee shall keep records of the visible emission observations.

d) 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.

e) 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.

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

[Compliance with this requirement assures compliance with the requirement in: 40 CFR 63.10686(e)]

**# 015 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

a) The permittee shall maintain a log of all equipment inspections and repairs of this source and control device.

b) The permittee shall maintain a rolling total of the amount of particulate matter emitted from the electric arc furnace baghouse (C01). The rolling total will be determined by adding the amount of particulate matter emissions from the most recent calendar month to the previous eleven calendar months.

**V. REPORTING REQUIREMENTS.****# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Parts (a) and (b) are CAM related requirements

**SECTION D. Source Level Requirements**

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

[Compliance with this requirement assures compliance with the requirement in: 40 CFR 63.10686(e)]

**# 017 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

The permittee shall submit an annual report showing the monthly rolling total of the hours of operation of this source and the particulate emissions from the electric arc furnace baghouse (C01).

**# 018 [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) Streamlined permit Condition.
- 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)-e) Not applicable
- f) For the purpose of this subpart, the owner or operator shall conduct the demonstration of compliance with 40 CFR 60.272a(a) of this subpart and furnish the Administrator a written report of the results of the test. This report shall include the following information:
- (1) Facility name and address;
  - (2) Plant representative;
  - (3) Make and model of process, control device, and continuous monitoring equipment;
  - (4) Flow diagram of process and emission capture equipment including other equipment or process(es) ducted to the same control device;
  - (5) Rated (design) capacity of process equipment;
  - (6) Those data required under 40 CFR 60.274a(h) of this subpart;
  - (i) List of charge and tap weights and materials;
  - (ii) Heat times and process log;
  - (iii) Control device operation log; and
  - (iv) Continuous monitor or Method 9 data.
  - (7) Test dates and test times;
  - (8) Test company;
  - (9) Test company representative;

**SECTION D. Source Level Requirements**

- (10) Test observers from outside agency;
- (11) Description of test methodology used, including any deviation from standard reference methods;
- (12) Schematic of sampling location;
- (13) Number of sampling points;
- (14) Description of sampling equipment;
- (15) Listing of sampling equipment calibrations and procedures;
- (16) Field and laboratory data sheets;
- (17) Description of sample recovery procedures;
- (18) Sampling equipment leak check results;
- (19) Description of quality assurance procedures;
- (20) Description of analytical procedures;
- (21) Notation of sample blank corrections; and
- (22) Sample emission calculations.

g) The owner or operator shall maintain records of all shop opacity observations made in accordance with 40 CFR 60.273a(d). All shop opacity observations in excess of the emission limit specified in 40 CFR 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 40 CFR 60.7(c).

h) Not applicable

**# 019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10690]**

**Subpart YYYYY - National Emission Standards for Hazardous Air Pollutants for Area Sources: Electric Arc Furnace Steelmaking Facilities**

**What parts of the General Provisions apply to this subpart?**

(b) The notification of compliance status required by § 63.9(h) must include each applicable certification of compliance, signed by a responsible official, in paragraphs (b)(1) through (6) of this section.

(1) - (3) See Source 110 Reporting Requirements (63.10690)

(4) This certification of compliance for the capture system requirements in § 63.10686(a), signed by a responsible official: "This facility operates a capture system for each electric arc furnace and argon-oxygen decarburization vessel that conveys the collected emissions to a PM control device in accordance with § 63.10686(a)".

(5) If applicable, this certification of compliance for the performance test requirements in § 63.10686(d)(6): "This facility certifies initial compliance with the applicable emissions limit in § 63.10686(a) or (b) based on the results of a previous performance test in accordance with § 63.10686(d)(6)".

(6) This certification of compliance for the monitoring requirements in § 63.10686(e), signed by a responsible official: "This facility has developed and submitted proposed monitoring information in accordance with 40 CFR part 64".

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 020 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

a) The permittee shall perform visible observations of shop opacity by a certified visible emission observer as follows:

1. Shop opacity observations shall be conducted at least once per day when the furnace is operating in the meltdown and refining period. Shop opacity shall be determined as the arithmetic average of 24 consecutive 15-second opacity observations of emissions from the shop taken in accordance with Method 9. Shop opacity shall be recorded for any point(s) where visible emissions are observed. Where it is possible to determine that a number of visible emissions sites relate to only one incident of visible emissions, only one observation of shop opacity will be required. In this case, the shop opacity 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. [From Plan Approval No. PA-37-264C, Condition No. 25]

[Compliance with the requirements specified in this streamlined permit condition (a)(1) assures compliance with the provisions in: 40 CFR 60.273a(d) and 40 CFR 63.10686(b)(2)]

b) The permittee shall no longer be required to check and record the furnace static pressure or install, calibrate and maintain a monitoring device for the pressure in the free space inside the EAF to demonstrate compliance with the monitoring operations under 40 CFR 60.274a (This makes 40 CFR 60.274a(b), (f), & (g) not applicable). [From Plan Approval No. PA-37-264C, Conditions No. 26]

c) The permittee shall operate the electric arc furnace baghouse (C01) at all times when this source is in operation.

d) The permittee shall operate and maintain the electric arc furnace and the electric arc furnace baghouse in accordance with the manufacturer's specifications for each piece of equipment.

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

a) Pursuant to 25 PA Code 129.93(b)(2) of the RACT requirements, RACT for the EAF Burners with rated heat input equal to or greater than 20 mmbtu/hr and less than 50 mmbtu/hr shall perform an annual adjustment or tune-up on the combustion process. The annual adjustment includes inspection, tuning in accordance with the EPA document "Combustion Efficiency Optimization Manual for Operators of Oil and Gas-fired Boilers". [From RACT Approval No. OP 37-313, Condition No. 3]

b) RACT for the EAF shall be the continued operation of the DEC and oxyfuel burners for NOx control and scrap management and DEC system combustion for VOC control. The permittee shall continue to examine each shipment of scrap for excess insulation, rubber, non-metallics, heavy grease or oil. [From RACT Approval No. OP 37-313, Condition No. 5]

Parts (c) through (h) are CAM related requirements

c) Within ninety (90) days of permit issuance, the permittee shall submit for Department approval, an inspection and maintenance (I & M) plan. This plan shall, at a minimum, address the following:

1. Types of inspections and maintenance performed on the ductwork
2. Types of inspections and maintenance performed on the fans
3. Types of inspections and maintenance performed on the baghouse
  - (a) How often an internal inspection of the baghouse is required
  - (b) How often bag replacement will occur
  - (c) What inspections will be performed to determine if earlier replacement is necessary

d) 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. Baghouse differential pressure shall be Between 3 and 11 inches H2O
2. Fan amperage shall be between 80 and 100 amps during melting and refining period for Fan #1 and between 70-100

**SECTION D. Source Level Requirements**

amps for Fan #2.

3. Performing inspections and maintenance required by the I & M Plan

4. Visible emissions with opacity greater than 3 percent

e) 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.

2. The permittee shall develop verification procedures to confirm the operational status of approved monitoring.

3. For QA/QC purposes, the permittee shall calibrate and check the accuracy of monitoring equipment taking into account the manufacturer's specifications at approved time intervals.

- a) Baghouse differential pressure gauge shall be calibrated quarterly
- b) Baghouse differential pressure gauge taps checked daily for plugging
- c) Ammeter shall be calibrated quarterly and zeroed when unit not operating
- d) Visible emission observer certified annually for Method 9

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

g) The permittee shall ensure that at least 90% of the approved monitoring data collected is valid.

h) 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 issuance date of the permit.

**VII. ADDITIONAL REQUIREMENTS.**

**# 022 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

Parts (a) through (e) are CAM related requirements

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

- 1. Six excursions occur in a six-month period
- 2. The Department determines after review of all reported information that the permittee has not responded acceptably to an excursion

b) 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.

c) 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 QIP shall be modified 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

d) 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**

e) Implementation of a QIP, shall not excuse the permittee 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.

**# 023 [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.**

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.

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



**SECTION D. Source Level Requirements**

Source ID: 102

Source Name: ANNEAL FURNACES (6)

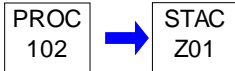
Source Capacity/Throughput:

65.000 Tons/HR

STEEL

84.000 MMCF/HR

Natural Gas

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

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

b) No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

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

a) The NO<sub>x</sub> emissions from the number 15, 16, 17, 18, and 19 furnaces shall not exceed 65 lb/MMCF (for each unit, respectively). [From Plan Approvals No. 37-264E, Condition No. 6 and 37-264F, Condition No. 8]

b) The NO<sub>x</sub> emissions from the No. 17 furnace shall not exceed 4.6 tons per year (based on a 12 month rolling average). [From Plan Approval No. 37-264F, Condition No. 7]

**Fuel Restriction(s).****# 003 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

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

**Throughput Restriction(s).****# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The total combined annual gas usage for furnace No. 15, 16, 17, 18, and 19 shall not exceed 1,014,504 MCF per year (based on a 12-month rolling total). The total annual gas usage for furnace No. 20 shall not exceed 54,744 MCF per year (based on a 12-month rolling total).

[Plan Approval No. 37-264G, Condition No. 1 replaces the previous gas consumption limit of 931,089 MCF per year from Plan Approval No. 37-264F, Condition No. 6]

**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).

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The owner and operator of the facility shall maintain a rolling total of the natural gas consumption and facility production by adding the monthly totals to the eleven previous months.

[From Plan Approvals No. PA-37-264B, Condition No. 9; PA-37-264C, Condition No. 23; PA-37-264D, Condition No. 10; 37-264E, Condition No. 22; 37-264F, Condition No. 10]

**V. REPORTING REQUIREMENTS.**

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

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

The owner and operator of the facility shall install and maintain fuel meters to indicate the natural gas consumption of the furnaces (No. 15, 16, 17, 18, 19 and 20), the boilers (Source 033), the two ladle preheaters (Source 132), the EAF preheater (Source 135), the scrap torch (Source 103), the gas cutter (Source 104), and the miscellaneous heaters (Source 034).

[From Plan Approvals No. PA-37-264B, Condition No. 8; PA-37-264C, Condition No. 24; PA-37-264D, Condition No. 9; 37-264E, Condition No. 23; 36-264F, Condition No. 9]

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

The facility shall install and maintain the Low NOx Burners for Furnaces 15, 16, 17, 18 and 19 in accordance with the manufacturer's specifications and consistent with good air pollution control practices.

[From Plan Approvals No. PA-37-264B, Condition No. 5; PA-37-264D, Condition No. 5; 37-264F, Condition No. 5]

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

a) Pursuant to 25 PA Code 129.93(b)(2) of the RACT requirements, RACT for the No. 19 Annealing Furnace with rated heat input equal to or greater than 20 mmbtu/hr and less than 50 mmbtu/hr shall perform an annual adjustment or tune-up on the combustion process. The annual adjustment includes inspection, tuning in accordance with the EPA document "Combustion Efficiency Optimization Manual for Operators of Oil and Gas-fired Boilers". [From RACT Approval No. OP 37-313, Condition No. 3]

b) Pursuant to 25 PA Code 129.93(c)(1) of the RACT requirements, RACT for the boilers and other combustion sources with individual rated gross heat inputs less than 20 mmbtu/hr shall be installation, maintenance, and operation in accordance with the manufacturer's specifications. These sources shall also be operated and maintained in accordance with good air pollution control practices. [From RACT Approval No. OP 37-313, Condition No. 4]

**# 009 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

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

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

a) In the event that the permittee uses the NOx emission decreases from the modification of Furnaces 18 and/or 19 within five years (from February 4, 2000), the facility shall perform NOx emission testing consistent with the sampling and testing procedures of 25 PA Code Chapter 139. [From Plan Approvals No. PA-37-264C, Condition No. 10 and PA-37-264D,

**SECTION D. Source Level Requirements**

Condition No. 11]

b) In the event that Ellwood Quality Steels Company uses the NOx emission decreases from the modification of the Number 17 furnace within the next five years, the facility shall perform NOx emission testing consistent with the sampling and testing procedures of 25 Pa. Code Chapter 139. [From Plan Approval No. 37-264F, Condition No. 11]

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

**SECTION D. Source Level Requirements**

Source ID: 103

Source Name: SCRAP TORCHING

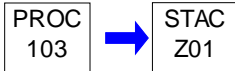
Source Capacity/Throughput:

1.000 MCF/HR

Natural Gas

60.000 Tons/HR

SCRAP STEEL

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

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

b) No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

**Fuel Restriction(s).****# 002 [25 Pa. Code §127.511]****Monitoring and related recordkeeping and reporting requirements.**

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

**Throughput Restriction(s).****# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The total natural gas consumption from the scrap torch (Source 103), gas cutter (Source 104) and the miscellaneous heaters (Source 034) shall not exceed 241,092 MCF of natural gas per year, based on a 12-month rolling total.

[Plan Approval No. 37-264G, Condition No. 1 replaces the previous gas consumption limit of 221,269 MCF of natural gas per year from Plan Approval No. 37-264E, Condition No. 8]

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

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

The permittee shall maintain monthly records of the fuel consumption.

**V. REPORTING REQUIREMENTS.**

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

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The owner and operator of the facility shall install and maintain fuel meters to indicate the natural gas consumption of the furnaces (No. 15, 16, 17, 18, 19 and 20), the boilers (Source 033), the two ladle preheaters (Source 132), the EAF preheater (Source 135), the scrap torch (Source 103), the gas cutter (Source 104), and the miscellaneous heaters (Source 034).

[From Plan Approvals No. PA-37-264B, Condition No. 8; PA-37-264C, Condition No. 24; PA-37-264D, Condition No. 9; 37-264E, Condition No. 23; 36-264F, Condition No. 9]

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

Pursuant to 25 PA Code 129.93(c)(1) of the RACT requirements, RACT for the boilers and other combustion sources with individual rated gross heat inputs less than 20 mmbtu/hr shall be installation, maintenance, and operation in accordance with the manufacturer's specifications. These sources shall also be operated and maintained in accordance with good air pollution control practices.

[From RACT Approval No. OP 37-313, Condition No. 4]

**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: 104

Source Name: GAS CUTTER

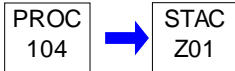
Source Capacity/Throughput:

1.000 MCF/HR

Natural Gas

60.000 Tons/HR

STEEL

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

# 001 [25 Pa. Code §123.21]

**General**

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

b) No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

**Fuel Restriction(s).**

# 002 [25 Pa. Code §127.511]

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

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

**Throughput Restriction(s).**

# 003 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The total natural gas consumption from the scrap torch (Source 103), gas cutter (Source 104) and the miscellaneous heaters (Source 034) shall not exceed 241,092 MCF of natural gas per year, based on a 12-month rolling total.

[Plan Approval No. 37-264G, Condition No. 1 replaces the previous gas consumption limit of 221,269 MCF of natural gas per year from Plan Approval No. 37-264E, Condition No. 8]

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

# 004 [25 Pa. Code §127.511]

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

The permittee shall maintain monthly records of the fuel consumption.

**V. REPORTING REQUIREMENTS.**

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

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The owner and operator of the facility shall install and maintain fuel meters to indicate the natural gas consumption of the furnaces (No. 15, 16, 17, 18, 19 and 20), the boilers (Source 033), the two ladle preheaters (Source 132), the EAF preheater (Source 135), the scrap torch (Source 103), the gas cutter (Source 104), and the miscellaneous heaters (Source 034).

[From Plan Approvals No. PA-37-264B, Condition No. 8; PA-37-264C, Condition No. 24; PA-37-264D, Condition No. 9; 37-264E, Condition No. 23; 36-264F, Condition No. 9]

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

Pursuant to 25 PA Code 129.93(c)(1) of the RACT requirements, RACT for the boilers and other combustion sources with individual rated gross heat inputs less than 20 mmbtu/hr shall be installation, maintenance, and operation in accordance with the manufacturer's specifications. These sources shall also be operated and maintained in accordance with good air pollution control practices.

[From RACT Approval No. OP 37-313, Condition No. 4]

**VII. ADDITIONAL REQUIREMENTS.**

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

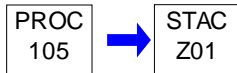
**\*\*\* Permit Shield in Effect. \*\*\***

**SECTION D. Source Level Requirements**

Source ID: 105

Source Name: TEEMING

Source Capacity/Throughput: 76.000 Tons/HR STEEL

**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**

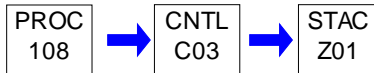
Source ID: 108

Source Name: INGOT GRINDING

Source Capacity/Throughput:

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

**II. TESTING REQUIREMENTS.**

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

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

- (i) The dates of the inspections;
- (ii) Any problems or defects;
- (iii) The actions taken to correct the problem or defects;
- (iv) Any routine maintenance performed; and
- (v) The pressure drop across the control device.

(b) The records shall be kept in an on-site facility log and retained for a period of five (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.****# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The source shall not operate when the control device is not operating.

(b) A magnehelic gauge shall be permanently installed and maintained at a conveniently readable location to indicate the pressure drop across the control device. The pressure drop across the filters shall be maintained in the appropriate

**SECTION D. Source Level Requirements**

pressure drop range, as dictated by the gauge manufacturer.

(c) The facility shall maintain sufficient replacement filters for the baghouse system on-site, or shall have immediate access to spare cartridges in the event of failure.

**# 004 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall install, operate, and maintain the control device in accordance with manufacturer's specifications and good air pollution control practices.

**VII. ADDITIONAL REQUIREMENTS.**

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

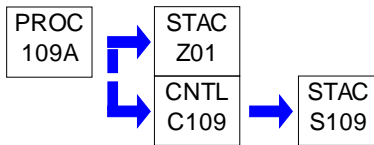
**\*\*\* Permit Shield in Effect. \*\*\***

**SECTION D. Source Level Requirements**

Source ID: 109A

Source Name: ELECTRIC LADLE FURNACE

Source Capacity/Throughput: 76.000 Tons/HR

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

The emission of particulate matter less than 10 microns (PM-10) from the baghouse that controls the two ladle furnaces shall not exceed 4.5 tons per year, based on a 12-month rolling total, and shall not exceed 0.02 lbs/ton of steel.

[Plan Approval No. 37-264G, Condition No. 1 replaces the previous 4.13 tons PM per year from Plan Approval No. 37-264E, Condition No. 17]

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

The permittee shall maintain a rolling total of the natural gas consumption and facility production by adding the monthly totals to the eleven previous months.

[From Plan Approvals No. PA-37-264B, Condition No. 9; PA-37-264C, Condition No. 23; PA-37-264D, Condition No. 10; 37-264E, Condition No. 22; 37-264F, Condition No. 10]

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

- a) The permittee shall maintain a log of all equipment inspections and repairs of this source and control device.
- b) The permittee shall maintain records of the pressure drop across the fabric filter.

**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) A magnahelic guage shall be permanently installed and maintained at a conveniently readable location to indicate the

**SECTION D. Source Level Requirements**

pressure drop across the baghouse. [From Plan Approvals No. PA-37-264C, Condition No. 17 and 37-264E, Condition No. 18]

(b) The owner or operator of the facility shall perform weekly preventive maintenance inspections of the fabric filter and check the pressure drop across the fabric filter. [From Plan Approvals No. PA-37-264C, Condition No. 19 and 37-264E, Condition No. 20]

(c) The ladle furnaces and the baghouse for those furnaces shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices. [From Plan Approvals No. PA-37-264C, Condition No. 19 and 37-264E, Condition No. 20]

(d) The baghouse for the two ladle furnaces shall be operated at all times when either of the ladle furnaces is in operation. [From Plan Approvals No. PA-37-264C, Condition No. 20 and 37-264E, Condition No. 2]

(e) Twenty percent of the total number of bags in the baghouse are required to be kept on hand by the permittee (270 bags). [From Plan Approvals No. PA-37-264C, Condition No. 18 and 37-264E, Condition No. 19]

**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**

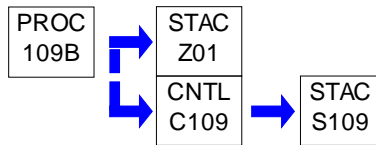
Source ID: 109B

Source Name: ELECTRIC LADLE FURNACE #2

Source Capacity/Throughput:

76.000 Tons/HR

STEEL

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

The emission of particulate matter less than 10 microns (PM-10) from the baghouse that controls the two ladle furnaces shall not exceed 4.5 tons per year, based on a 12-month rolling total, and shall not exceed 0.02 lbs/ton of steel.

[Plan Approval No. 37-264G, Condition No. 1 replaces the previous 4.13 tons PM per year from Plan Approval No. 37-264E, Condition No. 17]

**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 log of all equipment inspections and repairs of this source and control device.
- b) The permittee shall maintain records of the pressure drop across the fabric filter.

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

(a) A magnahelic guage shall be permanently installed and maintained at a conveniently readable location to indicate the pressure drop across the baghouse. [From Plan Approvals No. PA-37-264C, Condition No. 17 and 37-264E, Condition No. 18]

(b) The owner or operator of the facility shall perform weekly preventive maintenance inspections of the fabric filter and check the pressure drop across the fabric filter. [From Plan Approvals No. PA-37-264C, Condition No. 19 and 37-264E, Condition No. 20]

**SECTION D. Source Level Requirements**

(c) The ladle furnaces and the baghouse for those furnaces shall be maintained and operated in accordance with the manufacturer's specifications and in accordance with good air pollution control practices. [From Plan Approvals No. PA-37-264C, Condition No. 19 and 37-264E, Condition No. 20]

(d) The baghouse for the two ladle furnaces shall be operated at all times when either of the ladle furnaces is in operation. [From Plan Approvals No. PA-37-264C, Condition No. 20 and 37-264E, Condition No. 2]

(e) Twenty percent of the total number of bags in the baghouse are required to be kept on hand by the permittee (270 bags). [From Plan Approvals No. PA-37-264C, Condition No. 18 and 37-264E, Condition No. 19]

**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. \*\*\***

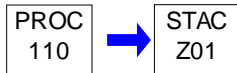
**SECTION D. Source Level Requirements**

Source ID: 110

Source Name: SCRAP HANDLING

Source Capacity/Throughput:

76.000 Tons/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.**

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.**

**# 001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10690]**

**Subpart YYYYY - National Emission Standards for Hazardous Air Pollutants for Area Sources: Electric Arc Furnace Steelmaking Facilities**

**What parts of the General Provisions apply to this subpart?**

(a) You must comply with the requirements of the NESHAP General Provisions (40 CFR part 63, subpart A) as provided in Table 1 of this subpart.

(b) The notification of compliance status required by § 63.9(h) must include each applicable certification of compliance, signed by a responsible official, in paragraphs (b)(1) through (6) of this section.

(1) For the pollution prevention plan requirements in § 63.10685(a)(1): "This facility has submitted a pollution prevention plan for metallic scrap selection and inspection in accordance with § 63.10685(a)(1)";

(2) Not Applicable;

(3) For the mercury requirements in § 63.10685(b):

(i) Not Applicable;

(ii) "This facility participates in and purchases motor vehicle scrap only from scrap providers who participate in a program for removal of mercury switches that has been approved by the EPA Administrator in accordance with § 63.10685(b)(2)" and has prepared a plan demonstrating how the facility participates in the EPA-approved program in accordance with § 63.10685(b)(2)(iv);

(iii) Not Applicable; or

(iv) Not Applicable

**SECTION D. Source Level Requirements**

(4) - (6) See Source 101 Reporting Requirement (63.10690).

**VI. WORK PRACTICE REQUIREMENTS.****# 002 [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?**

(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) Pollution prevention plan . For the production of steel other than leaded steel, you must prepare and implement a pollution prevention plan for metallic scrap selection and inspection to minimize the amount of chlorinated plastics, lead, and free organic liquids that is charged to the furnace. For the production of leaded steel, you must prepare and implement a pollution prevention plan for scrap selection and inspection to minimize the amount of chlorinated plastics and free organic liquids in the scrap that is charged to the furnace. You must submit the scrap pollution prevention plan to the permitting authority for approval. You must operate according to the plan as submitted during the review and approval process, operate according to the approved plan at all times after approval, and address any deficiency identified by the permitting authority within 60 days following disapproval of a plan. You may request approval to revise the plan and may operate according to the revised plan unless and until the revision is disapproved by the permitting authority. You must keep a copy of the plan onsite, and you must provide training on the plan's requirements to all plant personnel with materials acquisition or inspection duties. Each plan must include the information in paragraphs (a)(1)(i) through (iii) of this section:

(i) Specifications that scrap materials must be depleted (to the extent practicable) of undrained used oil filters, chlorinated plastics, and free organic liquids at the time of charging to the furnace.

(ii) A requirement in your scrap specifications for removal (to the extent practicable) of lead-containing components (such as batteries, battery cables, and wheel weights) from the scrap, except for scrap used to produce leaded steel.

(iii) Procedures for determining if the requirements and specifications in paragraph (a)(1) of this section are met (such as visual inspection or periodic audits of scrap providers) and procedures for taking corrective actions with vendors whose shipments are not within specifications.

(iv) The requirements of paragraph (a)(1) of this section do not apply to the routine recycling of baghouse bags or other internal process or maintenance materials in the furnace. These exempted materials must be identified in the pollution prevention plan.

(2) Not Applicable.

(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) Not Applicable.

(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



**SECTION D. Source Level Requirements**

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.
  - (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) Not Applicable.
- (4) Not Applicable.
- (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) Not Applicable.
  - (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.



## SECTION D. Source Level Requirements

(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.

### 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. \*\*\***

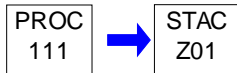
**SECTION D. Source Level Requirements**

Source ID: 111

Source Name: VACUUM DEGASSER

Source Capacity/Throughput:

76.000 Tons/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.**

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**

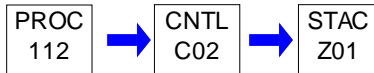
Source ID: 112

Source Name: MOLD GRINDING

Source Capacity/Throughput:

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

**II. TESTING REQUIREMENTS.**

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

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

- (i) The dates of the inspections;
- (ii) Any problems or defects;
- (iii) The actions taken to correct the problem or defects;
- (iv) Any routine maintenance performed; and
- (v) The pressure drop across the control device.

(b) The records shall be kept in an on-site facility log and retained for a period of five (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.****# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The source shall not operate when the control device is not operating.

(b) A magnehelic gauge shall be permanently installed and maintained at a conveniently readable location to indicate the pressure drop across the control device. The pressure drop across the filters shall be maintained in the appropriate

**SECTION D. Source Level Requirements**

pressure drop range, as dictated by the gauge manufacturer.

(c) The facility shall maintain sufficient replacement filters for the baghouse system on-site, or shall have immediate access to spare cartridges in the event of failure.

**# 004 [25 Pa. Code §127.441]**

**Operating permit terms and conditions.**

The permittee shall install, operate, and maintain the control device in accordance with manufacturer's specifications and good air pollution control practices.

**VII. ADDITIONAL REQUIREMENTS.**

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

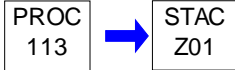
**\*\*\* Permit Shield in Effect. \*\*\***

**SECTION D. Source Level Requirements**

Source ID: 113

Source Name: VEHICLE TRAVEL

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [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 Section C, Condition #001 (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

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

A person responsible for any source specified in Section C, Condition #001 shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.
- (2) Application of asphalt, oil, water or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (3) Paving and maintenance of roadways.
- (4) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.



## 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**

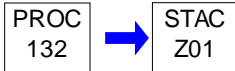
Source ID: 132

Source Name: LADLE PREHEATERS (2)

Source Capacity/Throughput:

11.200 MCF/HR

Natural Gas

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

# 001 [25 Pa. Code §123.21]

**General**

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

b) No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

**Fuel Restriction(s).**

# 002 [25 Pa. Code §127.511]

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

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

**Throughput Restriction(s).**

# 003 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The natural gas consumption from the two ladle preheaters shall not exceed 130,355 MCF of natural gas per year, based on a 12-month rolling total.

[Plan Approval No. 37-264G, Condition No. 1 replaces the previous gas consumption limit of 119,637 MCF of natural gas per year from Plan Approval No. 37-264E, Condition No. 10]

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

# 004 [25 Pa. Code §127.511]

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

The permittee shall maintain monthly records of the fuel consumption.

**V. REPORTING REQUIREMENTS.**

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



**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The owner and operator of the facility shall install and maintain fuel meters to indicate the natural gas consumption of the furnaces (No. 15, 16, 17, 18, 19 and 20), the boilers (Source 033), the two ladle preheaters (Source 132), the EAF preheater (Source 135), the scrap torch (Source 103), the gas cutter (Source 104), and the miscellaneous heaters (Source 034).

[From Plan Approvals No. PA-37-264B, Condition No. 8; PA-37-264C, Condition No. 24; PA-37-264D, Condition No. 9; 37-264E, Condition No. 23; 36-264F, Condition No. 9]

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

Pursuant to 25 PA Code 129.93(c)(1) of the RACT requirements, RACT for the boilers and other combustion sources with individual rated gross heat inputs less than 20 mmbtu/hr shall be installation, maintenance, and operation in accordance with the manufacturer's specifications. These sources shall also be operated and maintained in accordance with good air pollution control practices.

[From RACT Approval No. OP 37-313, Condition No. 4]

**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**

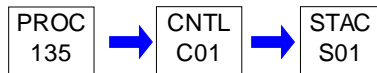
Source ID: 135

Source Name: EAF PRE-HEATER

Source Capacity/Throughput:

6.000 MCF/HR

Natural Gas

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

# 001 [25 Pa. Code §123.21]

**General**

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

b) No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

**Fuel Restriction(s).**

# 002 [25 Pa. Code §127.511]

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

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

**Throughput Restriction(s).**

# 003 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The natural gas consumption from the EAF preheat shall not exceed 41,895 MCF of natural gas per year, based on a 12-month rolling total.

[Plan Approval No. 37-264G, Condition No. 1 replaces the previous gas consumption limit of 38,451 MCF of natural gas per year from Plan Approval No. 37-264E, Condition No. 11]

**II. TESTING REQUIREMENTS.**

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

**III. MONITORING REQUIREMENTS.**

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

**IV. RECORDKEEPING REQUIREMENTS.**

# 004 [25 Pa. Code §127.511]

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

The permittee shall maintain monthly records of the fuel consumption.

**V. REPORTING REQUIREMENTS.**

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

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The owner and operator of the facility shall install and maintain fuel meters to indicate the natural gas consumption of the furnaces (No. 15, 16, 17, 18, 19 and 20), the boilers (Source 033), the two ladle preheaters (Source 132), the EAF preheater (Source 135), the scrap torch (Source 103), the gas cutter (Source 104), and the miscellaneous heaters (Source 034).

[From Plan Approvals No. PA-37-264B, Condition No. 8; PA-37-264C, Condition No. 24; PA-37-264D, Condition No. 9; 37-264E, Condition No. 23; 36-264F, Condition No. 9]

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

Pursuant to 25 PA Code 129.93(c)(1) of the RACT requirements, RACT for the boilers and other combustion sources with individual rated gross heat inputs less than 20 mmbtu/hr shall be installation, maintenance, and operation in accordance with the manufacturer's specifications. These sources shall also be operated and maintained in accordance with good air pollution control practices.

[From RACT Approval No. OP 37-313, Condition No. 4]

**VII. ADDITIONAL REQUIREMENTS.**

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

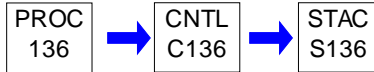
**\*\*\* Permit Shield in Effect. \*\*\***

**SECTION D. Source Level Requirements**

Source ID: 136

Source Name: LIME SILO

Source Capacity/Throughput:

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

# 001 [25 Pa. Code §123.13]

**Processes**

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

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this permit including Section B (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. These records shall, at a minimum, contain the dates of the inspections, any problems or defects, the actions taken to correct the problem or defects, any routine maintenance performed.

**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 monthly preventative maintenance inspection of the control device and associated equipment.
- b) The permittee shall operate and maintain the source and control device in accordance with the manufacturer's specifications and/or good air pollution control practices.

**VII. ADDITIONAL REQUIREMENTS.**

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

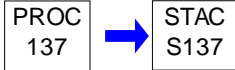
**\*\*\* Permit Shield in Effect. \*\*\***

**SECTION D. Source Level Requirements**

Source ID: 137

Source Name: BACKUP EMERGENCY DIESEL PUMP

Source Capacity/Throughput:

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

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

**What records must I keep?**

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

(1) Not Applicable

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

(3) Not Applicable

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

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

(b) - (d) Not Applicable

(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.

**SECTION D. Source Level Requirements**

(f) If you own or operate any of the stationary RICE in paragraphs (f)(1) or (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 engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.

(1) Not Applicable.

(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.

**# 002 [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).

**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 [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 and operating limitations must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?**

(a) If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart and the operating limitations in Table 1b and Table 2b to this subpart that apply to you.

[Excerpt from Table 2d - Item 4]

Emergency stationary CI RICE shall:

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

Footnote to Table 5 - 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.

**# 004 [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 and operating limitations in this subpart that apply to you at all times.

**SECTION D. Source Level Requirements**

(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.

**# 005 [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) Not applicable

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

(1-2) 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 with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed.

(g) - (h) Not applicable.

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

(j) Not applicable

**# 006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]**

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

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

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

**SECTION D. Source Level Requirements**

[Excerpt from Table 6 - Item 9]

9. Existing Emergency RICE an an Area Source of HAPs complying with the work or management practices must demonstrate continuous compliance by:

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

(b) - (e) Not Applicable.

(f) Requirements for emergency stationary RICE. (1) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, a new or reconstructed emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that was installed on or after June 12, 2006, or an existing emergency stationary RICE located at an area source of HAP emissions, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1)(i) through (iii) of this section. 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)(i) through (iii) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1)(i) through (iii) of this section, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.

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

(ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. 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 year.

(iii) You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph (f)(1)(iii), as long as the power provided by the financial arrangement is limited to emergency power.

(2) Not Applicable.

**VII. ADDITIONAL REQUIREMENTS.**

**# 007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6595]**

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

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



**SECTION D. Source Level Requirements**

(a) Affected sources. (1) If you have an existing stationary RICE, excluding existing non-emergency CI stationary RICE, with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than June 15, 2007. If you have an existing non-emergency CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, an existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than May 3, 2013. If you have an existing stationary SI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary SI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than October 19, 2013.

**# 008 [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.

**# 009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6670]**  
**Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**

**Who implements and enforces this subpart?**

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

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

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

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

**# 010 [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?**

Terms used in this subpart are defined in the Clean Air Act (CAA); in 40 CFR 63.2, the General Provisions of this part; and in this section the definitions can be found in 40 CFR Section 63.6675.

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



**SECTION E. Alternative Operation Requirements.**

No Alternative Operations exist for this Title V facility.

**SECTION F. Emission Restriction Summary.**

Source Id	Source Description			
033	BOILERS (4)			
<b>Emission Limit</b>				<b>Pollutant</b>
0.400	Lbs/MMBTU			PM10
3.000	Lbs/MMBTU	over any 1-hour period		SOX
034	MISC HEATER UNITS (< 2.5 MMBTU/HR)			
<b>Emission Limit</b>				<b>Pollutant</b>
3.000	Lbs/MMBTU	over any 1-hour period		SOX
101	ELECTRIC ARC FURNACE			
<b>Emission Limit</b>				<b>Pollutant</b>
4.600	Lbs/Tons	steel produced		CO
1,035.000	Tons/Yr	12-month rolling total		CO
0.100	Lbs/Tons	steel produced		NOX
22.500	Tons/Yr	12-month rolling total		NOX
0.150	Lbs/Tons	steel produced		PM10
33.750	Tons/Yr	12-month rolling total		PM10
0.450	Lbs/Tons	steel produced		SOX
101.250	Tons/Yr	12-month rolling total		SOX
0.004	gr/DRY FT3			TSP
33.750	Tons/Yr	12-month rolling total		TSP
0.300	Lbs/Tons	steel produced		VOC
67.500	Tons/Yr	12-month rolling total		VOC
102	ANNEAL FURNACES (6)			
<b>Emission Limit</b>				<b>Pollutant</b>
4.600	Tons/Yr	Furnace 17		NOX
65.000	Lbs/MMCF	Furnaces 15, 16, 17, 18, and 19 Only		NOX
500.000	PPMV	dry basis		SOX
103	SCRAP TORCHING			
<b>Emission Limit</b>				<b>Pollutant</b>
500.000	PPMV	dry basis		SOX
104	GAS CUTTER			
<b>Emission Limit</b>				<b>Pollutant</b>
500.000	PPMV	dry basis		SOX
108	INGOT GRINDING			
<b>Emission Limit</b>				<b>Pollutant</b>
0.040	gr/DRY FT3			TSP

**SECTION F. Emission Restriction Summary.**

Source Id	Source Description		
109A	ELECTRIC LADLE FURNACE		
<b>Emission Limit</b>		<b>Pollutant</b>	
0.020	Lbs/Tons	of Steel	PM10
4.500	Tons/Yr	12-month rolling total from both ladle furnaces	PM10
109B	ELECTRIC LADLE FURNACE #2		
<b>Emission Limit</b>		<b>Pollutant</b>	
0.020	Lbs/Tons	of Steel	PM10
4.500	Tons/Yr	12-month rolling total from both ladle furnaces	PM10
112	MOLD GRINDING		
<b>Emission Limit</b>		<b>Pollutant</b>	
0.040	gr/DRY FT3		TSP
132	LADLE PREHEATERS (2)		
<b>Emission Limit</b>		<b>Pollutant</b>	
500.000	PPMV	dry basis	SOX
135	EAF PRE-HEATER		
<b>Emission Limit</b>		<b>Pollutant</b>	
500.000	PPMV	dry basis	SOX
136	LIME SILO		
<b>Emission Limit</b>		<b>Pollutant</b>	
0.040	gr/DRY FT3		TSP

**Site Emission Restriction Summary**

Emission Limit	Pollutant
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**SECTION G. Miscellaneous.**

- a) The Capacity/Throughput numbers listed on Page 4 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 limits in the permit occur in Sections C and D of the permit. They are also summarized for informational purposes only in Section F, Emission Restriction Summary.
- b) Source ID: Department assigned ID number for the source  
Source Name: Department assigned name for the source  
Capacity: The maximum capacity for the source (not a limit)  
Fuel/Material: The fuel/material assigned to SCC for the source  
Schematics:  
FML: Fuel material location  
Comb: Combustion source  
Proc: Process  
CD: Control device  
EP: Emission point  
Pollutants:  
P000: Particulate matter
- c) Source 033 (Boilers - 4) consists of four natural gas-fired Clayton boilers rates at 10.5 mmbtu/hr. They were permitted under GP-37-264 (march 31, 1998). These boilers replaced the 21.7 mmbtu/hr natural gas-fired boiler from the original Title V application.
- d) Source 101 (Electric Arc Furnace) consists of the following:
1. DEC system combustion
  2. Oxyfuel burners (31.1 mmbtu/hr)
  3. Scrap management
- e) Source 102 (Anneal Furnaces - 6) consists of the following:
1. Furnace 15 (Low NOx Burners) (16 mmbtu/hr)
  2. Furnace 16 (Low NOx Burners) (16 mmbtu/hr)
  3. Furnace 17 (Low NOx Burners) (10.8 mmbtu/hr)
  4. Furnace 18 (Low NOx Burners) (17.3 mmbtu/hr)
  5. Furnace 19 (Low NOx Burners) (21.1 mmbtu/hr)
  6. Furnace 20 (Low NOx Burners) (8 mmbtu/hr)
- f) Source 132 (Ladle Preheaters - 2) consists of two (5.8 mmbtu/hr each) ladle preheaters.
- g) Source 135 (EAF Preheater) consists of a 6.21 mmbtu/hr preheater.
- h) There are no applicable emission, operational, testing, monitoring, recordkeeping, or reporting requirements, other than the requirements listed in Section C of this permit, for the following sources:
1. 500 gallon gasoline storage tank
  2. 500 gallon diesel storage tank
  3. 500 gallon kerosene storage tank
  4. 250 gallon emergency diesel tank
- i) This Operating Permit No. 37-00264 was originally issued on August 27, 1997, effective on September 1, 1997, and expires on August 31, 2002. Revision No. 1, issued on November 22, 1999, was an administrative amendment to incorporate new applicable requirements from Plan Approval PA-37-264B (#19 Furnace - Low NOx Burners). Revision No. 2, issued on November 1, 2000, was an administrative amendment to incorporate new applicable requirements from Plan Approvals 37-00264C (Ladle Furnace Baghouse) and 37-00264D (#18 Furnace - Low NOx Burners). Revision No. 3, issued on December 27, 2001, was an administrative amendment to incorporate new requirements from Plan approval 37-00264E (Plant Wide Production Increase). This Operating Permit was reissued on August 30, 2002, effective on August 30, 2002, and expires on July 31, 2007. As part of the renewal process, plan approval 37-264F (#17 Furnace - Low NOx Burners) conditions and RACT OP 37-313 conditions were incorporated. Revision No. 4, issued March 30, 2007, was a minor modification for the increase of the production capacity of the Melt Shop. The plant is permitted to increase production of steel ingots from 413,000 to 415,446 tons per year based on a twelve

**SECTION G. Miscellaneous.**

month rolling average. This Title V Operating Permit No. 37-00264 reissued on September 4, 2007 and expires August 31, 2012.

j) This permit was administratively amended on November 24, 2008 to incorporate Plan Approval No. 37-264G. The plan approval included the following changes: the annual steel production increase, the increase of natural gas consumption, revision of the EAF emission limitations, and the increase of PM-10 for the ladle furnaces. Also with this amendment, testing requirements for CO, NOx, VOC, SOx, PM and PM-10 were incorporated in the operating permit to determine compliance with the emission limits of source 101. Particulate Matter emission restrictions, recordkeeping requirements and work practice requirements were incorporated for Source 108-Ingot Grinding and 112-Mold Grinding through this amendment. The operating permit will continue to expire on August 31, 2012.

k) This permit was renewed on October 11, 2012.

l) This permit was administratively amended on July 22, 2014 to change the responsible official to Michael Morgus - President.



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

