



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

STATE ONLY OPERATING PERMIT

Issue Date: April 16, 2002

Effective Date: May 1, 2002

Expiration Date: April 30, 2007

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

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated.

State Only Permit No: 38-05016

Synthetic Minor

Federal Tax Id - Plant Code: 25-1732845-1

Owner Information

Name: QUAKER ALLOY INC

Mailing Address: 200 E RICHLAND AVE
MYERSTOWN, PA 17067

Plant Information

Plant: QUAKER ALLOY INC / MYERSTOWN

Location: 38 Lebanon County

38803 Myerstown Borough

SIC Code: 3369 Manufacturing - Nonferrous Foundries, Nec

Responsible Official

Name: IAN SADLER

Title: PRESIDENT

Phone: (610) 562 - 7533

Permit Contact Person

Name: MICHAEL E KIMMEL

Title: MAINT SUPT

Phone: (717) 866 - 6511

[Signature] _____

LEIF ERICSON, SOUTHCENTRAL REGION AIR PROGRAM MANAGER



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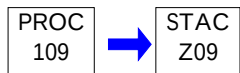
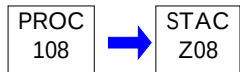
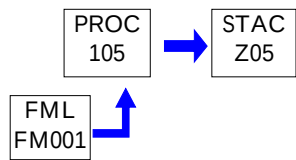
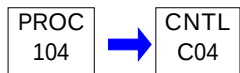
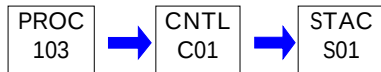
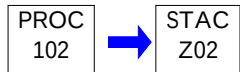
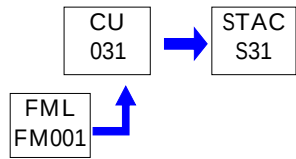
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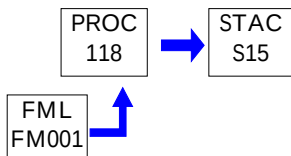
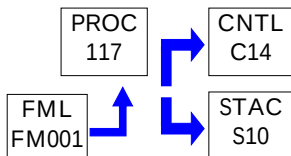
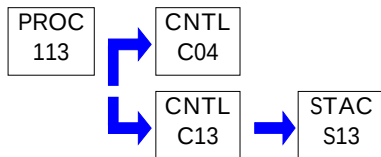
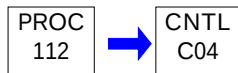
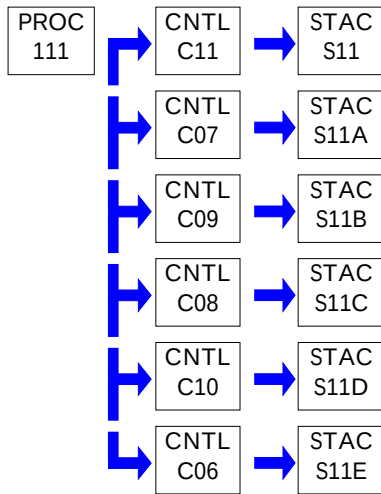


Section A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
031	FACILITY BOILER	8.40 MMBTU/HR	
		8.40 MCF/HR	Natural Gas
101	3 TON ARC FURNACE & AOD VESSEL	3.00 Tons/HR	STEEL
102	3 INDUCTION FURNACES	1.00 Tons/HR	STEEL
103	5 TON ARC FURNACE	5.00 Tons/HR	STEEL
104	NO BAKE MOLD & CORE MAKING	1.00 Tons/HR	SAND BINDER,MIX
105	SHELL SAND MOLD/CORE	0.50 Tons/HR	SHELL SND /BNDR
108	MOLD COATING OPERATIONS	1.00 Tons/HR	ISOPROPANOL
		1.00 Tons/HR	VELVALITE
109	CHARGE HANDLING OPERATION	2.00 Tons/HR	STEEL
110	SAND HANDLING & MULLING	2.30 Tons/HR	SAND
111	CAST CLEANING & FINISHING	3.00 Tons/HR	STEEL CASTINGS
112	NO BAKE POUR, COOL, SHAKE	0.10 Tons/HR	NO BAKE BINDER
113	SHELL SND POUR,COOL,SHAKE	1.00 Tons/HR	SHELL SAND
117	REPLICAST MOLD SYSTEM	0.75 Tons/HR	SAND
118	6 HEAT TREAT FURN. & LG CORE OVEN	42.40 MCF/HR	Natural Gas
C01	BUELL FABRIC COLLECTOR		
C02	WHEELABRATOR (AOD) COLLECTOR		
C04	AAF TYPE N ROTOCONE (SOUTH)		
C06	BUELL D.C. FABRIC COLLECTOR		
C07	STANDARD-HAVEN COLLECTOR		
C08	WHEELABRATOR (#287 / #288 D.C.) COLLECTOR		
C09	PANGBORN COLLECTOR		
C10	WHEELABRATOR (#295 D.C.) COLLECTOR		
C11	BUELL FABRIC COLLECTOR		
C13	WHEELABRATOR (#292 D.C.) COLLECTOR		
C14	MICROPUL BAGHOUSE		
FM001	NATURAL GAS SUPPLY		
S01	BUELL COLLECTOR STACK		
S02	WHEELABRATOR (AOD) STACK		
S10	FIRING FURNACE STACK		
S11	BUELL STACK		
S11A	STANDARD HAVENS STACK		
S11B	PANGBORN STACK		
S11C	WHEELABRATOR (#287 / #288 D.C.) STACK		
S11D	WHEELABRATOR (#295 D.C.) STACK		
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PERMIT MAPS







Section B. General State Only Requirements

#001 [25 Pa. Code § 121.1]

Definitions.

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

#002 [25 Pa. Code § 127.446]

Operating Permit Duration.

(a) This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit.

(b) The terms and conditions of the expired permit shall automatically continue pending issuance of a new operating permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit.

#003 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446 & 127.703(b)&(c)]

Permit Renewal.

(a) The permittee shall submit a timely and complete application for renewal of the operating permit to the appropriate Regional Air Program Manager. The application for renewal of the operating permit shall be submitted at least six (6) months and not more than 18 months before the expiration date of this permit.

(b) The application for permit renewal shall include the current permit number, a description of any permit revisions that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.

(c) The permittee shall submit with the renewal application a fee for the processing of the application and an additional annual administrative fee as specified in 25 Pa. Code § 127.703(b) and (c). The fees shall be made payable to "The Commonwealth of Pennsylvania - Clean Air Fund" and shall be for the amount specified in the following schedule specified in 25 Pa. Code § 127.703(b) and (c).

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

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

(d) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413.

(e) The application for renewal of the operating permit shall also include submission of supplemental compliance review forms in accordance with the requirements of 25 Pa. Code § 127.412(b) and § 127.412(j).

(f) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information as necessary to address any requirements that become applicable to the source after the permittee submits a complete application, but prior to the date the Department takes action on the permit application.

#004 [25 Pa. Code § 127.703]

Operating Permit Fees under Subchapter I.

(a) The permittee shall pay fees according to the following schedule specified in 25 Pa. Code § 127.703(b):

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

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

This fee schedule shall apply to the processing of an application for an operating permit as well as the extension, modification, revision, renewal, and re-issuance of each operating permit or part thereof.

Section B. General State Only Requirements

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

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

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

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

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

#005 [25 Pa. Code §§ 127.450 (a)(4) and 127.464]

Transfer of Operating Permits.

(a) This operating permit may not be transferred to another person, except in cases of transfer-of-ownership that are documented and approved by the Department.

(b) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership of the source shall be treated as an administrative amendment if the Department determines that no other change in the permit is required and a written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee and a compliance review form has been submitted to, and the permit transfer has been approved by, the Department.

(c) This operating permit is valid only for those specific sources and the specific source locations described in this permit.

#006 [25 Pa. Code § 127.441 and 35 P.S. § 4008]

Inspection and Entry.

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

(1) Enter at reasonable times upon the permittee's premises where a source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;

(2) Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;

(3) Inspect at reasonable times, any facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;

(4) Sample or monitor, at reasonable times, any substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.

(b) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act or regulations adopted thereunder including denying the Department access to a source at this facility. Refusal of entry or access may constitute grounds for permit revocation and assessment of criminal and/or civil penalties.

(c) Nothing in this permit condition shall limit the ability of the EPA to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#007 [25 Pa. Code §§ 127.441 & 127.444]

Compliance Requirements.

(a) The permittee shall comply with the conditions of this operating permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one or more of the following:

(1) Enforcement action

(2) Permit termination, revocation and reissuance or modification

Section B. General State Only Requirements

(3) Denial of a permit renewal application

(b) A person may not cause or permit the operation of a source which is subject to 25 Pa. Code Article III unless the source(s) and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued for the source is operated and maintained in accordance with specifications in the applications and the conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to 25 Pa. Code Chapter 127 in a manner inconsistent with good operating practices.

(c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this State-Only permit. Nothing in this sub-condition shall be construed to create an independent affirmative duty upon the permittee to obtain a predetermination from the Department for physical configuration or engineering design detail changes made by the permittee.

#008 [25 Pa. Code § 127.441]

Need to Halt or Reduce Activity Not a Defense.

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

#009 [25 Pa. Code §§ 127.442(a) & 127.461]

Duty to Provide Information.

(a) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of each source at the facility.

(b) The permittee shall furnish to the Department, in writing, information that the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to maintain in accordance with this permit.

#010 [25 Pa. Code § 127.461]

Revising an Operating Permit for Cause.

This operating permit may be modified, revoked, reopened and reissued or terminated for cause if one or more of the following applies:

(a) The permittee constructs or operates the source subject to the operating permit so that it is in violation of the Air Pollution Control Act, the Clean Air Act, the regulations thereunder, a plan approval, a permit or in a manner that causes air pollution.

(b) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.

(c) The permittee has failed to submit a report required by the operating permit or an applicable regulation.

(d) The EPA determines that the permit is not in compliance with the Clean Air Act or the regulations thereunder.

#011 [25 Pa. Code §§ 127.450 & 127.462]

Operating Permit Modifications

(a) The permittee is authorized to make administrative amendments, minor operating permit modifications and significant operating permit modifications, under this permit, as outlined below:

(b) Administrative Amendments. The permittee shall make administrative operating permit amendments (as defined in 25 Pa. Code § 127.450(a)), according to procedures specified in § 127.450 unless precluded by the Clean Air Act or its regulations.

(c) Minor Operating Permit Modifications. The permittee shall make minor operating permit modifications (as defined 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.

Section B. General State Only Requirements

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

#012 [25 Pa. Code § 127.441]

Severability Clause.

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

#013 [25 Pa. Code § 127.449]

De Minimis Emission Increases.

(a) This permit authorizes de minimis emission increases in accordance with 25 Pa. Code § 127.449 so long as the permittee provides the Department with seven (7) days prior written notice before commencing any de minimis emissions increase. The written notice shall:

(1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.

(2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

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

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

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

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

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

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

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

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

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

(1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.

(2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.

(3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code §123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.

(4) Space heaters which heat by direct heat transfer.

Section B. General State Only Requirements

(5) Laboratory equipment used exclusively for chemical or physical analysis.

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

(e) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:

(1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (c)(4) and (5) of this permit condition.

(2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and /or the new source review requirements in Subchapter E.

(3) Violate any applicable requirement of this permit, the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.

(f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.

(g) Except for de minimis emission increases, installation of minor sources made pursuant to this permit condition and Plan Approval Exemptions under 25 Pa. Code § 127.14 (relating to exemptions), the permittee is prohibited from making changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.

(h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

#014 [25 Pa. Code § 127.3]

Operational Flexibility.

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

(1) Section 127.14 (relating to exemptions)

(2) Section 127.447 (relating to alternative operating scenarios)

(3) Section 127.448 (relating to emissions trading at facilities with Federally enforceable emissions caps)

(4) Section 127.449 (relating to de minimis emission increases)

(5) Section 127.450 (relating to administrative operating permit amendments)

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

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

#015 [25 Pa. Code § 127.11]

Reactivation

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

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

**Section B. General State Only Requirements**

127.11a(b).

#016 [25 Pa. Code § 127.36]

Health Risk-based Emission Standards and Operating Practice Requirements.

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

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

#017 [25 Pa. Code § 121.9]

Circumvention.

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

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

Reporting Requirements.

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

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

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

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

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

(e) Any records, reports or information submitted to the Department shall be available to the public except for such records, reports or information which meet the confidentiality requirements of § 4013.2 of the Air Pollution Control Act and §§ 112(d) and 114(c) of the Clean Air Act. The permittee may not request a claim of confidentiality for any emissions data generated for the facility.

#019 [25 Pa. Code §§ 127.441(c) & 135.5]

Sampling, Testing and Monitoring Procedures.

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

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

**Section B. General State Only Requirements**

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

Recordkeeping.

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

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

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

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

#021 [25 Pa. Code § 127.441(a)]

Property Rights.

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

#022 [25 Pa. Code § 127.447]

Alternative Operating Scenarios.

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

**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

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

- (a) Construction or demolition of building or structures.
- (b) Grading, paving and maintenance of roads and streets.
- (c) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.
- (d) Clearing of land.
- (e) Stockpiling of material.
- (f) Open burning operations.
- (g) Sources and classes of sources other than those identified above, for which the operator has obtained a determination from the Department, in accordance with 25 Pa. Code §123.1 (b), that fugitive emissions from the source, after appropriate control, meet the following requirements:
 - (1) The emissions are of minor significance with respect to causing air pollution.
 - (2) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

002 [25 Pa. Code §123.2]

Fugitive particulate matter

No person shall permit the emissions of fugitive particulate matter into the outdoor atmosphere from a source specified in Condition #001 above, if the emissions are visible at the point the emissions pass outside the person's property.

003 [25 Pa. Code §123.31]

Limitations

No person shall 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.

004 [25 Pa. Code §123.41]

Limitations

No person shall permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

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

005 [25 Pa. Code §123.42]

Exceptions

The emission limitation of 25 Pa. Code §123.41 shall not apply when:

- (a) The presence of uncombined water is the only reason for failure of the emission to meet the limitation.

SECTION C. Site Level Requirements

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

(c) The emission results from sources specified in Section C, Condition #001.

006 [25 Pa. Code §123.43]

Measuring techniques

Visible air contaminants may be measured using observers, trained and certified in EPA Method 9, to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee, shall limit the facility's actual VOC emissions to less than 50 tons per year based on any consecutive 12-month rolling period.

008 [25 Pa. Code §129.14]

Open burning operations

(a) No person shall conduct open burning of materials in such a manner that:

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

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

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

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

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

(b) Exceptions. The requirements of Subsection (a) 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 official.

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

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

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

(5) A fire set solely for cooking food.

(c) This permit condition does not constitute authorization to burn solid waste pursuant to Section 610(3) of the Solid Waste Management Act (SWMA), contained at 35 P.S. Section 6018.610(3), or any other provisions of the SWMA.

009 [25 Pa. Code §135.3]

Reporting

(a) The permittee shall submit an annual Air Information System (AIMS) report to the Department. The AIMS report for a given calendar year is due no later than March 1 of the following year, and shall be submitted to the Harrisburg District Supervisor unless otherwise specified.

(b) The permittee may request an extension of time from the Department for filing of the AIMS report specified in part (a),

SECTION C. Site Level Requirements

above, and the Department may grant the extension for reasonable cause.

II. TESTING REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Department reserves the right to require exhaust stack testing of sources as necessary during the permit term to verify emissions for purposes including permit condition violations, emission fees or malfunctioning.

011 [25 Pa. Code §139.1]

Sampling facilities.

Upon the request of the Department, the permittee shall provide adequate sampling ports, safe sampling platforms and adequate utilities for the performance by the Department of tests on such source. The Department will set forth, in the request, the time period in which the facilities shall be provided as well as the specifications for such facilities.

012 [25 Pa. Code §139.11]

General requirements.

(a) As specified in 25 Pa. Code Section 139.11(1), performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.

(b) As specified in 25 Pa. Code Section 139.11(2), the Department will consider test results for approval where sufficient information is provided to verify the source conditions existing at the time of the test and where adequate data is available to show the manner in which the test was conducted. Information submitted to the Department shall include, at a minimum, all of the following:

- (1) A thorough source description, including a description of any air cleaning devices and the flue.
- (2) Process conditions, for example, the fuel firing rate, coil coating line speed, or thermal incinerator temperature, and other conditions which may affect emissions from the process.
- (3) The location of the sampling ports.
- (4) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage CO, CO₂, O₂, and N₂), static and barometric pressures.
- (5) Sample collection techniques employed, including procedures used, equipment descriptions, and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met.
- (6) Laboratory procedures and results.
- (7) Calculated results.

III. MONITORING REQUIREMENTS.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee, shall calculate the facility's emissions of volatile organic compounds (VOCs) on a monthly basis using EPA AP-42 emission factors, manufacturing supplied emission factors, or other method(s) approved by the Department. The monthly VOC emissions shall be summed with the previous 11-months in order to demonstrate compliance with Condition # 007 above.

**SECTION C. Site Level Requirements**

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall conduct a weekly inspection around the plant periphery during daylight hours when the plant is in production to detect visible emissions, fugitive visible emissions and odorous as follows:

- (a) Visible emissions in excess of the limits stated in Section C, Condition #004. Visible emissions may be measured according to the methods specified in Section C, Condition #006, or as an alternative, plant personnel who observe such emissions may report the incidence of visible emissions to the Department within two hours of each incident and make arrangements for a certified observer to verify the visible emissions.
- (b) The presence of visible fugitive emissions beyond the plant property boundaries, as stated in Section C, Condition #002.
- (c) The presence of odorous air contaminants beyond the plant property boundaries as stated in Section C, Condition #003.

IV. RECORDKEEPING REQUIREMENTS.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of the monthly VOC air emissions referenced in Section C, Condition # 013. The permittee shall retain these records for a minimum of five (5) years and be made available to the Department upon request.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of the weekly inspections referenced in Section C, Condition # 014. The records shall include, at a minimum, the following information:

- (1) The name of the company representative monitoring these instances.
- (2) The date and time of the observation.
- (3) The wind direction during each observation.

The permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon request.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of the monthly usage of each fuel consumed for the facility. The permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

018 [25 Pa. Code §127.442]

Reporting requirements.

The permittee shall report malfunctions which occur at this facility to the Department. A malfunction is defined as any sudden, infrequent and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. Malfunctions shall be reported as follows:

- (a) Malfunction which occur at this facility and which pose an imminent danger to the public health, safety, welfare and environment, shall be immediately reported to the Department by telephone. The telephone report of such malfunctions shall occur no later than two hours after the incident. The permittee shall submit a written report of instances of such malfunctions to the Department within three (3) days of the telephone report.
- (b) Unless otherwise required by this permit, any other malfunction that is not subject to the reporting requirements of paragraph (a) above, shall be reported to the Department, in writing, within five (5) days of discovery of the malfunction.

SECTION C. Site Level Requirements**VI. WORK PRACTICE REQUIREMENTS.**

019 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

The permittee shall take all reasonable actions to prevent particulate matter from the sources identified in Section C, Condition #001 from becoming airborne. These actions shall include, but are not limited to, the following:

- (a) 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.
- (b) Application of asphalt, oil, water or suitable chemicals on dirt roads, material stockpiles and other surfaces which create airborne dusts.
- (c) Paving and maintenance of roadways.
- (d) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

020 [25 Pa. Code §127.444]

Compliance requirements.

The permittee shall operate and maintain all sources and any air cleaning devices identified in this operating permit in accordance with the manufacturer's recommendations/specifications, as well as in a manner consistent with good operating practices.

VII. ADDITIONAL REQUIREMENTS.

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

VIII. COMPLIANCE CERTIFICATION.

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

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

SECTION D. Source Level Requirements

Source ID: 031

Source Name: FACILITY BOILER

Source Capacity / Throughput:

8.40 MMBTU / HR

8.40 MCF / HR

Natural Gas



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.11]

Combustion units

No person shall permit the emission into the outdoor atmosphere of particulate matter, from the above boiler, in excess of 0.4 pound per million Btu of heat input.

002 [25 Pa. Code §123.22]

Combustion units

No person shall permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from the above boiler in excess of the rate of 4.0 pounds per million Btu of heat input, over any 1-hour period.

[Compliance with the requirements specified in this streamlined permit condition assures compliance with the SIP-approved sulfur dioxide emission limit specified in 40 CFR 52.2020(c)(1)]

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The above boiler shall be operated on natural gas only.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.**

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 101

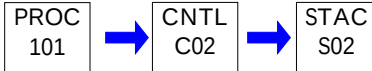
Source Name: 3 TON ARC FURNACE & AOD VESSEL

Source Capacity / Throughput:

3.00 Tons / HR

STEEL

This source occurs in the following groups: GROUP 001

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

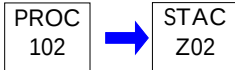
Source ID: 102

Source Name: 3 INDUCTION FURNACES

Source Capacity / Throughput:

1.00 Tons / HR

STEEL

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 103

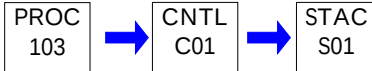
Source Name: 5 TON ARC FURNACE

Source Capacity / Throughput:

5.00 Tons / HR

STEEL

This source occurs in the following groups: GROUP 001

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

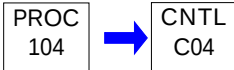
Source ID: 104

Source Name: NO BAKE MOLD & CORE MAKING

Source Capacity / Throughput:

1.00 Tons / HR

SAND BINDER,MIX

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

001 [25 Pa. Code §123.13]

Processes

No person shall permit the emission into the outdoor atmosphere of particulate matter from the above source, in such a manner, that the concentration of particulate matter in the effluent gas exceeds 0.04 gr / dscf.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

Source ID: 105

Source Name: SHELL SAND MOLD / CORE

Source Capacity / Throughput:

0.50 Tons / HR

SHELL SND / BNDR

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

001 [25 Pa. Code §123.21]

General

No person shall permit the emission into the outdoor atmosphere of sulfur oxides from any source, in such a manner that the concentration of sulfur oxides, expressed as sulfur dioxide, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

[Compliance with the requirements specified in this streamlined permit condition assures compliance with the SIP-approved sulfur dioxide emission limit specified in 40 CFR 52.2020(c)(1)]

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

Source ID: 108

Source Name: MOLD COATING OPERATIONS

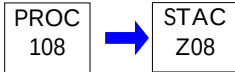
Source Capacity / Throughput:

1.00 Tons / HR

ISOPROPANOL

1.00 Tons / HR

VELVALITE

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

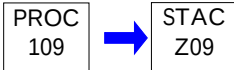
Source ID: 109

Source Name: CHARGE HANDLING OPERATION

Source Capacity / Throughput:

2.00 Tons / HR

STEEL

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

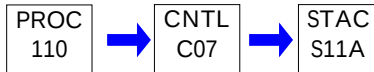
Source ID: 110

Source Name: SAND HANDLING & MULLING

Source Capacity / Throughput:

2.30 Tons / HR

SAND

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

001 [25 Pa. Code §123.13]

Processes

No person shall permit the emission into the outdoor atmosphere of particulate matter from the above sand handling operations, at any time, either in excess of the rate calculated by the formula below or in such a manner that the concentration of particulate matter in the effluent gas exceeds .02 grains per dry standard cubic foot, whichever is greater:

Iron foundry:

Sand handling -- Process Factor, F (in pounds per ton) = 20 (sand)

Formula:

$$A = .76E^{(0.42)}$$

where:

A = Allowable emissions in pounds per hour.

E = Emission index = F x W pounds per hour.

F = Process factor in pounds per unit, and

W = Production or charging rate in units per hour.

The units for F and W shall be compatible.

Note: For a rated throughput of 2.3 tons/hr of sand, the allowable emissions (A) would be 3.79 lbs/hr or .090 gr/dscf.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In order to assure compliance with the requirement of Condition #001 above, the permittee shall be required to perform the following:

(1) Monitor and record the pressure drop across the fabric filter and wet scrubber associated with the above source on a weekly basis. The permittee shall review each reading with the manufacturer's suggested pressure drop operating range. In the event the pressure drop reading is not within the manufacturer's recommended operating range, the permittee shall take corrective actions to return the operations of the control device to within the recommended range.

(2) Each reading shall be entered in a logbook indicating the date and time the reading was taken, the name of the company representative taking the reading, and any corrective actions or maintenance performed. The logbook shall be maintained at

**SECTION D. Source Level Requirements**

the facility for a period of five (5) years and be made available to the Department upon request.

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

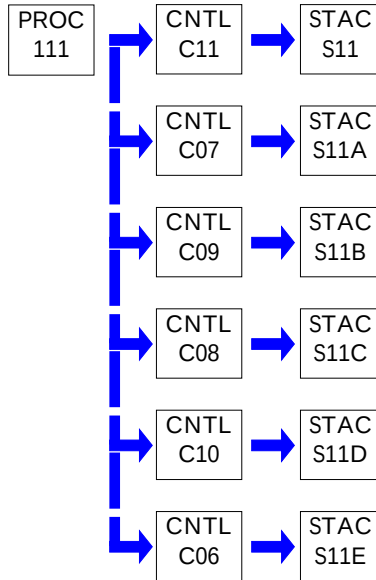
Source ID: 111

Source Name: CAST CLEANING & FINISHING

Source Capacity / Throughput:

3.00 Tons / HR

STEEL CASTINGS



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

No person shall permit the emission into the outdoor atmosphere of particulate matter from each of the above fabric collectors, in such a manner, that the concentration of particulate matter in the effluent gas exceeds 0.04 gr / dscf.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In order to assure compliance with the requirement of Condition #001 above, the permittee shall be required to perform the following:

(1) Monitor and record the pressure drop across each of the above fabric collectors on a weekly basis. The permittee shall review each reading with the manufacturer's suggested pressure drop operating range. In the event the pressure drop reading is not within the manufacturer's recommended operating range, the permittee shall take corrective actions to return the operations of the fabric filter(s) to within the recommended range.

(2) Each reading shall be entered in a logbook indicating the date and time the reading was taken, the name of the company representative taking the reading, and any corrective actions or maintenance performed. The logbook shall be maintained at the facility for a period of five (5) years and be made available to the Department upon request.

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.**

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 112

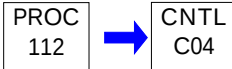
Source Name: NO BAKE POUR, COOL, SHAKE

Source Capacity / Throughput:

0.10 Tons / HR

NO BAKE BINDER

This source occurs in the following groups: GROUP 002

**I. RESTRICTIONS.**

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

Source ID: 113

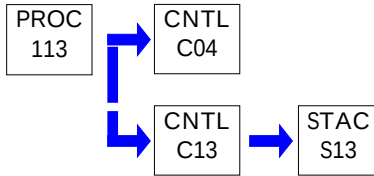
Source Name: SHELL SND POUR,COOL,SHAKE

Source Capacity / Throughput:

1.00 Tons / HR

SHELL SAND

This source occurs in the following groups: GROUP 002

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

001 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for the following condition is derived from operating permit number 38-307-020E]

The powder burning booth shall not be operated simultaneously with the two carbon arc burning stations.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

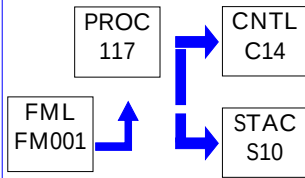
Source ID: 117

Source Name: REPLICAST MOLD SYSTEM

Source Capacity / Throughput:

0.75 Tons / HR

SAND

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

001 [25 Pa. Code §123.13]

Processes

[Additional authority for this permit condition is derived from plan approval number 38-05016A].

No person shall permit the emission into the outdoor atmosphere of particulate matter from the above fabric collector, in such a manner, that the concentration of particulate matter in the effluent gas exceeds 0.02 gr / dscf.

002 [25 Pa. Code §123.21]

General

No person shall permit the emission into the outdoor atmosphere of sulfur oxides from the above firing furnace, in such a manner that the concentration of sulfur oxides, expressed as sulfur dioxide, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

[Compliance with the requirements specified in this streamlined permit condition assures compliance with the SIP-approved sulfur dioxide emission limit specified in 40 CFR 52.2020(c)(1)]

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for the following permit conditions is derived from plan approval number 38-05016A].

- a) The permittee shall operate and maintain a device to measure the pressure drop across the fabric filter.
- b) The afterburner shall be operated and maintained in accordance with the manufacturer's specifications.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In order to assure compliance with the requirement of Condition #001 above, the permittee shall be required to perform the following:

(1) Monitor and record the pressure drop across the fabric collector on a weekly basis. The permittee shall review each reading with the manufacturer's suggested pressure drop operating range. In the event the pressure drop reading is not within the manufacturer's recommended operating range, the permittee shall take corrective actions to return the operations of the fabric filter to within the recommended range.

(2) Each reading shall be entered in a logbook indicating the date and time the reading was taken, the name of the company

**SECTION D. Source Level Requirements**

representative taking the reading, and any corrective actions or maintenance performed. The logbook shall be maintained at the facility for a period of five (5) years and be made available to the Department upon request.

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION D. Source Level Requirements**

Source ID: 118

Source Name: 6 HEAT TREAT FURN. & LG CORE OVEN

Source Capacity / Throughput:

42.40 MCF / HR

Natural Gas

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

001 [25 Pa. Code §123.13]

Processes

No person shall permit the emission into the outdoor atmosphere of particulate matter from each of the above sources, in such a manner, that the concentration of particulate matter in the effluent gas exceeds 0.04 gr / dscf.

002 [25 Pa. Code §123.21]

General

No person shall permit the emission into the outdoor atmosphere of sulfur oxides from any source, in such a manner that the concentration of sulfur oxides, expressed as sulfur dioxide, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

[Compliance with the requirements specified in this streamlined permit condition assures compliance with the SIP-approved sulfur dioxide emission limit specified in 40 CFR 52.2020(c)(1)]

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

**SECTION D. Source Level Requirements****VII. ADDITIONAL REQUIREMENTS.**

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

**SECTION E. Source Group Restrictions.**

Group Name: GROUP 001

Group Description: Furnaces

Sources included in this group:

ID	Name
101	3 TON ARC FURNACE & AOD VESSEL
103	5 TON ARC FURNACE

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

001 [25 Pa. Code §123.13]

Processes

No person shall permit the emission into the outdoor atmosphere of particulate matter from each of the above furnaces, at any time, either in excess of the rate calculated by the formula below or in such a manner that the concentration of particulate matter in the effluent gas exceeds .02 grains per dry standard cubic foot, whichever is greater:

Iron foundry:

Melting -- Process Factor, F (in pounds per ton) = 150 (iron)

Formula:

$$A = .76E^{(0.42)}$$

where:

A = Allowable emissions in pounds per hour.

E = Emission index = F x W pounds per hour.

F = Process factor in pounds per unit, and

W = Production or charging rate in tons per hour.

The units for F and W shall be compatible.

Note: For a rated capacity of 5.0 tons/hr (Arc Furnace "F"), the allowable emissions (A) would be 12.26 lbs/hr or .057 gr/dscf.

Note: For a rated capacity of 3.0 tons/hr (Arc Furnace "C"), the allowable emissions (A) would be 17.12 lbs/hr or .033 gr/dscf.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In order to assure compliance with the requirement of Condition #001 above, the permittee shall be required to perform the following:

(1) Monitor and record the pressure drop across the fabric collectors associated with the above sources on a weekly basis. The permittee shall review each reading with the manufacturer's suggested pressure drop operating range. In the event the pressure drop reading is not within the manufacturer's recommended operating range, the permittee shall take corrective actions to return the operations of the fabric filters to within the recommended range.

(2) Each reading shall be entered in a logbook indicating the date and time the reading was taken, the name of the company representative taking the reading, and any corrective actions or maintenance performed. The logbook shall be maintained at the facility for a period of five (5) years and be made available to the Department upon request.

**SECTION E. Source Group Restrictions.****IV. RECORDKEEPING REQUIREMENTS.**

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

**SECTION E. Source Group Restrictions.**

Group Name: GROUP 002

Group Description: Sand Shakeout

Sources included in this group:

ID	Name
112	NO BAKE POUR, COOL, SHAKE
113	SHELL SND POUR,COOL,SHAKE

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

001 [25 Pa. Code §123.13]

Processes

No person shall permit the emission into the outdoor atmosphere of particulate matter from each of the above shakeout operations, at any time, either in excess of the rate calculated by the formula below or in such a manner that the concentration of particulate matter in the effluent gas exceeds .02 grains per dry standard cubic foot, whichever is greater:

Iron foundry:

Shakeout -- Process Factor, F (in pounds per ton) = 20 (sand)

Formula:

$$A = .76E^{(0.42)}$$

where:

A = Allowable emissions in pounds per hour.

E = Emission index = F x W pounds per hour.

F = Process factor in pounds per unit, and

W = Production or charging rate in units per hour.

The units for F and W shall be compatible.

Note: For a rated capacity of 2.0 tons / hr (Green Sand Shakeout), the allowable emissions (A) would be 3.58 lbs / hr or .077 gr / dscf.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

In order to assure compliance with the requirement of Condition #001 above, the permittee shall be required to perform the following:

(1) Monitor and record the pressure drop across the fabric collector and wet scrubber associated with the above sources on a weekly basis. The permittee shall review each reading with the manufacturer's suggested pressure drop operating range. In the event the pressure drop reading is not within the manufacturer's recommended operating range, the permittee shall take corrective actions to return the operations of the fabric filters to within the recommended range.

(2) Each reading shall be entered in a logbook indicating the date and time the reading was taken, the name of the company representative taking the reading, and any corrective actions or maintenance performed. The logbook shall be maintained at the facility for a period of five (5) years and be made available to the Department upon request.

**SECTION E. Source Group Restrictions.****IV. RECORDKEEPING REQUIREMENTS.**

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this State Only facility.



SECTION G. Emission Restriction Summary.

No emission restrictions listed in this section of the permit.

**SECTION H. Miscellaneous.**

Source ID# 117 - Replicast Mold System - consists of the following sources:

- (1) Sand Storage Bin *
- (1) Sand Elevator *
- (2) Slurry Tanks
- (2) Slurry Mixers
- (1) Compaction Table
- (1) Electric Drying Oven
- (1) Small Oscillating Pan *
- (1) Firing Furnace w / Afterburner *

* These sources are controlled by a Micropul Baghouse Model No. 74H503.

Source ID# 110 - Sand Handling and Mulling- consists of the following sources:

- (1) Pneumatic Conveyor Sand Storage Bin
- (1) Oscillating Conveyor
- (1) Conveyor-to-Screen Transfer Area
- (1) Return Elevator
- (1) Sand Screen
- (1) Loading Plenum
- (2) Fines Control Areas
- (2) Main Relaimer Units
- (6) Sandmill Bins & Transfer Hoods

Source ID# 111- Cleaning & Finishing Operations - consist of the following sources:

- (1) Small Tumbleblast Station
- (1) Large Tumbleblast Station
- (2) Sand Silos
- (1) Swing Frame Grinder
- (2) Snag Grinders
- (12) Hand Grinders
- (1) Fox Abrasive Cut-Off Saw
- (1) Sand Storage Tank (controlled by Dynamic Air Filter)

The above sources are controlled by the Standard Havens Baghouse #286.

- (1) Jet Arc Booth
- (7) Welding Stations

The above sources are controlled by a Buell Baghouse #294

- (1) Wheelabrator Tumbleblast
- (1) Pangborn Handblast
- (5) Handgrinders
- (3) Chippers
- (1) Swing Grinder
- (1) Swing Cut-Off (#288)

The above sources are controlled by the Buell Fabric Filter #299B

- (2) Carbon Arc Burning Stations
- (1) Powder Burning Station
- (1) Fox Swing Cut-Off
- (1) Fox Swing Grinder
- (1) Tabor Cut-Off
- (1) Zero Handblast Cabinet
- (5) Arc Welders
- (1) Mold Pouring Station

**SECTION H. Miscellaneous.**

- (1) Fox Stand Grinder
- (1) Setco Snag Grinder Station

The above sources are controlled by a Wheelabrator Fabric Filter # 292

- (2) Carbon Arc Burning Stations
- (1) Environmetal Burning Station

The above sources are controlled by a Wheelabrator Fabric Filter #295

- (2) Powder Burning Stations

The above sources are controlled by a Wheelabrator Fabric Filter #287 / #288.

- (1) Pangborn Turntable Rotoblast (steel shot cleaning of slag)

The above source is controlled by a Pangborn Fabric Filter #283

Source ID# 105 - Shell Mold / Coremaking operations consists of the following:

- (2) Four-Station Work Tables
- (6) Bonding Stations
- (6) Work Tables
- (3) Stripping Stations
- (3) Shell Molding Machines w/ associated heater

The above sources are vented indoors.

Source ID# 104 - No Bake Mold / Core operations consists of the following sources:

- (1) Induction Conveyor Tunnel
- (4) Sand Storage Bins
- (2) Reclaim Sand Bins
- (1) Mold Shake-Out

The above sources are controlled by a Rotoclone Wet Scrubber (South)

The following is a list of permits that were previously issued to Quaker Alloy:

38-307-031G
38-307-001B
38-307-020E
38-307-016D
38-307-028A
38-307-005C
38-323-003
38-307-039
38-307-012G
38-307-033D
38-307-029C
38-307-013A
38-307-024A
38-323-005
38-307-015C
38-05016 (Plan Approval)
38-05016A (Plan Approval)
38-05016B (Plan Approval)



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