COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

STATE ONLY SYNTHETIC MINOR OPERATING PERMIT

Issue Date:	June 9, 2020	Effective Date:	April 17, 2023
Revision Date:	April 17, 2023	Expiration Date:	May 31, 2025
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 unless otherwise designated.

State Only Permit No: 20-00040
Synthetic Minor
Federal Tax Id - Plant Code: 25-1607691-1

Owner Information

Name: ADVANCED CAST PROD INC
Mailing Address: 18771 MILL ST
MEADVILLE, PA 16335-3644

Plant Information

Plant: ADVANCED CAST PRODUCTS/MEADVILLE
Location: 20 Crawford County 20945 Vernon Township
SIC Code: 3321 Manufacturing - Gray And Ductile Iron Foundries

Responsible Official

Name: PATRICK CURRY
Title: PLANT MANAGER
Phone: (814) 724 - 2600 Ext.5202 Email: patrick.curry@grede.com

Permit Contact Person

Name: JEFFREY VANSICKLE
Title: EHS MANAGER
Phone: (814) 724 - 2600 Ext.5302 Email: jeffrey.vansickle@grede.com

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

SECTION A. Table of Contents

SECTION A. Table of Contents

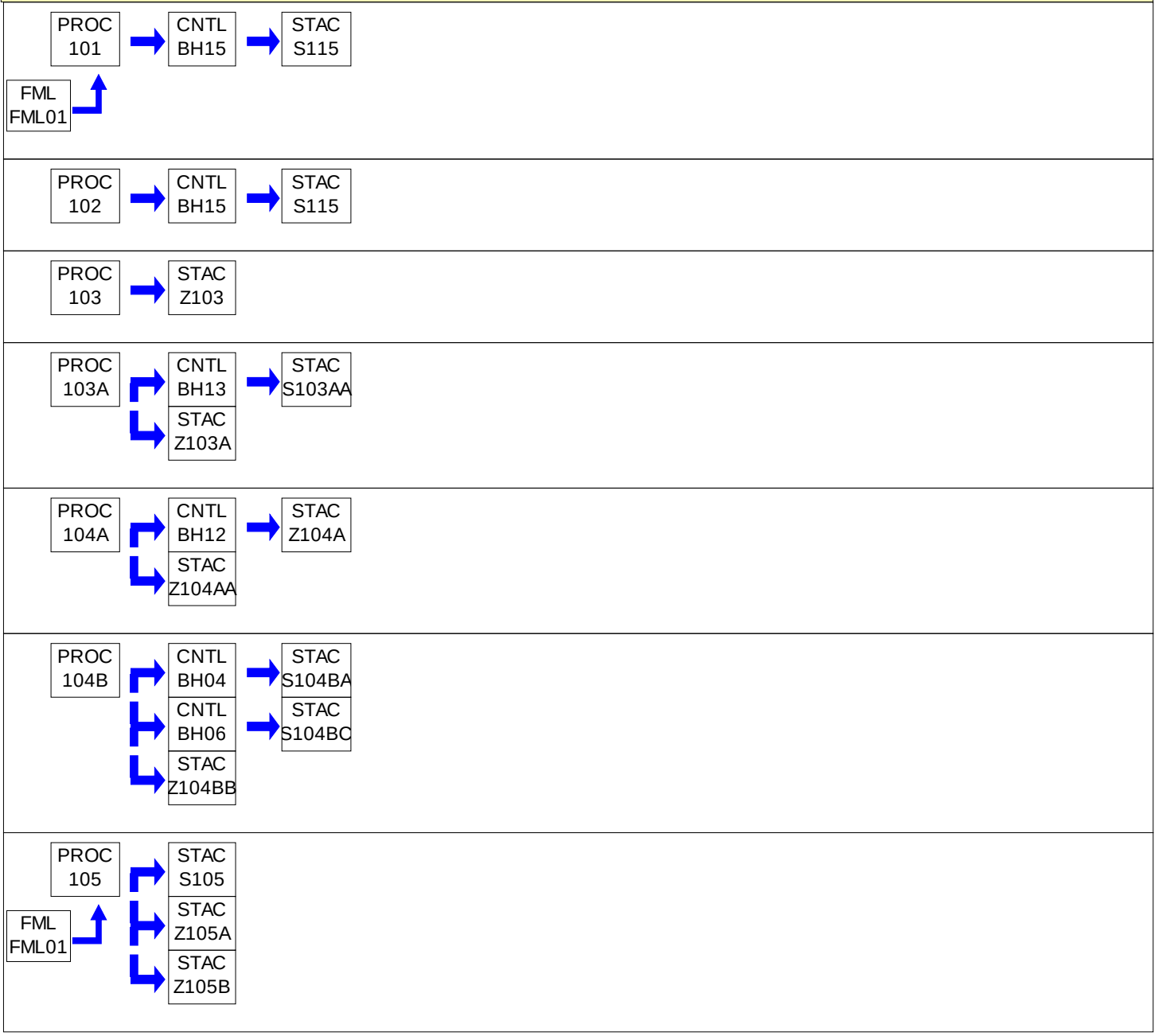
SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput		Fuel/Material
101	CHARGE & PREHEATING	12.000	Tons/HR	METAL
		6.000	MCF/HR	Natural Gas
102	MELTING-TRANSFER-MAG TREA	12.000	Tons/HR	METAL
		12.000	Tons/HR	METAL
103	POURING-COOLING-SHAKEOUT (103 & 103A)	12.000	Tons/HR	IRON
103A	DISA MATCH CASTING LINE (POURING/COOLING/SHAKEOUT)			
104A	NEW GRINDING & GOFF	12.000	Tons/HR	METAL CHARGED
104B	GRINDING & CLEANING			
105	SHELL CORE AND CORE DRYING	3.000	Tons/HR	CORE PRODUCTS
		3.000	Tons/HR	CORE PRODUCTS
106	SAND HANDLING	88.000	Tons/HR	SAND
106AA	BOND SILO			
107	HEAT TREATING-AUSTEMPER OPERATION	0.100	MCF/HR	NATURAL GAS
109	AIR MAKE-UP UNITS (3)	15.000	MCF/HR	Natural Gas
110	MISC NAT GAS USAGE	14.000	MCF/HR	Natural Gas
111	TWO DEGREASER UNITS		N/A	PETROLEUM SOLVENT
114	NON-EMERGENCY GENERATORS	82.900	Gal/HR	Diesel Fuel
BH02	FOUNDRY BAGHOUSE			
BH04	WEST CLEANING MACHINE BH (N)			
BH06	EAST CLEANING MACHINE BH (S)			
BH12	NEW GRINDING BAGHOUSE (BH-12)			
BH13	DISA MATCH CASTING LINE BAGHOUSE			
BH15	MELT BAGHOUSE			
C106AA	BOND SILO BIN VENT			
C114	DIESEL OXIDATION CATALYSTS			
FML01	NATURAL GAS MAIN			
FML02	DIESEL FUEL TANK			
S103AA	DISA MATCH CASTING LINE STACK			
S104BA	EAST CLEANING MACHINE BAGHOUSE			
S104BC	WEST CLEANING MACHINE BAGHOUSE			
S105	TWO STACKS FOR CORE DRYING OVENS			
S106AA	BOND SILO TORIT BAGHOUSE STACK			
S107B	HEAT TREATING-AUSTEMPER			
S114A	STACK FROM NON-EMERGENCY GENERATORS			
S115	MELT BAGHOUSE STACK			
ST106A	STACK FOR FOUNDRY BAGHOUSE			
Z103	ROOF EXHAUSTER FUGITIVE STACK			
Z103A	ROOF EXHAUSTERS AS FUGITIVE STACK			
Z104A	N. CLEANING MACHINE			
Z104AA	FUGITIVES FROM ROOF EXTRACTOR			

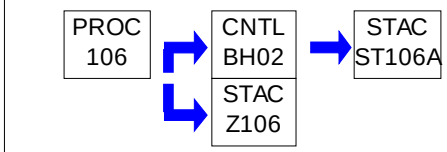
SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
Z104BB	FUGITIVES FROM ROOF EXTRACTOR		
Z105A	CORE OVEN EXHAUST FAN		
Z105B	RESIN CORE VENTS		
Z106	WALL & ROOF FANS AS FUGITIVE STACK		
Z109	AIR MAKEUP UNITS		
Z110	NATURAL GAS USE		
Z111	FUGITIVES FROM DEGREASERS		

PERMIT MAPS



PERMIT MAPS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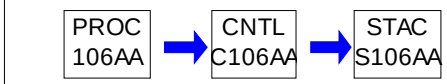
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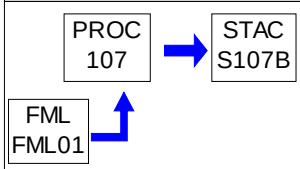
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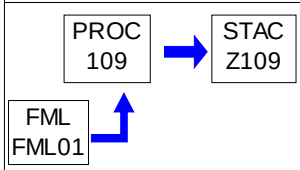
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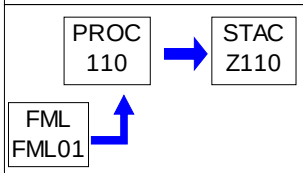
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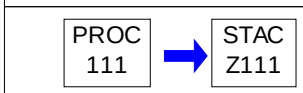
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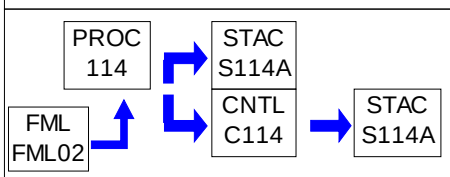
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SECTION B. General State Only Requirements

#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)]

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 as specified in 25 Pa. Code § 127.703(b). The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.

(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 the annual operating permit maintenance fee according to the following fee schedule in either paragraph (1) or (2) in accordance with 25 Pa. Code § 127.703(d) on or before December 31 of each year for the next calendar year.

(1) For a synthetic minor facility, a fee equal to:

(i) Four thousand dollars ($4,000) for calendar years 2021—2025.

(ii) Five thousand dollars ($5,000) for calendar years 2026—2030.

(iii) Six thousand three hundred dollars ($6,300) for the calendar years beginning with 2031.

SECTION B. General State Only Requirements

(2) For a facility that is not a synthetic minor, a fee equal to:

(i) Two thousand dollars ($2,000) for calendar years 2021—2025.

(ii) Two thousand five hundred dollars ($2,500) for calendar years 2026—2030.

(iii) Three thousand one hundred dollars ($3,100) for the calendar years beginning with 2031.

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

#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:

SECTION B. General State Only Requirements

(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 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 terminated, modified, suspended or revoked and reissued if one or more of the following applies:

(1) 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.

(2) 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.

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

(4) 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, 127.465 & 127.703]

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:

SECTION B. General State Only Requirements

(b) Administrative Amendments. The permittee shall submit the application for 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 submit the application for minor operating permit modifications (as defined 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.

(d) Significant Operating Permit Modifications. The permittee shall submit the application for significant operating permit modifications in accordance with 25 Pa. Code § 127.465.

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

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

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

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

SECTION B. General State Only Requirements

(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.

(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)

SECTION B. General State Only Requirements

(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 § 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

SECTION B. General State Only Requirements

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.

#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 B. General State Only Requirements

#023 [25 Pa. Code §135.3]

Reporting

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

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

#024 [25 Pa. Code §135.4]

Report Format

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

SECTION C. Site Level Requirements

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

(a) No person may permit the emission into the outdoor atmosphere of a 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) - (8) [Do not apply]

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

(i) The emissions are of minor significance with respect to causing air pollution.

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

(b) An application form for requesting a determination under either subsection (a)(9) or § 129.15(c) is available from the Department. In reviewing these applications, the Department may require the applicant to supply information including, but not limited to, a description of proposed control measures, charac-teristics of emissions, quantity of emissions and ambient air quality data and analysis showing the impact of the source on ambient air quality. The applicant is required to demonstrate that the requirements of subsections (a)(9) and (c) and § 123.2 [Condition #002, below] (relating to fugitive particulate matter) or of the requirements of § 129.15(c) have been satisfied. Upon such demonstration, the Department will issue a determination, in writing, either as an operating permit condition, for those sources subject to permit requirements under the act, or as an order containing appropriate conditions and limitations.

(c) [Printed under Work Practice Requirements in this section of permit.]

(d) [Does not apply]

 # 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 § 123.1(a)(1)—(9) [Condition #001, above] (relating to prohibition of certain fugitive emissions) if the emissions are visible at the point the emissions pass outside the person's property.

 # 003 [25 Pa. Code §123.31]

Limitations

(a) [Printed under Work Practice Requirements in this section of permit.]

(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.

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(c) [Does not apply]

 # 004 [25 Pa. Code §123.41]

Limitations

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

(1) Equal to or greater than 20% for a period or periods aggregating more than 3 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 § 123.41 [Condition #004, above] (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 § 123.1 (a)(1)—(9) [Condition #001, above] (relating to prohibition of certain fugitive emissions).

(4) [Does not apply]

 # 006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10895]

Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources

What are my standards and management practices?

[From 40 CFR §63.10895(c)-(e):]

(c) You must not discharge to the atmosphere emissions from any metal melting furnace or group of all metal melting furnaces that exceed the applicable limit in paragraph (c)(1) or (2) of this section. When an alternative emissions limit is provided for a given emissions source, you are not restricted in the selection of which applicable alternative emissions limit is used to demonstrate compliance.

(1) For an existing iron and steel foundry, 0.8 pounds of particulate matter (PM) per ton of metal charged or 0.06 pounds of total metal HAP per ton of metal charged.

(2) [Does not apply]

(d) [Does not apply]

(e) If you own or operate a new or existing iron and steel foundry, you must not discharge to the atmosphere fugitive emissions from foundry operations that exhibit opacity greater than 20 percent (6-minute average), except for one 6-minute average per hour that does not exceed 30 percent.

Throughput Restriction(s).

 # 007 Elective Restriction

The permittee shall limit metal processed in Sources 103 and 103A to 30,000 tons per year on a 12-month rolling total.

SECTION C. Site Level Requirements

II. TESTING REQUIREMENTS.

 # 008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

 # 009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10898]

Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources

What are my performance test requirements?

(a) You must conduct a performance test to demonstrate initial compliance with the applicable emissions limits for each metal melting furnace or group of all metal melting furnaces that is subject to an emissions limit in §63.10895(c) and for each building or structure housing foundry operations that is subject to the opacity limit for fugitive emissions in §63.10895(e). You must conduct the test within 180 days of your compliance date and report the results in your notification of compliance status.

(1) If you own or operate an existing iron and steel foundry, you may choose to submit the results of a prior performance test for PM or total metal HAP that demonstrates compliance with the applicable emissions limit for a metal melting furnace or group of all metal melting furnaces provided the test was conducted within the last 5 years using the methods and procedures specified in this subpart and either no process changes have been made since the test, or you can demonstrate that the results of the performance test, with or without adjustments, reliably demonstrate compliance with the applicable emissions limit despite such process changes.

(2) If you own or operate an existing iron and steel foundry and you choose to submit the results of a prior performance test according to paragraph (a)(1) of this section, you must submit a written notification to the Administrator of your intent to use the previous test data no later than 60 days after your compliance date. The notification must contain a full copy of the performance test and contain information to demonstrate, if applicable, that either no process changes have been made since the test, or that the results of the performance test, with or without adjustments, reliably demonstrate compliance despite such process changes.

(3) If you have an electric induction furnace equipped with an emissions control device at an existing foundry, you may use the test results from another electric induction furnace to demonstrate compliance with the applicable PM or total metal HAP emissions limit in §63.10895(c) provided the furnaces are similar with respect to the type of emission control device that is used, the composition of the scrap charged, furnace size, and furnace melting temperature.

(4) - (5) [Do not apply]

(b) You must conduct subsequent performance tests to demonstrate compliance with all applicable PM or total metal HAP emissions limits in §63.10895(c) for a metal melting furnace or group of all metal melting furnaces no less frequently than every 5 years and each time you elect to change an operating limit or make a process change likely to increase HAP emissions.

(c) You must conduct each performance test according to the requirements in §63.7(e)(1), Table 1 to this subpart, and paragraphs (d) through (g) of this section.

(d) To determine compliance with the applicable PM or total metal HAP emissions limit in §63.10895(c) for a metal melting furnace in a lb/ton of metal charged format, compute the process-weighted mass emissions (Ep) for each test run using Equation 1 of this section.

[Refer to Equation 1 in 40 CFR 63.10898]

(e) To determine compliance with the applicable emissions limit in §63.10895(c) for a group of all metal melting furnaces using emissions averaging,

(1) Determine and record the monthly average charge rate for each metal melting furnace at your iron and steel foundry for the previous calendar month; and

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(2) Compute the mass-weighted PM or total metal HAP using Equation 2 of this section.

[Refer to Equation 2 in 40 CFR 63.10898]

(3) [Does not apply]

(f) To determine compliance with the applicable PM or total metal HAP emissions limit for a metal melting furnace in §63.10895(c) when emissions from one or more regulated furnaces are combined with other non-regulated emissions sources, you may demonstrate compliance using the procedures in paragraphs (f)(1) through (3) of this section.

(1) Determine the PM or total metal HAP process-weighted mass emissions for each of the regulated streams prior to the combination with other exhaust streams or control device.

(2) Measure the flow rate and PM or total metal HAP concentration of the combined exhaust stream both before and after the control device and calculate the mass removal efficiency of the control device using Equation 3 of this section.

[Refer to Equation 3 in 40 CFR 63.10898]

(3) Meet the applicable emissions limit based on the calculated PM or total metal HAP process-weighted mass emissions for the regulated emissions source using Equation 4 of this section.

[Refer to Equation 4 in 40 CFR 63.10898]

(g) To determine compliance with an emissions limit for situations when multiple sources are controlled by a single control device, but only one source operates at a time or other situations that are not expressly considered in paragraphs (d) through (f) of this section, you must submit a site-specific test plan to the Administrator for approval according to the requirements in §63.7(c)(2) and (3).

(h) You must conduct each opacity test for fugitive emissions according to the requirements in §63.6(h)(5) and Table 1 to this subpart.

(i) You must conduct subsequent performance tests to demonstrate compliance with the opacity limit in §63.10895(e) no less frequently than every 6 months and each time you make a process change likely to increase fugitive emissions.

(j) In your performance test report, you must certify that the capture system operated normally during the performance test.

(k) [Does not apply]

(l) You may change the operating limits for a wet scrubber, electrostatic precipitator, or baghouse if you meet the requirements in paragraphs (l)(1) through (3) of this section.

(1) Submit a written notification to the Administrator of your plan to conduct a new performance test to revise the operating limit.

(2) Conduct a performance test to demonstrate compliance with the applicable emissions limitation in §63.10895(c).

(3) [Does not apply]

III. MONITORING REQUIREMENTS.

 # 010 [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.

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

 # 011 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

(a) The permittee shall conduct daily monitoring of the facility property (except weekends and holidays) while the plant is in operation, to observe for the presence of fugitive emissions and visible emissions being emitted into the outdoor atmosphere.

(b) All detected fugitive and visible emissions shall be reported to the shift supervisor in charge.

 # 012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10897]

Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources

What are my monitoring requirements?

(a) You must conduct an initial inspection of each PM control device for a metal melting furnace at an existing affected source. You must conduct each initial inspection no later than 60 days after your applicable compliance date for each installed control device which has been operated within 60 days of the compliance date. For an installed control device which has not operated within 60 days of the compliance date, you must conduct an initial inspection prior to startup of the control device. Following the initial inspections, you must perform periodic inspections and maintenance of each PM control device for a metal melting furnace at an existing affected source. You must perform the initial and periodic inspections according to the requirements in paragraphs (a)(1) through (4) of this section. You must record the results of each initial and periodic inspection and any maintenance action in the logbook required in §63.10899(b)(13).

(1) For the initial inspection of each baghouse, you must visually inspect the system ductwork and baghouse units for leaks. You must also inspect the inside of each baghouse for structural integrity and fabric filter condition. Following the initial inspections, you must inspect and maintain each baghouse according to the requirements in paragraphs (a)(1)(i) and (ii) of this section.

(i) You must conduct monthly visual inspections of the system ductwork for leaks.

(ii) You must conduct inspections of the interior of the baghouse for structural integrity and to determine the condition of the fabric filter every 6 months.

(2) - (4) [Do not apply]

(b) - (c) [Do not apply

(d) If you own or operate an existing affected source, you may install, operate, and maintain a bag leak detection system for each negative pressure baghouse or positive pressure baghouse as an alternative to the baghouse inspection requirements in paragraph (a)(1) of this section. If you own or operate a new affected source, you must install, operate, and maintain a bag leak detection system for each negative pressure baghouse or positive pressure baghouse. You must install, operate, and maintain each bag leak detection system according to the requirements in paragraphs (d)(1) through (3) of this section.

(1) Each bag leak detection system must meet the requirements in paragraphs (d)(1)(i) through (vii) of this section.

(i) The system must be certified by the manufacturer to be capable of detecting emissions of particulate matter at concentrations of 10 milligrams per actual cubic meter (0.00044 grains per actual cubic foot) or less.

(ii) The bag leak detection system sensor must provide output of relative particulate matter loadings and the owner or operator shall continuously record the output from the bag leak detection system using a strip chart recorder, data logger, or other means.

(iii) The system must be equipped with an alarm that will sound when an increase in relative particulate loadings is detected over the alarm set point established in the operation and maintenance plan, and the alarm must be located such

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that it can be heard by the appropriate plant personnel.

(iv) The initial adjustment of the system must, at minimum, consist of establishing the baseline output by adjusting the sensitivity (range) and the averaging period of the device, and establishing the alarm set points. If the system is equipped with an alarm delay time feature, you also must adjust the alarm delay time.

(v) Following the initial adjustment, do not adjust the sensitivity or range, averaging period, alarm set point, or alarm delay time. Except, once per quarter, you may adjust the sensitivity of the bag leak detection system to account for seasonable effects including temperature and humidity according to the procedures in the monitoring plan required by paragraph (d)(2) of this section.

(vi) For negative pressure baghouses, induced air baghouses, and positive pressure baghouses that are discharged to the atmosphere through a stack, the bag leak detector sensor must be installed downstream of the baghouse and upstream of any wet scrubber.

(vii) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.

(2) You must prepare a site-specific monitoring plan for each bag leak detection system to be incorporated in your O&M plan. You must operate and maintain each bag leak detection system according to the plan at all times. Each plan must address all of the items identified in paragraphs (d)(2)(i) through (vi) of this section.

(i) Installation of the bag leak detection system.

(ii) Initial and periodic adjustment of the bag leak detection system including how the alarm set-point will be established.

(iii) Operation of the bag leak detection system including quality assurance procedures.

(iv) Maintenance of the bag leak detection system including a routine maintenance schedule and spare parts inventory list.

(v) How the bag leak detection system output will be recorded and stored.

(vi) Procedures for determining what corrective actions are necessary in the event of a bag leak detection alarm as required in paragraph (d)(3) of this section.

(3) In the event that a bag leak detection system alarm is triggered, you must initiate corrective action to determine the cause of the alarm within 1 hour of the alarm, initiate corrective action to correct the cause of the problem within 24 hours of the alarm, and complete corrective action as soon as practicable, but no later than 10 calendar days from the date of the alarm. You must record the date and time of each valid alarm, the time you initiated corrective action, the correction action taken, and the date on which corrective action was completed. Corrective actions may include, but are not limited to:

(i) Inspecting the bag house for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in emissions.

(ii) Sealing off defective bags or filter media.

(iii) Replacing defective bags or filter media or otherwise repairing the control device.

(iv) Sealing off a defective baghouse department.

(v) Cleaning the bag leak detection system probe, or otherwise repairing the bag leak detection system.

(vi) Shutting down the process producing the particulate emissions.

(e) You must make monthly 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 must include observations of the physical

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appearance of the equipment (e.g., presence of holes in the ductwork or hoods, flow constrictions caused by dents or accumulated dust in the ductwork, and fan erosion). You must repair any defect or deficiency in the capture system as soon as practicable, but no later than 90 days. You must record the date and results of each inspection and the date of repair of any defect or deficiency.

(f) You must install, operate, and maintain each CPMS or other measurement device according to your O&M plan. You must record all information needed to document conformance with these requirements.

(g) In the event of an exceedance of an established emissions limitation (including an operating limit), you must restore operation of the emissions source (including the control device and associated capture system) to its normal or usual manner or operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the exceedance. You must record the date and time correction action was initiated, the correction action taken, and the date corrective action was completed.

(h) If you choose to comply with an emissions limit in §63.10895(c) using emissions averaging, you must calculate and record for each calendar month the pounds of PM or total metal HAP per ton of metal melted from the group of all metal melting furnaces at your foundry. You must calculate and record the weighted average pounds per ton emissions rate for the group of all metal melting furnaces at the foundry determined from the performance test procedures in §63.10898(d) and (e).

IV. RECORDKEEPING REQUIREMENTS.

 # 013 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall maintain monthly records of facility-wide production from all lines, as tons of metal charged, calculated as a 12-month rolling total. These records shall be made available to the Department upon request.

 # 014 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

(a) The permittee shall maintain a record of the monitoring conducted to determine the presence of fugitive and visible emissions.

(b) This recordkeeping shall contain a listing or notation of any and all sources of fugitive and visible emissions, the cause of the fugitive or visible emissions, duration of the emission, and the corrective action taken to abate the deviation and prevent future occurances.

 # 015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10899]

Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources

What are my recordkeeping and reporting requirements?

(a) As required by §63.10(b)(1), you must maintain files of all information (including all reports and notifications) for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche.

(b) In addition to the records required by 40 CFR 63.10, you must keep records of the information specified in paragraphs (b)(1) through (13) of this section.

(1) You must keep records of your written materials specifications according to §63.10885(a) and records that demonstrate compliance with the requirements for restricted metallic scrap in §63.10885(a)(1) and/or for the use of general scrap in §63.10885(a)(2) and for mercury in §63.10885(b)(1) through (3), as applicable. You must keep records documenting compliance with §63.10885(b)(4) for scrap that does not contain motor vehicle scrap.

(2) - (3) [Do not apply]

SECTION C. Site Level Requirements

(4) You must keep records to document use of any binder chemical formulation that does not contain methanol as a specific ingredient of the catalyst formulation for each furfuryl alcohol warm box mold or core making line as required by §63.10886. These records must be the Material Safety Data Sheet (provided that it contains appropriate information), a certified product data sheet, or a manufacturer's hazardous air pollutant data sheet.

(5) You must keep records of the annual quantity and composition of each HAP-containing chemical binder or coating material used to make molds and cores. These records must be copies of purchasing records, Material Safety Data Sheets, or other documentation that provide information on the binder or coating materials used.

(6) You must keep records of monthly metal melt production for each calendar year.

(7) You must keep a copy of the operation and maintenance plan as required by §63.10896(a) and records that demonstrate compliance with plan requirements.

(8) If you use emissions averaging, you must keep records of the monthly metal melting rate for each furnace at your iron and steel foundry, and records of the calculated pounds of PM or total metal HAP per ton of metal melted for the group of all metal melting furnaces required by §63.10897(h).

(9) If applicable, you must keep records for bag leak detection systems as follows:

(i) Records of the bag leak detection system output;

(ii) Records of bag leak detection system adjustments, including the date and time of the adjustment, the initial bag leak detection system settings, and the final bag leak detection system settings; and

(iii) The date and time of all bag leak detection system alarms, and for each valid alarm, the time you initiated corrective action, the corrective action taken, and the date on which corrective action was completed.

(10) You must keep records of capture system inspections and repairs as required by §63.10897(e).

(11) You must keep records demonstrating conformance with your specifications for the operation of CPMS as required by §63.10897(f).

(12) You must keep records of corrective action(s) for exceedances and excursions as required by §63.10897(g).

(13) You must record the results of each inspection and maintenance required by §63.10897(a) for PM control devices in a logbook (written or electronic format). You must keep the logbook onsite and make the logbook available to the Administrator upon request. You must keep records of the information specified in paragraphs (b)(13)(i) through (iii) of this section.

(i) The date and time of each recorded action for a fabric filter, the results of each inspection, and the results of any maintenance performed on the bag filters.

(ii) - (iii) [Do not apply]

(c) - (d) [Printed under Reporting Requirements in this section of permit.]

V. REPORTING REQUIREMENTS.

 # 016 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall maintain records of the facility wide production from all lines (tons of metal charged on a 12-month rolling basis). This report shall be kept for 5 years and will be submitted to the Department when required.

 # 017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10890]

Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources

What are my management practices and compliance requirements?

SECTION C. Site Level Requirements

(a) You must comply with the pollution prevention management practices for metallic scrap and mercury switches in §63.10885 and binder formulations in §63.10886.

(b) You must submit an initial notification of applicability according to §63.9(b)(2).

(c) You must submit a notification of compliance status according to §63.9(h)(1)(i). You must send the notification of compliance status before the close of business on the 30th day after the applicable compliance date specified in §63.10881. The notification must include the following compliance certifications, as applicable:

(1) “This facility has prepared, and will operate by, written material specifications for metallic scrap according to §63.10885(a)(1)” and/or “This facility has prepared, and will operate by, written material specifications for general iron and steel scrap according to §63.10885(a)(2).”

(2) “This facility has prepared, and will operate by, written material specifications for the removal of mercury switches and a site-specific plan implementing the material specifications according to §63.10885(b)(1) and/or “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 Administrator according to §63.10885(b)(2) and has prepared a plan for participation in the EPA-approved program according to §63.10885(b)(2)(iv)” and/or “The only materials from motor vehicles in the scrap charged to a metal melting furnace at this facility are materials recovered for their specialty alloy content in accordance with §63.10885(b)(3) which are not reasonably expected to contain mercury switches” and/or “This facility complies with the requirements for scrap that does not contain motor vehicle scrap in accordance with §63.10885(b)(4).”

(3) “This facility complies with the no methanol requirement for the catalyst portion of each binder chemical formulation for a furfuryl alcohol warm box mold or core making line according to §63.10886.”

(d) As required by §63.10(b)(1), you must maintain files of all information (including all reports and notifications) for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche.

(e) You must maintain records of the information specified in paragraphs (e)(1) through (7) of this section according to the requirements in §63.10(b)(1).

(1) Records supporting your initial notification of applicability and your notification of compliance status according to §63.10(b)(2)(xiv).

(2) Records of your written materials specifications according to §63.10885(a) and records that demonstrate compliance with the requirements for restricted metallic scrap in §63.10885(a)(1) and/or for the use of general scrap in §63.10885(a)(2) and for mercury in §63.10885(b)(1) through (3), as applicable. You must keep records documenting compliance with §63.10885(b)(4) for scrap that does not contain motor vehicle scrap.

(3) - (4) [Do not apply]

(5) Records to document use of binder chemical formulation that does not contain methanol as a specific ingredient of the catalyst formulation for each furfuryl alcohol warm box mold or core making line as required by §63.10886. These records must be the Material Safety Data Sheet (provided that it contains appropriate information), a certified product data sheet, or a manufacturer's hazardous air pollutant data sheet.

(6) Records of the annual quantity and composition of each HAP-containing chemical binder or coating material used to make molds and cores. These records must be copies of purchasing records, Material Safety Data Sheets, or other documentation that provides information on the binder or coating materials used.

(7) Records of metal melt production for each calendar year.

(f) You must submit semiannual compliance reports to the Administrator according to the requirements in §63.10(e). The

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report must clearly identify any deviation from the pollution prevention management practices in §63.10885 or §63.10886 and the corrective action taken.

(g) You must submit a written notification to the Administrator of the initial classification of your facility as a small foundry as required in §63.10880(f) and (g), as applicable, and for any subsequent reclassification as required in §63.10881(d)(1) or (e), as applicable.

(h) Following the initial determination for an existing affected source as a small foundry, if the annual metal melt production exceeds 20,000 tons during the preceding year, you must comply with the requirements for large foundries by the applicable dates in §63.10881(d)(1)(i) or (d)(1)(ii). Following the initial determination for a new affected source as a small foundry, if you increase the annual metal melt capacity to exceed 10,000 tons, you must comply with the requirements for a large foundry by the applicable dates in §63.10881(e)(1).

(i) You must comply with the following requirements of the General Provisions (40 CFR part 63, subpart A): §§63.1 through 63.5; §63.6(a), (b), (c), and (e)(1); §63.9; §63.10(a), (b)(1), (b)(2)(xiv), (b)(3), (d)(1), (d)(4), and (f); and §§63.13 through 63.16. Requirements of the General Provisions not cited in the preceding sentence do not apply to the owner or operator of a new or existing affected source that is classified as a small foundry.

 # 018 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10899]

Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources

What are my recordkeeping and reporting requirements?

[From 40 CFR §63.10899(c)-(d):]

(c) You must submit semiannual compliance reports to the Administrator according to the requirements in §63.10(e). The reports must include, at a minimum, the following information as applicable:

(1) Summary information on the number, duration, and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective action taken;

(2) Summary information on the number, duration, and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other calibration checks, if applicable); and

(3) Summary information on any deviation from the pollution prevention management practices in §§63.10885 and 63.10886 and the operation and maintenance requirements §63.10896 and the corrective action taken.

(d) You must submit written notification to the Administrator of the initial classification of your new or existing affected source as a large iron and steel facility as required in §63.10880(f) and (g), as applicable, and for any subsequent reclassification as required in §63.10881(d) or (e), as applicable.

VI. WORK PRACTICE REQUIREMENTS.

 # 019 [25 Pa. Code §121.7]

Prohibition of air pollution.

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

 # 020 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

[From: 25 Pa. Code §123.1(c):]

(c) A person responsible for any source specified in subsections (a)(1)—(7) or (9) [Condition #001, above] shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions 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

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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.

 # 021 [25 Pa. Code §123.31]

Limitations

[From 25 Pa. Code § 123.31(a):]

(a) Limitations are as follows:

(1) If control of malodorous air contaminants is required under subsection (b) [Condition #003, above], emissions shall be incinerated at a minimum of 1200°F for at least 0.3 second 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.

 # 022 [25 Pa. Code §129.14]

Open burning operations

(a) [Does not apply]

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

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

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

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

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

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

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

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

(2) 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) - (5) [Do not apply]

(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:

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(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) [Does not apply]

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

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

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

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

 # 023 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10885]

Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources

What are my management practices for metallic scrap and mercury switches?

(a) Metallic scrap management program. For each segregated metallic scrap storage area, bin or pile, you must comply with the materials acquisition requirements in paragraph (a)(1) or (2) of this section. You must keep a copy of the material specifications onsite and readily available to all personnel with material acquisition duties, and provide a copy to each of your scrap providers. You may have certain scrap subject to paragraph (a)(1) of this section and other scrap subject to paragraph (a)(2) of this section at your facility provided the metallic scrap remains segregated until charge make-up.

(1) Restricted metallic scrap. You must prepare and operate at all times according to written material specifications for the purchase and use of only metal ingots, pig iron, slitter, or other materials that do not include post-consumer automotive body scrap, post-consumer engine blocks, post-consumer oil filters, oily turnings, lead components, chlorinated plastics, or free liquids. For the purpose of this subpart, “free liquids” is defined as material that fails the paint filter test by EPA Method 9095B, “Paint Filter Liquids Test” (revision 2), November 2004 (incorporated by reference—see §63.14). The requirements for no free liquids do not apply if the owner or operator can demonstrate that the free liquid is water that resulted from scrap exposure to rain.

(2) General iron and steel scrap. You must prepare and operate at all times according to written material specifications for the purchase and use of only iron and steel scrap that has been depleted (to the extent practicable) of organics and HAP metals in the charge materials used by the iron and steel foundry. The materials specifications must include at minimum the information specified in paragraph (a)(2)(i) or (ii) of this section.

(i) Except as provided in paragraph (a)(2)(ii) of this section, specifications for metallic scrap materials charged to a scrap preheater or metal melting furnace to be depleted (to the extent practicable) of the presence of used oil filters, chlorinated plastic parts, accessible lead-containing components (such as batteries and wheel weights), and a program to ensure the scrap materials are drained of free liquids.

(ii) [Does not apply]

(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

SECTION C. Site Level Requirements

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) - (3) [Do not apply]

(4) Scrap that does not contain motor vehicle scrap. For scrap not subject to the requirements in paragraphs (b)(1) through (3) of this section, you must certify in your notification of compliance status and maintain records of documentation that this scrap does not contain motor vehicle scrap.

 # 024 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10886]

Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources

What are my management practices for binder formulations

For each furfuryl alcohol warm box mold or core making line at a new or existing iron and steel foundry, you must use a binder chemical formulation that does not use methanol as a specific ingredient of the catalyst formulation. This requirement does not apply to the resin portion of the binder system.

 # 025 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10895]

Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources

What are my standards and management practices?

(a) If you own or operate an affected source that is a large foundry as defined in §63.10906, you must comply with the pollution prevention management practices in §§63.10885 and 63.10886, the requirements in paragraphs (b) through (e) of this section, and the requirements in §§63.10896 through 63.10900.

(b) You must operate a capture and collection system for each metal melting furnace at a new or existing iron and steel foundry unless that furnace is specifically uncontrolled as part of an emissions averaging group. Each capture and collection system must meet accepted engineering standards, such as those published by the American Conference of Governmental Industrial Hygienists.

(c) - (e) [Printed under Restrictions in this section of permit.]

 # 026 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10896]

Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources

What are my operation and maintenance requirements?

(a) You must prepare and operate at all times according to a written operation and maintenance (O&M) plan for each control device for an emissions source subject to a PM, metal HAP, or opacity emissions limit in §63.10895. You must maintain a copy of the O&M plan at the facility and make it available for review upon request. At a minimum, each plan must contain the following information:

(1) General facility and contact information;

(2) Positions responsible for inspecting, maintaining, and repairing emissions control devices which are used to comply with this subpart;

(3) Description of items, equipment, and conditions that will be inspected, including an inspection schedule for the items, equipment, and conditions. For baghouses that are equipped with bag leak detection systems, the O&M plan must include the site-specific monitoring plan required in §63.10897(d)(2).

(4) Identity and estimated quantity of the replacement parts that will be maintained in inventory; and

(5) [Does not apply]

(b) You may use any other O&M, preventative maintenance, or similar plan which addresses the requirements in paragraph (a)(1) through (5) of this section to demonstrate compliance with the requirements for an O&M plan.

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VII. ADDITIONAL REQUIREMENTS.

 # 027 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63 Subpart ZZZZZ Table 1]

Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources

Performance Test Requirements for New and Existing Affected Sources Classified as Large Foundries

[As required in §63.10898(c) and (h), you must conduct performance tests according to the test methods and procedures in the following table]

For. . .	You must. . .	According to the following requirements. . .
1. Each metal melting furnace subject to a PM or total metal HAP limit in §63.10895(c).	a. Select sampling port locations and the number of traverse points in each stack or duct using EPA Method 1 or 1A (40 CFR part 60, appendix A).	Sampling sites must be located at the outlet of the control device (or at the outlet of the emissions source if no control device is present) prior to any releases to the atmosphere.
	b. Determine volumetric flow rate of the stack gas using Method 2, 2A, 2C, 2D, 2F, or 2G (40 CFR part 60, appendix A).	i. Collect a minimum sample volume of 60 dscf of gas during each PM sampling run. The PM concentration is determined using only the front-half (probe rinse and filter) of the PM catch.
	c. Determine dry molecular weight of the stack gas using EPA Method 3, 3A, or 3B (40 CFR part 60, appendix A).1.	ii. For Method 29, only the measured concentration of the listed metal HAP analytes that are present at concentrations exceeding one-half the quantification limit of the analytical method are to be used in the sum. If any of the analytes are not detected or are detected at concentrations less than one-half the quantification limit of the analytical method, the concentration of those analytes is assumed to be zero for the purposes of calculating the total

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		metal HAP.	
	d. Measure moisture content of the stack gas using EPA Method 4 (40 CFR part 60, appendix A).	iii. A minimum of three valid test runs are needed to comprise a PM or total metal HAP performance test.	
	e. Determine PM concentration using EPA Method 5, 5B, 5D, 5F, or 5I, as applicable or total metal HAP concentration using EPA Method 29 (40 CFR part 60, appendix A).	iv. For cupola metal melting furnaces, sample PM or total metal HAP only during times when the cupola is on blast.	
		v. For electric arc and electric induction metal melting furnaces, sample PM or total metal HAP only during normal melt production conditions, which may include, but are not limited to the following operations: Charging, melting, alloying, refining, slagging, and tapping.	
		vi. Determine and record the total combined weight of tons of metal charged during the duration of each test run. You must compute the process-weighted mass emissions of PM according to Equation 1 of §63.10898(d) for an individual furnace or Equation 2 of §63.10898(e) for the group of all metal melting furnaces at the foundry.	
2. Fugitive emissions from buildings or structures housing any iron and steel foundry emissions sources subject to opacity limit in §63.10895(e).	a. Using a certified observer, conduct each opacity test according to EPA Method 9 (40 CFR part 60, appendix A-4) and 40 CFR 63.6(h)(5).	i. The certified observer may identify a limited number of openings or vents that appear to have the highest opacities and perform opacity observations on the identified openings or vents in lieu of performing obser-	

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		vations for each opening or vent from the building or structure. Alternatively, a single opacity observation for the entire building or structure may be performed, if the fugitive release points afford such an observation.
		ii. During testing intervals when PM or total metal HAP performance tests, if applicable, are being conducted, conduct the opacity test such that the opacity observations are recorded during the PM or total metal HAP performance tests.
b. As alternative to Method 9 performance test, conduct visible emissions test by Method 22 (40 CFR part 60, appendix A-7). The test is successful if no visible emissions are observed for 90 percent of the readings over 1 hour. If VE is observed greater than 10 percent of the time over 1 hour, then the facility must conduct another performance test as soon as possible, but no later than 15 calendar days after the Method 22 test, using Method 9 (40 CFR part 60, appendix A-4).	i. The observer may identify a limited number of openings or vents that appear to have the highest visible emissions and perform observations on the identified openings or vents in lieu of performing observations for each opening or vent from the building or structure. Alternatively, a single observation for the entire building or structure may be performed, if the fugitive release points afford such an observation.	

Table 1 to Subpart ZZZZZ of Part 63.--
Performance Test Requirements for New and Existing Affected Sources

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Classified as Large Foundries--Contd.
[As required in §63.10898(c) and (h), you must conduct performance tests according to the test methods and procedures in the following table]

For. . .	You must. . .	According to the following requirements. . .
		ii. During testing intervals when PM or total metal HAP performance tests, if applicable, are being conducted, conduct the visible emissions test such that the observations are recorded during the PM or total metal HAP performance tests.

1You may also use as an alternative to EPA Method 3B (40 CFR part 60, appendix A), the manual method for measuring the oxygen, carbon dioxide, and carbon monoxide content of exhaust gas, ANSI/ASME PTC 19.10-1981, 'Flue and Exhaust Gas Analyses' (incorporated by reference--see §63.14).

 # 028 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63 Subpart ZZZZZ Table 3]

Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources

Applicability of General Provisions to New and Existing AffectedSources Classified as Large Foundries

Table 3 to Subpart ZZZZZ of Part 63.--
Applicability of General Provisions to New and Existing Affected Sources Classified as Large Foundries
[As required in §63.10900(a), you must meet each requirement in the following table that applies to you.]

Citation	Subject	Applies to large foundry?	Explanation
63.1	Applicability	Yes.	
63.2	Definitions	Yes.	
63.3	Units and abbreviations	Yes.	
63.4	Prohibited activities	Yes.	
63.5	Construc- tion/reconstruction	Yes.	
63.6(a)-(g)	Compliance with standards and maintenance requirements.	Yes.	
63.6(h)	Opacity and visible	Yes.	

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	emissions standards.....		
63.6(i)(i)-(j).....	Compliance extension and Presidential compliance exemption.	Yes.	
63.7(a)(3), (b)-(h).....	Performance testing requirements.....	Yes.	
63.7(a)(1)-(a)(2)....	Applicability and performance test dates.	No.....	Subpart ZZZZZ specifies applicability and performance test dates.
63.8(a)(1)-(a)(3), (b), (c)(1)-(c)(3), (c)(6)-(c)(8), (d), (e), (f)(1)-(f)(6), (g)(1)-(g)(4).	Monitoring requirements.....	Yes.	
63.8(a)(4).....	Additional monitoring requirements for control devices in §63.11.	No.	
63.8(c)(4).....	Continuous monitoring system (CMS) requirements.	No.	
63.8(c)(5).....	Continuous opacity monitoring system (COMS) minimum procedures.	No.	
63.8(g)(5).....	Data reduction.....	No.	
63.9.....	Notification requirements.....	Yes.	
63.10(a), (b)(1)-(b)(2)(xii) -(b)(2)(xiv), (b)(3), (d)(1)-(2), (e)(1)-(2), (f).	Recordkeeping and re- porting requirements.	Yes.	
63.10(c)(1)-(6), (c)(9)-(15).....	Additional records for continuous monitoring systems.	No.	
63.10(c)(7)-(8).....	Records of excess emissions and parameter monitoring exceedances for CMS.	Yes.	
63.10(d)(3).....	Reporting opacity or visible emissions observations.	Yes.	
63.10(e)(3).....	Excess emissions reports	Yes.	
63.10(e)(4).....	Reporting COMS data..	No.	
63.11.....	Control device requirements.....	No.	
63.12.....	State authority and delegations.....	Yes.	
63.13-63.16.....	Addresses of State air pollution control	Yes.	

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agencies and EPA regional offices. Incorporation by reference. Availability of information and confidentiality. Performance track provisions.		

 # 029 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63 Subpart ZZZZZ Table 4]

Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources Compliance Certifications for New and Existing Affected SourcesCompliance Certifications for New and Existing Affected Sources

[As required by §63.10900(b), your notification of compliance status must include certifications of compliance according to the following table.]

For. . .	Your notification of compliance status required by §63.9(h) must include this certification of compliance, signed by a responsible official:
Each new or existing affected source classified as a large foundry and subject to scrap management requirements in §63.10885(a)(1) and/or (2).	'This facility has prepared, and will operate by, written material specifications for metallic scrap according to §63.10885(a)(1)' and/or 'This facility has prepared, and will operate by, written material specifications for general iron and steel scrap according to §63.10885(a)(2).'
Each new or existing affected source classified as a large foundry and subject to mercury switch removal requirements in §63.10885(b).	

SECTION C. Site Level Requirements

	'This facility complies with the requirements for scrap that does not contain motor vehicle scrap in accordance with §63.10885(b)(4).'	
Each new or existing affected source classified as a large foundry and subject to §63.10886.	'This facility complies with the no methanol requirement for the catalyst portion of each binder chemical formulation for a furfuryl alcohol warm box mold or core making line according to §63.10886.'	
Each new or existing affected source classified as a large foundry and subject to §63.10895(b).	'This facility operates a capture and collection system for each emissions source subject to this subpart according to §63.10895(b).'	
Each existing affected source classified as a large foundry and subject to §63.10895(c)(1).	'This facility complies with the PM or total metal HAP emissions limit in §63.10895(c) for each metal melting furnace or group of all metal melting furnaces based on a previous performance test in accordance with §63.10898(a)(1).'	
Each new or existing affected source classified as a large foundry and subject to §63.10896(a).	'This facility has prepared and will operate by an operation and maintenance plan according to §63.10896(a).'	
Each new or existing (if applicable) affected source classified as a large foundry and	'This facility has prepared and will operate by a site-specific monitoring plan for each bag leak detection system and submitted the plan to the Administrator for approval according to §63.10897(d)(2).'	

SECTION C. Site Level Requirements

subject to §63.10897(d).

 # 030 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10880]

Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources

Am I subject to this subpart?

(a) You are subject to this subpart if you own or operate an iron and steel foundry that is an area source of hazardous air pollutant (HAP) emissions.

(b) This subpart applies to each new or existing affected source. The affected source is each iron and steel foundry.

(1) An affected source is existing if you commenced construction or reconstruction of the affected source before September 17, 2007.

(2) [Does not apply]

(c) - (e) [Do not apply]

(f) If you own or operate an existing affected source, you must determine the initial applicability of the requirements of this subpart to a small foundry or a large foundry based on your facility's metal melt production for calendar year 2008. If the metal melt production for calendar year 2008 is 20,000 tons or less, your area source is a small foundry. If your metal melt production for calendar year 2008 is greater than 20,000 tons, your area source is a large foundry. You must submit a written notification to the Administrator that identifies your area source as a small foundry or a large foundry no later than January 2, 2009.

(g) [Does not apply]

 # 031 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10881]

Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources

What are my compliance dates?

(a) If you own or operate an existing affected source, you must achieve compliance with the applicable provisions of this subpart by the dates in paragraphs (a)(1) through (3) of this section.

(1) Not later than January 2, 2009 for the pollution prevention management practices for metallic scrap in §63.10885(a) and binder formulations in §63.10886.

(2) Not later than January 4, 2010 for the pollution prevention management practices for mercury in §63.10885(b).

(3) [Does not apply]

(b) - (c) [Do not apply]

(d) Following the initial determination for an existing affected source required in §63.10880(f),

(1) Beginning January 1, 2010, if the annual metal melt production of your small foundry exceeds 20,000 tons during the preceding calendar year, you must submit a notification of foundry reclassification to the Administrator within 30 days and comply with the requirements in paragraphs (d)(1)(i) or (ii) of this section, as applicable.

(i) If your small foundry has never been classified as a large foundry, you must comply with the requirements for a large foundry no later than 2 years after the date of your foundry's notification that the annual metal melt production exceeded 20,000 tons.

(ii) If your small foundry had previously been classified as a large foundry, you must comply with the requirements for a large foundry no later than the date of your foundry's most recent notification that the annual metal melt production exceeded 20,000 tons.

SECTION C. Site Level Requirements

(2) If your facility is initially classified as a large foundry (or your small foundry subsequently becomes a large foundry), you must comply with the requirements for a large foundry for at least 3 years before reclassifying your facility as a small foundry, even if your annual metal melt production falls below 20,000 tons. After 3 years, you may reclassify your facility as a small foundry provided your annual metal melt production for the preceding calendar year was 20,000 tons or less. If you reclassify your large foundry as a small foundry, you must submit a notification of reclassification to the Administrator within 30 days and comply with the requirements for a small foundry no later than the date you notify the Administrator of the reclassification. If the annual metal melt production exceeds 20,000 tons during a subsequent year, you must submit a notification of reclassification to the Administrator within 30 days and comply with the requirements for a large foundry no later than the date you notify the Administrator of the reclassification.

(e) [Does not apply]

 # 032 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10900]

Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources

What parts of the General Provisions apply to my large foundry?

(a) If you own or operate a new or existing affected source that is classified as a large foundry, you must comply with the requirements of the General Provisions (40 CFR part 63, subpart A) according to Table 3 of this subpart. [Refer to Table 3 to Subpart ZZZZZ]

(b) If you own or operator a new or existing affected source that is classified as a large foundry, your notification of compliance status required by §63.9(h) must include each applicable certification of compliance, signed by a responsible official, in Table 4 of this subpart. [Refer to Table 4 to Subpart ZZZZZ]

 # 033 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10905]

Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources

Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by EPA or a delegated authority such as your State, local, or tribal agency. If the EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency has the authority to implement and enforce this subpart. You should contact your EPA Regional Office to find out if implementation and enforcement of 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 EPA Administrator and are not transferred to the State, local, or tribal agency.

(c) The authorities that cannot be delegated to State, local, or tribal agencies are specified in paragraphs (c)(1) through (6) of this section.

(1) Approval of an alternative non-opacity emissions standard under 40 CFR 63.6(g).

(2) Approval of an alternative opacity emissions standard under §63.6(h)(9).

(3) Approval of a major change to test methods under §63.7(e)(2)(ii) and (f). A “major change to test method” is defined in §63.90.

(4) Approval of a major change to monitoring under §63.8(f). A “major change to monitoring” under is defined in §63.90.

(5) Approval of a major change to recordkeeping and reporting under §63.10(f). A “major change to recordkeeping/reporting” is defined in §63.90.

(6) Approval of a local, State, or national mercury switch removal program under §63.10885(b)(2).

 # 034 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10906]

Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources

What definitions apply to this subpart?

[Refer to 40 CFR §63.10906 for definitions applicable to Subpart ZZZZZ.]

SECTION C. Site Level 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.

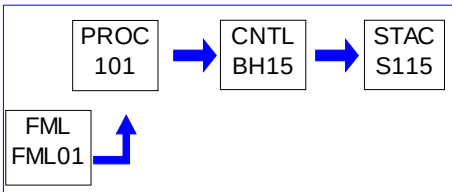
No compliance milestones exist.

SECTION D. Source Level Requirements

Source ID: 101 Source Name: CHARGE & PREHEATING

Source Capacity/Throughput:	12.000	Tons/HR	METAL
	6.000	MCF/HR	Natural Gas

Conditions for this source occur in the following groups: 2
3



I. RESTRICTIONS.

Fuel Restriction(s).

 # 001 [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.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 102 Source Name: MELTING-TRANSFER-MAG TREA

Source Capacity/Throughput:	12.000	Tons/HR	METAL
	12.000	Tons/HR	METAL

Conditions for this source occur in the following groups: 3

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 103 Source Name: POURING-COOLING-SHAKEOUT (103 & 103A)

Source Capacity/Throughput: 12.000 Tons/HR IRON

PROC 103 → STAC Z103

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 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 0.02 grains per dry standard cubic foot, whichever is greater:

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.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

 # 002 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The facility shall keep adequate records to clearly demonstrate to the Department that that the installation of the DISAMATIC 2110 MK4 Series mold machine does not increase emissions of this source in exceedence of 0.60 tpy of PM-10.

[From RFD #5127 approved on June 1, 2015.]

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

 # 003 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall maintain this source in accordance with the manufacturer's specifications and good air pollution control

SECTION D. Source Level Requirements

practices.

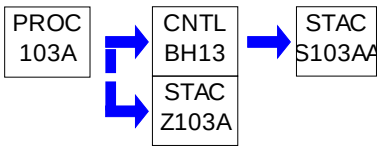
VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 103A Source Name: DISA MATCH CASTING LINE (POURING/COOLING/SHAKEOUT)

Source Capacity/Throughput:



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.21]

General

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

 # 002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

No person may permit the emission into the outdoor atmosphere of particulate matter from this source in such a manner that the concentration of particulate matter in the effluent gas exceeds 0.02 grains per dry standard cubic foot.

[From: Plan approval #20-040E, condition #002]

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

 # 003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The company shall monitor the pressure drop across the control device at least once per day when the source is in operation.

[From: Plan approval #20-040E, condition #004]

IV. RECORDKEEPING REQUIREMENTS.

 # 004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The company shall record sufficient data so that compliance with conditions of this Plan Approval can be determined. Records shall be kept for a minimum of five (5) years and shall be made available to the Department upon request.

(a) 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, and the pressure drop across the control device.

[From: Plan approval #20-040E, condition #005]

V. REPORTING REQUIREMENTS.

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

SECTION D. Source Level Requirements

VI. WORK PRACTICE REQUIREMENTS.

 # 005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee shall install, maintain, and operate, at a convenient location, a magnehelic gauge, or equivalent, to measure pressure drop across the fabric collector.

(b) The permittee shall keep at least 72 replacement bags for the fabric collector on hand at all times.

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

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

(e) The permittee shall maintain the pressure drop across the control device at all times between 1" and 6" water, gauge. If this range must be modified to allow for correct operation of the control device, such changes shall be submitted and approved by the Department.

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

[From: Plan approval #20-040E, condition #006]

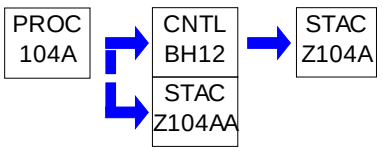
VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 104A Source Name: NEW GRINDING & GOFF

Source Capacity/Throughput: 12.000 Tons/HR METAL CHARGED



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 a 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 (State Only General Requirements).

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

 # 002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Plan Approval 20-040H]
(a) All recordkeeping shall commence upon startup of the source/control device. All records shall be kept for a period of five (5) years and shall be made available to the Department upon request.

[Plan Approval 20-040H]
(b) The permittee shall maintain a record of all preventive maintenance inspections of the control device. These records shall include, at a minimum, the dates of the inspections, the name of the person performing the inspection, any problems or defects identified, any actions taken to correct the problems or defects, any routine maintenance performed, and the quarterly black light leak inspections. [This condition replaces Plan Approval 20-040D condition 12]

[Plan Approval 20-040H]
(c) The permittee shall record the following operational data from the baghouse (these records may be done with strip charts recorders, data acquisition systems, or manual log entries):

1. Pressure differential - daily defined as once per calendar day

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

[Visible emissions checks are not required provided that the baghouse continues to be exhausted indoors].

[Plan Approval 20-040H]
[Additional authority for this permit condition is also derived from 40 CFR 64.9]

SECTION D. Source Level Requirements

(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.

[Plan Approval 20-040H]
[Additional authority for this permit condition is also derived from 40 CFR 64.9]
(e) The permittee shall record all inspections, repair and maintenance performed on the monitoring equipment.

[Plan Approval 20-040H]
[Additional authority for this permit condition is also derived from 40 CFR 64.9]
(f) The permittee shall maintain records of all monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable). The permittee shall also record the dates, times and durations, possible causes and corrective actions taken for the incidents.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

[Plan Approval 20-040H]
(a) The permittee shall perform a daily operational inspection of the control device.

[Plan Approval 20-040H]
(b) The permittee shall perform a monthly preventive maintenance inspection of the control device. [This condition replaces Plan Approval 20-040D condition 11]

[Plan Approval 20-040H]
(c) A magnehelic gauge or equivalent shall be maintained and operated to monitor the pressure differential across the baghouse. All gauges employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (+/- 2%) of full scale reading. [This condition replaces Plan Approval 20-040D condition 8]

[Plan Approval 20-040H]
[Additional authority for this permit condition is also derived from 40 CFR 64.3 & 64.6]
(d) The permittee shall adhere to the approved indicator range for the baghouse so that operation within the range shall provide reasonable assurance of compliance. A departure from the specified indicator range over a specified averaging period shall be defined as an excursion. The approved indicator range shall be determined by the manufacturer specifications, or developed during the initial ninety (90) day shakedown period, or developed during the initial performance test and any subsequently approved performance tests. The initial indicator range will be the following:

1. Pressure differential: 1.0 to 8.0 inches water

2. Visible emission: none

The permittee may submit an amended indictor range with an explanation of how it was determined for inclusion into the operating permit, in writing, prior to administratively amending into the facility operating permit. The permittee, with prior Departmental approval, may conduct additional performance tests to determine a new indicator range.

Within 24-hours of discovery of a reading outside of the prescribed range, the permittee shall perform a maintenance inspection on the control device and take corrective action. Records of all maintenance inspections on the control device, and corrective actions taken, shall be maintained on site for a minimum period of five years. In the event of more than one documented excursion outside the prescribed range in any calendar quarter the permittee shall submit a corrective

measure plan to the Department. Corrective measures may include an increase of the frequency of required preventative maintenance inspections of the control device, a modification of the prescribed range, or other appropriate action as approved by the Department. Upon receipt of a corrective measure plan the Department shall determine the appropriate corrective measure on a case-by case basis.

[Plan Approval 20-040H]
(e) The permittee shall operate the control device at all times that the source is in operation.

[Plan Approval 20-040H]
(f) The permittee shall perform quarterly "black-light" leak inspections of the baghouse. An excursion is defined as a failure to perform and record the quarterly leak inspections.

[Plan Approval 20-040D]
(g) Twenty percent of the total number of bags in each of the baghouses are require to be on hand (73 bags).

[Plan Approval 20-040H]
(h) The permittee shall maintain and operate the source and control device in accordance with the manufacturer's specifications and in accordance with good air pollution control practices. [This condition replaces Plan Approval 20-040D condition 10]

[Plan Approval 20-040H]
[Additional authority for this permit condition is also derived from 40 CFR 64.3]
(i) 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 new or modified monitoring equipment prior to commencement of the monitoring process.

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

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

[Plan Approval 20-040H]
[Additional authority for this permit condition is also derived from 40 CFR 64.4]
(k) The permittee shall submit an implementation plan and schedule if the approved monitoring required the installation, testing or other necessary activities. The schedule for completing installation and beggining operation of the monitoring may not exceed 180 days after issuance of this plan approval.

VII. ADDITIONAL REQUIREMENTS.

 # 004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Plan Approval 20-040H]
(a) - (b) Conditions satisfied by plan approval and no longer applicable.

Quality Improvement Plan Requirements

[Plan Approval 20-040H]
[Additional authority for this permit condition is also derived from 40 CFR 64.8]
(c) The permittee shall develop and implement a quality improvement plan (QIP) as expeditiously as practicable if any of the following occurs:

SECTION D. Source Level Requirements

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

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

[Plan Approval 20-040H]
[Additional authority for this permit condition is also derived from 40 CFR 64.8]
(d) In general, the QIP plan should be developed within 60 days and the permittee shall provide a copy of the QIP to the Department. Furthermore, the permittee shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.

[Plan Approval 20-040H]
[Additional authority for this permit condition is also derived from 40 CFR 64.9]
(e) The permittee shall record actions taken to implement a QIP during a reporting period and all related actions including, but not limited to inspections, repairs and maintenance performed on the monitoring equipment.

[Plan Approval 20-040H]
[Additional authority for this permit condition is also derived from 40 CFR 64.8]
(f) In accordance with 64.8, the QIP shall include procedures for evaluating the control performance problems. Based on the results of the evaluation procedures, the permittee shall modify the QIP, and provide a copy to the Department, to include procedures for conducting more frequent or improved monitoring in conjunction with one or more of the following:

1. Improved preventative maintenance practices

2. Process operation changes

3. Appropriate improvements to control methods

4. Other steps appropriate to correct performance

[Plan Approval 20-040H]
[Additional authority for this permit condition is also derived from 40 CFR 64.8]
(g) Following implementation of a QIP, the Department will require reasonable revisions to the QIP if the plan has failed to either:

1. Address the cause of the control device performance problem

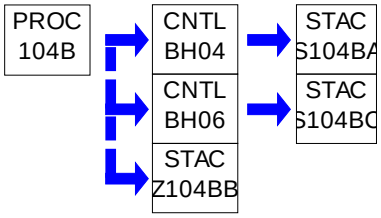
2. Provide adequate procedures for correcting control device performance problems in as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

[Plan Approval 20-040H]
[Additional authority for this permit condition is also derived from 40 CFR 64.8]
(h) Implementation of a QIP, shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under any federal, state, or local laws or any other applicable requirements under the Clean Air Act.

SECTION D. Source Level Requirements

Source ID: 104B Source Name: GRINDING & CLEANING

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 a 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 (State Only General Requirements).

III. MONITORING REQUIREMENTS.

 # 002 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall monitor and record daily pressure drop reading across the control device.

IV. RECORDKEEPING REQUIREMENTS.

 # 003 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

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, and the pressure drop across the control device.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

 # 004 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

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

(b) The permittee shall maintain a magnehelic gauge to measure the pressure drop across the control device.

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

(d) The permittee shall maintain and operate this source and the control device in accordance with the manufacturer's specifications.

SECTION D. Source Level Requirements

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 105 Source Name: SHELL CORE AND CORE DRYING

Source Capacity/Throughput:	3.000	Tons/HR	CORE PRODUCTS
	3.000	Tons/HR	CORE PRODUCTS

Conditions for this source occur in the following groups: 1
2

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall use only natural gas for baking oven.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

 # 002 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall keep a record of all purchased and produced core products. A monthly record of in-house usage of individual core making ingredient that produces emission shall be kept. The present month record shall be added with previous 11-month record to get 12-month rolling total.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

 # 003 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall maintain this source in accordance with manufacturer's specifications and good air pollution control practices.

SECTION D. Source Level Requirements

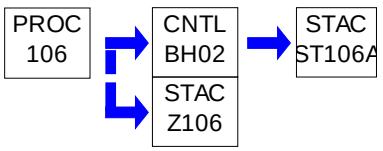
VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 106 Source Name: SAND HANDLING

Source Capacity/Throughput: 88.000 Tons/HR SAND



I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The PM-10 emissions from the exhaust from the South baghouse (MAC BH-02) shall not exceed 1.94 pounds per hour.

[From: Plan Approval Number Pa 20040B Condition Number 6]

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

 # 002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The following are CAM related requirements for particular matter.

[The following CAM conditions are applicable only to control device number BH-02]

(a) The permittee shall use the following approved process parameters or indicators to obtain and monitor the emission control equipment performance:

(1) Baghouse differential pressure.

(2) Broken bag detector system.

(3) Visible emission observations.

(4) Dye check for leak detection.

(b) The permittee shall use the following approved means or devices to measure the applicable indicators.

(1) Differential pressure gauge.

(2) Visible emission testing procedures.

(3) PCME Dustalert 90, Baghouse broken bag detector.

(4) Leak detection dye check system.

SECTION D. Source Level Requirements

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

(1) Baghouse differential pressure- measured daily.

(2) Visible Emission - inspected daily.

(3) Broken Bag Detector-continuous when source is in operation and reset quarterly.
(4) Dye Checking - Quarterly.

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

(1) The pressure drop across the baghouse is monitored at the bahouse inlet and exhaust. No averaging period will be used for this indicator. An excursion will be based on a discrete reading exceeding 8" water gauge or less than 1" water column.

(2) Visible emission observations are performed every day.

(3) Alarm system Dustalert 90 is used to detect bag leak. The external alarm installed to provide both an audible signal and visual flashing light set to indicate any significant increase in emissions which would be indicative of leaks in the filter. Alarm would trigger immediate inspection by maintenance personnel and corrective action. No averaging period will be used for this indicator. The system is in operation continuously.

(4) The baghouse is dye checked for leaks quarterly. Any leak detection triggers immediate repair. The clean air side of this equipment in inspected visually monthly. Any accumulation of dust on the clean air side triggers an immediate dye check. No averaging period will be used for this indicator.

IV. RECORDKEEPING REQUIREMENTS.

 # 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The following are CAM related requirements for Particulate matter:

[The following CAM conditions are applicable only to control device number BH-02]

(a) The permittee shall keep the record of pressure difference in pressure gauge daily.

(b) The permittee shall keep a record of daily visible monitoring results.

(c) The permittee shall keep the record of each activation of the bag leak alam system.

(d) The permittee shall keep a record of the quarterly dye check testing.

 # 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The following are CAM related requirements:

[The following CAM conditions are applicable only to control device number BH-02]

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

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

(3) The permittee shall maintain records of all monitoring downtime incidents (other than downtime associated with zero and span or other daily callibration checks, if applicable). The permittee shall also record the dates, times and durations,

SECTION D. Source Level Requirements

possible causes and corrective actions taken for the incidents.

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

[Additional authority for the above permit conditions are also derived from 40 CFR §64.9]

V. REPORTING REQUIREMENTS.

 # 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The following conditions are related to CAM rule:

[The following CAM conditions are applicable only to control device number BH-02]

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

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

(2) 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, time and durations, possible causes and corrective actions taken, every six (6) months.

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

VI. WORK PRACTICE REQUIREMENTS.

 # 006 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall install and permanently maintain a photophelic or equivalent gauge in a readable place to measure the pressure drop across the filter.

[From: Plan Approval # 20-304-006, condition # 6]

 # 007 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) A magnehelic gauge shall be permanently installed and maintained at a conveniently readable location to indicate the pressure drop across the MAC collector (BH 02).

(b)Twenty percent of the total number of bags of the MAC baghouse (BH 02) are required to be on hand (99 bags for each module).

(c) The permittee shall maintain the source and the fabric collector in accordance with the manufacturer's specifications.

(d) The permittee shall perform monthly preventive maintenance inspections of the fabric filter (MAC BH 02),and check the pressure drop across the fabric filter.

[From: Plan Approval Number Pa 20040B, Condition Number 8, 9, 10, 11]

 # 008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The following CAM Rule is for Particulate Matter:

[The following CAM conditions are applicable only to control device number BH-02]

(a) The permittee shall adhere to approved ranges for the selected indicators so that operation within the range shall

SECTION D. Source Level Requirements

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 range will be in between 1 to 8 inches of water column.

(2) Presence of any visible emission shall be observed by an uncertified observer. Anything other than zero visible emissions will trigger an immediate investigation by facility personnel.

(3) Broken bag detector indicator range set at 20 percent higher than the highest reading over the course of a normal shift. (For example, if the highest is 1.0, the detector limit will be set at 1.2).

(b) 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.

(1) Baghouse differential pressure gauge shall be calibrated semi-annually.

(2) Broken bag detector equipment will be calibrated monthly using internal calibration software routines. The probe shall be cleaned monthly.

(3) A responsible personnel shall conduct visible inspection and dye checking.

 # 009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The following conditions are related to CAM rule:

[The following CAM conditions are applicable only to control device number BH-02]

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

(a) 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.

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

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

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

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

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

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

VII. ADDITIONAL REQUIREMENTS.

 # 010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The following conditions are related to CAM rule:

[The following CAM conditions are applicable only to control device number BH-02]

SECTION D. Source Level Requirements

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

(a) For properly and accurately collected data, accumulated excursions exceed five percent (5%) of the data for particulate matter.

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

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

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

(2) In general, the QIP plan should be developed within 60 days and the permittee shall provide a copy of QIP to the Department. Furthermore the permittee shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.

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

(3) 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.

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

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

(a) Improved preventive maintenance practices.

(b) Process operation changes.

(c) Appropriate improvements to control methods

(d) Other steps appropriate to correct performances.

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

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

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

(b) 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.

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

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

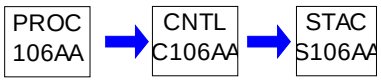
[Additional authority for this permit condition is also derived from 40 CFR § 64.8]

SECTION D. Source Level Requirements

Source ID: 106AA Source Name: BOND SILO

Source Capacity/Throughput:

Conditions for this source occur in the following groups: 6



I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

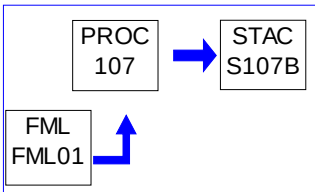
No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements) and/or Section E (Source Group Restrictions).

SECTION D. Source Level Requirements

Source ID: 107 Source Name: HEAT TREATING-AUSTEMPER OPERATION

Source Capacity/Throughput: 0.100 MCF/HR NATURAL GAS

Conditions for this source occur in the following groups: 1
2



I. RESTRICTIONS.

Fuel Restriction(s).

 # 001 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

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

II. TESTING REQUIREMENTS.

 # 002 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

[Plan Approval 20-040I]

(a) No later than 90 days from the date of the operating permit issuance and each year thereafter, 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. The stack test shall be performed while the aforementioned source is operating at the maximum or normal rated capacity as stated on the application. The stack test shall be conducted for total particulate matter using EPA Method 5 or other methods approved by the Department to demonstrate compliance with the particulate emission limit of §123.13 (0.04 gr/dscf).

1. [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's Division of Source Testing and Monitoring and two copies to the appropriate Regional Office Department for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

2. [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.

3. [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.

4. [40 CFR Part 60.8(a), 40 CFR Part 61.13(f) and 40 CFR Part 63.7(g)] 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. For those tests being conducted pursuant to 40 CFR Part 61, a complete test report shall be submitted within 31 days after completion of the test.

5. [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

SECTION D. Source Level Requirements

noncompliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:

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

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

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

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

6. [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.

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

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

9. 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.

10. Actions Related to Noncompliance Demonstrated by a Stack Test:

(a) If the results of a stack test, performed as required by this approval, exceed the level specified in any condition of this approval, the Permittee shall take appropriate corrective actions. Within 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.

(b) If the results of the required stack test exceed any limit defined in this permit the test was not performed in accordance with the stack test protocol or the source and/or air cleaning device was not operated in accordance with the 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 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 permit may be grounds for immediate revocation of the plan approval to operate the affected source.

III. MONITORING REQUIREMENTS.

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

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 (State Only General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

 # 003 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall maintain this source 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 (State Only General Requirements) and/or Section E (Source Group Restrictions).

SECTION D. Source Level Requirements

Source ID: 109 Source Name: AIR MAKE-UP UNITS (3)

Source Capacity/Throughput: 15.000 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 1
2
5

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 110 Source Name: MISC NAT GAS USAGE

Source Capacity/Throughput: 14.000 MCF/HR Natural Gas

Conditions for this source occur in the following groups: 1
2
5

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 111 Source Name: TWO DEGREASER UNITS

Source Capacity/Throughput: N/A PETROLEUM SOLVENT

PROC 111 → STAC Z111

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

 # 001 [25 Pa. Code §129.63]

Degreasing operations

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

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

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

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

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

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

SECTION D. Source Level Requirements

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(7) Paragraph (4) does not apply:

(i) To cold cleaning machines used in extreme cleaning service.

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

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

(b) -(e): Not Applicable.

VII. ADDITIONAL REQUIREMENTS.

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

SECTION D. Source Level Requirements

Source ID: 114 Source Name: NON-EMERGENCY GENERATORS

Source Capacity/Throughput: 82.900 Gal/HR Diesel Fuel

Conditions for this source occur in the following groups: 1
2
7

I. RESTRICTIONS.

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

 # 001 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall keep the monthly record of emission of NOx from each engine. Present month record shall be added with previous 11 month's record to get 12 months rolling total.

V. REPORTING REQUIREMENTS.

 # 002 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall keep the record of NOx emissions from each diesel generator engine and keep the record at site for a period of 5 years.

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION E. Source Group Restrictions.

Group Name: 1

Group Description: Restriction for total suspended particulate matter §123.13 (0.04 gr / DS Cu. Ft.)

Sources included in this group

ID	Name
105	SHELL CORE AND CORE DRYING
107	HEAT TREATING-AUSTEMPER OPERATION
109	AIR MAKE-UP UNITS (3)
110	MISC NAT GAS USAGE
114	NON-EMERGENCY GENERATORS

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 (State Only General Requirements).

III. MONITORING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION E. Source Group Restrictions.

Group Name: 2

Group Description: Restriction for oxides of sulfur §123.21

Sources included in this group

ID	Name
101	CHARGE & PREHEATING
105	SHELL CORE AND CORE DRYING
107	HEAT TREATING-AUSTEMPER OPERATION
109	AIR MAKE-UP UNITS (3)
110	MISC NAT GAS USAGE
114	NON-EMERGENCY GENERATORS

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §123.21]

General

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

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

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

SECTION E. Source Group Restrictions.

Group Name: 3

Group Description: Plan Approval 20-040I , K, and L conditions

Sources included in this group

ID	Name
101	CHARGE & PREHEATING
102	MELTING-TRANSFER-MAG TREA

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Plan Approval 20-040I]
(a) Emissions shall comply with 25 PA Code 123.1, 123.31, & 123.41 for fugitive, odor, and visible emissions respectively.

[Plan Approval 20-040I & L]
(b) No person may permit the emission into the outdoor atmosphere of particulate matter in a manner that the concentration of total particulate matter (both filterable and condensable) in the effluent gas exceeds 0.020 grain per dry standard cubic foot.

[Plan Approval 20-040L]

(c) Combined emissions from Sources 101 and 102 shall not exceed the following:

1. PM: 4.5 tpy based on a 12-month rolling total
2. PM10: 4.5 tpy based on a 12-month rolling total

Throughput Restriction(s).

 # 002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Plan Approval 20-040I & L]

The facility shall not exceed 30,000 tpy throughput based on a 12-month rolling total.

II. TESTING REQUIREMENTS.

 # 003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Plan Approval 20-040I & L]

(a) Within six (6) to twelve (12) months prior to operating permit renewal, the permittee shall conduct a stack test, for total particulate matter (both filterable and condensable) in order to demonstrate compliance with the emission limits set forth in this permit. EPA Methods 5 and 202 or other methods approved by the Department and in accordance with the provisions of Chapter 139 (relating to sampling and testing) shall be used. For testing purposes, the facility throughput shall be operating at greater than 8 tons per hour. An extension may be granted by the Department provided that the permittee submits a written request at least 60 days prior to the end of the 180 days.

(b) The stack test shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department to demonstrate compliance with the particulate matter emission limits for this source. Appropriate U.S. EPA Reference Methods shall be used to determine the emission rates of pollutants. Testing for particulate matter shall include both the filterable and condensable portions.

(c) [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.

SECTION E. Source Group Restrictions.

(d) [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.

(e) [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.

(f) [40 CFR Part 60.8(a), 40 CFR Part 61.13(f) and 40 CFR Part 63.7(g)] 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. For those tests being conducted pursuant to 40 CFR Part 61, a complete test report shall be submitted within 31 days after completion of the test.

(g) [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 noncompliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:

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

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

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

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

(h) [25 Pa. Code § 139.3] All submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

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

(j) [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/ecomm/Login.jsp. If internet submittal cannot be accomplished, the facility shall email electronic submissions to RA-EPNWstacktesting@pa.gov

(k) 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.

Actions Related to Noncompliance Demonstrated by a Stack Test:

(l) If the results of a stack test, performed as required by this approval, exceed the level specified in any condition of this approval, the Permittee shall take appropriate corrective actions. Within 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.

(m) If the results of the required stack test exceed any limit defined in this plan approval, the test was not performed in accordance with the stack test protocol or the source and/or air cleaning device was not operated in accordance with the plan approval, then another stack test shall be performed to determine compliance. Within 120 days of the Permittee

SECTION E. Source Group Restrictions.

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 plan approval, not performing the test in accordance with the stack test protocol or not operating the source and/or air cleaning device in accordance with the plan approval may be grounds for immediate revocation of the permit to operate the affected source.

III. MONITORING REQUIREMENTS.

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

IV. RECORDKEEPING REQUIREMENTS.

 # 004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

[Plan Approval 20-040L]
(a) All records shall be kept for a period of five (5) years and shall be made available to the Department upon request.

[Plan Approval 20-040L]
b) The permittee shall maintain daily records of production throughput. Daily throughput totals will be used to create monthly production totals measured in tons. Production totals from the previous twelve (12) months will be combined to the create a twelve (12) month rolling total.

{Plan Approval 20-040L]
(c) The permittee shall use monthly production throughput totals and the latest facility stack test emission factors to form monthly particulate matter emission totals. Particulate matter emission totals from the previous twelve (12) months shall be combined to form a twelve month rolling total.

[Plan Approval 20-040L]
(d) The permittee shall maintain a record of all preventive maintenance inspections of the control device. These records shall include, at a minimum, the dates of the inspections, the name of the person performing the inspection, any problems or defects identified, any actions taken to correct the problems or defects, any routine maintenance performed, and the quarterly black light leak inspections.

[Plan Approval 20-040L]
(e) The permittee shall record the following operational data from the baghouse (these records may be done with strip charts recorders, data acquisition systems, or manual log entries):

1. Pressure differential - daily defined as once per calendar day

2. Visible emission check - daily defined as once per calendar day (weekly defined as once per calendar week or monthly defined as once per calendar month)

[Plan Approval 20-040L]
(f) The permittee shall record the throughput on a monthly basis and a 12-month rolling total basis.

[Plan Approval 20-040L]
(g) The permittee shall record the hours of operation with the baghouse not in operation on a daily basis, a monthly basis, and a 12-month rolling total basis.

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

 # 005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

SECTION E. Source Group Restrictions.

[Plan Approval 20-040I & L]

(a) The permittee shall perform a daily operational inspection of the control device. As part of this operational inspection the facility shall monitor the pressure drop across the baghouse and shall conduct a visible emission (VE) observation of the baghouse stack. This VE observation shall be performed during a tapping operation, if tapping operations are conducted during daylight hours. The VE observation shall be 60 seconds in length and if any visible emissions are observed, a Method 9 observation shall be conducted to determine compliance with the opacity limitations. The VE observations shall be done daily for a period of one month and if there is no detectable VE then the facility may perform weekly VE observations for a period of 4 weeks and if there is no detectable VE then the facility may perform monthly VE observations during tapping. Any observation of VE will start the sequence over again.

[Plan Approval 20-040I & L]

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

[Plan Approval 20-040I & L]

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

[Plan Approval 20-040I & L]

(d) The permittee shall adhere to the approved indicator range for the baghouse so that operation within the range shall provide reasonable assurance of compliance. A departure from the specified indicator range over a specified averaging period shall be defined as an excursion. The approved indicator range for the following shall be determined during the initial performance test or any subsequently approved performance tests unless otherwise stated:

1. Pressure drop: 1.0 to 8.0 inches water gage or as established during compliant testing

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

[Plan Approval 20-040I & L]

(e) The permittee shall operate the control device at all times that the source is in operation with the following exception:

1. The facility may bypass the baghouse only during idle periods and only for performing preventative maintenance and / or repairs on the baghouse. Idle periods are defined as periods when the facility is not in production (charging, melting, tapping, preheating, or treating iron).

[Plan Approval 20-040I & L]

(f) The permittee shall perform quarterly "black-light" leak inspections of the baghouse. An excursion is defined as a failure to perform and record the quarterly leak inspections.

[Plan Approval 20-040I & L]

(g) The permittee shall maintain and operate the source and control device in accordance with the manufacturer's specifications and in accordance with good air pollution control practices.

SECTION E. Source Group Restrictions.

VII. ADDITIONAL REQUIREMENTS.

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

SECTION E. Source Group Restrictions.

Group Name: 5

Group Description: Natural gas used sources

Sources included in this group

ID	Name
109	AIR MAKE-UP UNITS (3)
110	MISC NAT GAS USAGE

I. RESTRICTIONS.

Fuel Restriction(s).

 # 001 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall use only natural gas as a fuel.

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

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

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

 # 002 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall maintain this source 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 (State Only General Requirements).

SECTION E. Source Group Restrictions.

Group Name: 6

Group Description: Conditions of PA 20-040J

Sources included in this group

ID	Name
106AA	BOND SILO

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

1) Emission of particulate matter from the source into the atmosphere shall not exceed 0.005 grains per dry standard cubic foot (filterable).

II. TESTING REQUIREMENTS.

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

III. MONITORING REQUIREMENTS.

 # 002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

1) The owner/operator shall install, maintain, calibrate as recommended by the manufacturer, and operate a magnehelic pressure gauge (or equivalent) at a conveniently readable location to measure the pressure drop across the collector. The gauge shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale.

2) The owner/operator shall perform a monthly preventative maintenance (PM) inspection of the cartridge filter dust collector.

IV. RECORDKEEPING REQUIREMENTS.

 # 003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

1) All logs and required records shall be maintained on site for a minimum of five years and shall be made available to the Department upon request.

2) An inventory of spare cartridge filters shall be kept onsite and shall be updated quarterly at a minimum.

3) The owner/operator shall record the weight of all material entering the silo. A monthly total (calendar) shall be calculated. These records shall be maintained in a log.

4) The owner/operator shall maintain a preventative maintenance log documenting the following at a minimum:

a) Name, title, and signature of the observer

b) Inspection procedures

c) Time and date of observation

d) Pressure drop taken during the inspection

e) Observations and any corrective actions

f) A monthly visual inspection of the dust collector interior for dislodged filters, wear, and dust build-up inside of the housing

g) A weekly visible inspection of the dust collector effluent for the presence of visible emissions

SECTION E. Source Group Restrictions.

h) All other maintenance activities performed on the control device which shall be performed at the frequency recommended by the manufacturer.

5) The owner/operator shall record pressure drop readings across the cartridge filter, as measured in inches of water. This shall occur at a minimum of once per week. The record shall be recorded in a log and include at a minimum:

a) Time and date of observation

b) Name, title, and signature of the observer

c) The observation made

d) Any corrective action taken as result of the observation

V. REPORTING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

 # 004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

1) The sum of all material entering the silo (throughput) shall not exceed a total 2,250 tons in any given calendar month.

2) The owner/operator shall operate the source and its' air cleaning device in accordance with manufacturers' specifications and with good air pollution control practice.

3) The owner/operator shall retain on site a number of spare cartridge filters equal to 20% of the cartridge filters in use or a number of spare cartridge filters as recommended by the manufacturer, whichever is greater.

4) A copy of both the dust collector and the cartridge filter manufacturer’s operational and maintenance guide/literature shall be kept onsite.

5) The permittee shall adhere to the following approved Indicator Range for the baghouse so that operation within the range shall provide reasonable assurance of compliance. A departure from the specified Indicator Range over a specified Averaging Period shall be defined as an Excursion. The approved Indicator Range and specified Averaging Period shall be the following:

1. Indicator Range: 0.1 to 6.0 inches water

2. 1 minute Averaging Period

The permittee, with prior Departmental approval, may conduct additional performance tests to determine a new Indicator Range and Averaging Period. The Department may also change the Indicator Range or Averaging Period if it is determined by the Department to be necessary.

Within 24-hours of an excursion discovery, the permittee shall perform a maintenance inspection on the control device and take corrective action. Records of all maintenance activities on the control device, and corrective actions taken, shall be maintained on site for a minimum period of five years. In the event of more than one documented excursion outside the prescribed Indicator Range in any calendar quarter the permittee shall submit a corrective measure plan to the Department. Corrective measures may include an increase of the frequency of required preventative maintenance inspections of the control device, a modification of the Indicator Range, a modification of the Averaging Period, or other appropriate action as approved by the Department. Upon receipt of a corrective measure plan the Department shall determine the appropriate corrective measure on a case-by case basis.

SECTION E. Source Group Restrictions.

VII. ADDITIONAL REQUIREMENTS.

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

SECTION E. Source Group Restrictions.

Group Name: 7

Group Description: Non-Emergency Generators, Subpart ZZZZ conditions

Sources included in this group

ID	Name
114	NON-EMERGENCY GENERATORS

I. RESTRICTIONS.

Emission Restriction(s).

 # 001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6603]

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

What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stati

Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to this subpart.

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

[Table 2d to Subpart ZZZZ of Part 63]

3. For each non-emergency, non-black start CI stationary RICE >500 HP, you must meet the following requirement, except during periods of startup:

a. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd at 15 percent O2; or

b. Reduce CO emissions by 70 percent or more.

During periods of startup you must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

[78 FR 6709, Jan. 30, 2013]

(b) - (f) [Do not apply]

[75 FR 9675, Mar. 3, 2010, as amended at 75 FR 51589, Aug. 20, 2010; 76 FR 12866, Mar. 9, 2011; 78 FR 6701, Jan. 30, 2013]

[Applies to Austemper Engine and Auto Port Engine]

Fuel Restriction(s).

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

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

What fuel requirements must I meet if I own or operate an existing stationary CI RICE?

(a) If you own or operate an existing non-emergency, non-black start CI stationary RICE with a site rating of more than 300 brake HP with a displacement of less than 30 liters per cylinder that uses diesel fuel, you must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel.

(b) Beginning June 1, 2010. Except as otherwise specifically provided in this subpart, all NR and LM diesel fuel is subject to the following per-gallon standards:

(1) Sulfur content.

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(i) 15 ppm maximum for NR diesel fuel.

(ii) [Does not apply]

(2) Cetane index or aromatic content, as follows:

(i) A minimum cetane index of 40; or

(ii) A maximum aromatic content of 35 volume percent.

(b) - (d) [Do not apply]

[78 FR 6702, Jan. 30, 2013]

[Applies to Austemper Engine and Auto Port Engine]

II. TESTING REQUIREMENTS.

 # 003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6612]

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

By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake (please see below)

If you own or operate an existing 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 stationary RICE located at an area source of HAP emissions you are subject to the requirements of this section.

(a) You must conduct any initial performance test or other initial compliance demonstration according to Tables 4 and 5 to this subpart that apply to you within 180 days after the compliance date that is specified for your stationary RICE in §63.6595 and according to the provisions in §63.7(a)(2).

[From Table 4 to Subpart ZZZZ of Part 63 - Requirements for Performance Tests]

1. For each CI stationary RICE complying with the requirement to reduce CO emissions, you must:

i. Select the sampling port location and the number/location of traverse points at the inlet and outlet of the control device; and

ii. Measure the O2 at the inlet and outlet of the control device using Method 3 or 3A or 3B of 40 CFR part 60, appendix A-2, or ASTM Method D6522-00 (Reapproved 2005)[*][***] (heated probe not necessary); and

iii. Measure the CO at the inlet and the outlet of the control device using ASTM D6522-00 (Reapproved 2005)[*][**][***] (heated probe not necessary) or Method 10 of 40 CFR part 60, appendix A-4.

According to the following requirements:

(a) For CO and O2 measurement, ducts =6 inches in diameter may be sampled at a single point located at the duct centroid and ducts >6 and =12 inches in diameter may be sampled at 3 traverse points located at 16.7, 50.0, and 83.3% of the measurement line (`3-point long line'). If the duct is >12 inches in diameter and the sampling port location meets the two and half-diameter criterion of Section 11.1.1 of Method 1 of 40 CFR part 60, appendix A-1, the duct may be sampled at `3-point long line'; otherwise, conduct the stratification testing and select sampling points according to Section 8.1.2 of Method 7E of 40 CFR part 60, appendix A-4.

(b) Measurements to determine O2 must be made at the same time as the measurements for CO concentration.

(c) The CO concentration must be at 15 percent O2, dry basis.

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3. For each stationary RICE complying with the requirement to limit the concentra-tion of formalde-hyde or CO in the stationary RICE exhaust, you must:

i. Select the sampling port location and the number/location of traverse points at the exhaust of the stationary RICE; and

(a) For formaldehyde, CO, O2, and moisture measurement, ducts =6 inches in diameter may be sampled at a single point located at the duct centroid and ducts >6 and =12 inches in diameter may be sampled at 3 traverse points located at 16.7, 50.0, and 83.3% of the measurement line (`3-point long line'). If the duct is >12 inches in diameter and the sampling port location meets the two and half-diameter criterion of Section 11.1.1 of Method 1 of 40 CFR part 60, appendix A, the duct may be sampled at `3-point long line'; otherwise, conduct the stratification testing and select sampling points according to Section 8.1.2 of Method 7E of 40 CFR part 60, appendix A. If using a control device, the sampling site must be located at the outlet of the control device.

ii. Determine the O2 concentration of the stationary RICE exhaust at the sampling port location using Method 3 or 3A or 3B of 40 CFR part 60, appendix A-2, or ASTM Method D6522-00 (Reapproved 2005)[*] (heated probe not necessary); and

(a) Measurements to determine O2 concentration must be made at the same time and location as the measurements for formaldehyde or CO concentration.

iii. Measure the moisture content of the station-ary RICE exhaust at the sampling port location using Method 4 of 40 CFR part 60, appendix A-3, or Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03[*]; and

(a) Measurements to determine moisture content must be made at the same time and location as the measurements for formaldehyde or CO concentration.

iv. [Does not apply]

v. measure CO at the exhaust of the station-ary RICE using Method 10 of 40 CFR part 60, appendix A-4, ASTM Method D6522-00 (2005)[*][***], Method 320 of 40 CFR part 63, appendix A, or ASTM D6348-03[*]

(a) CO concentration must be at 15 percent O2, dry basis. Results of this test consist of the average of the three 1-hour or longer runs.

*[You may also use Methods 3A and 10 as options to ASTM-D6522-00 (2005). You may obtain a copy of ASTM-D6522-00 (2005) from at least one of the following addresses: American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, or University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.]

**[You may obtain a copy of ASTM-D6348-03 from at least one of the following addresses: American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, or University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.]

[79 FR 11290, Feb. 27, 2014]

(b) [Does not apply]

[75 FR 9676, Mar. 3, 2010, as amended at 75 FR 51589, Aug. 20, 2010]

[Applies to Austemper Engine and Auto Port Engine]

 # 004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6615]

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

When must I conduct subsequent performance tests?

If you must comply with the emission limitations and operating limitations, you must conduct subsequent performance tests as specified in Table 3 of this subpart.

[Table 3 to Subpart ZZZZ of Part 63—Subsequent Performance Tests]

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4. For each existing non-emergency, non-black start CI stationary RICE >500 HP that are not limited use stationary RICE complying with the requirement to limit or reduce CO emissions and not using a CEMS, you must conduct subsequent performance tests every 8,760 hours or 3 years, whichever comes first.

[78 FR 6711, Jan. 30, 2013]

[Applies to Austemper Engine and Auto Port Engine]

 # 005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6620]

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

What performance tests and other procedures must I use?

(a) You must conduct each performance test in Tables 3 and 4 of this subpart that applies to you.

(b) Each performance test must be conducted according to the requirements that this subpart specifies in Table 4 to this subpart. If you own or operate a non-operational stationary RICE that is subject to performance testing, you do not need to start up the engine solely to conduct the performance test. Owners and operators of a non-operational engine can conduct the performance test when the engine is started up again. The test must be conducted at any load condition within plus or minus 10 percent of 100 percent load for the stationary RICE listed in paragraphs (b)(1) through (4) of this section.

(1) - (4) [Do not apply]

(c) [Reserved]

(d) You must conduct three separate test runs for each performance test required in this section, as specified in §63.7(e)(3). Each test run must last at least 1 hour, unless otherwise specified in this subpart.

(e)(1) You must use Equation 1 of this section to determine compliance with the percent reduction requirement:

[Refer to 40 CFR 63.6620(e)(1) for Equation 1]

(2) You must normalize the CO, THC, or formaldehyde concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen, or an equivalent percent carbon dioxide (CO2). If pollutant concentrations are to be corrected to 15 percent oxygen and CO2 concentration is measured in lieu of oxygen concentration measurement, a CO2 correction factor is needed. Calculate the CO2 correction factor as described in paragraphs (e)(2)(i) through (iii) of this section.

(i) Calculate the fuel-specific Fo value for the fuel burned during the test using values obtained from Method 19, Section 5.2, and the following equation:

[Refer to 40 CFR 63.6620(e)(2)(i) for Equation 2]

(ii) Calculate the CO2 correction factor for correcting measurement data to 15 percent O2, as follows:

[Refer to 40 CFR 63.6620(e)(2)(ii) for Equation 3]

(iii) Calculate the CO, THC, and formaldehyde gas concentrations adjusted to 15 percent O2 using CO2 as follows:

[Refer to 40 CFR 63.6620(e)(2)(iii) for Equation 4]

(f) - (h) [Do not apply]

(i) The engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the notification of compliance status. The following information must be included in the written report: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test,

SECTION E. Source Group Restrictions.

and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accurate in percentage of true value must be provided.

[69 FR 33506, June 15, 2004, as amended at 75 FR 9676, Mar. 3, 2010; 78 FR 6702, Jan. 30, 2013]

[Applies to Austemper Engine and Auto Port Engine]

 # 006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6630]

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

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

(a) You must demonstrate initial compliance with each emission limitation, operating limitation, and other requirement that applies to you according to Table 5 of this subpart.

[Table 5 to Subpart ZZZZ of Part 63]

1. For each existing non-emergency stationary CI RICE >500 HP located at an area source of HAP complying with the requirement to reduce CO emissions and using oxidation catalyst, and using a CPMS, you have demonstrated initial compliance if:

i. The average reduction of emissions of CO determined from the initial performance test achieves the required CO percent reduction; and

ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b); and

iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.

[78 FR 6712, Jan. 30, 2013]

(b) [Does not apply]

(c) You must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in §63.6645.

(d) - (e) [Do not apply]

[69 FR 33506, June 15, 2004, as amended at 78 FR 6704, Jan. 30, 2013]

[Applies to Austemper Engine and Auto Port Engine]

III. MONITORING REQUIREMENTS.

 # 007 [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) [Does not apply]

(b) If you are required to install a continuous parameter monitoring system (CPMS) as specified in Table 5 of this subpart, you must install, operate, and maintain each CPMS according to the requirements in paragraphs (b)(1) through (6) of this section. For an affected source that is complying with the emission limitations and operating limitations on March 9, 2011, the requirements in paragraph (b) of this section are applicable September 6, 2011.

(1) You must prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined in paragraphs (b)(1)(i) through (v) of this section and in §63.8(d). As specified in §63.8(f)(4), you may request approval of monitoring system quality assurance and quality control

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procedures alternative to those specified in paragraphs (b)(1) through (5) of this section in your site-specific monitoring plan.

(i) The performance criteria and design specifications for the monitoring system equipment, including the sample interface, detector signal analyzer, and data acquisition and calculations;

(ii) Sampling interface (e.g., thermocouple) location such that the monitoring system will provide representative measurements;

(iii) Equipment performance evaluations, system accuracy audits, or other audit procedures;

(iv) Ongoing operation and maintenance procedures in accordance with provisions in §63.8(c)(1)(ii) and (c)(3); and

(v) Ongoing reporting and recordkeeping procedures in accordance with provisions in §63.10(c), (e)(1), and (e)(2)(i).

(2) You must install, operate, and maintain each CPMS in continuous operation according to the procedures in your site-specific monitoring plan.

(3) The CPMS must collect data at least once every 15 minutes (see also §63.6635).

(4) For a CPMS for measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit) or 1 percent of the measurement range, whichever is larger.

(5) You must conduct the CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in your site-specific monitoring plan at least annually.

(6) You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.

[Applies to Austemper Engine and Auto Port Engine]

(c) - (d) [Do not apply]

(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) - (3) [Do not apply]

(4) An existing non-emergency, non-black start stationary CI RICE with a site rating less than or equal to 300 HP located at an area source of HAP emissions;

(5) - (10): Not applicable.

[Applies to Melt Cooling Engine]

(f) [Does not apply]

(g) If you own or operate an existing non-emergency, non-black start CI engine greater than or equal to 300 HP that is not equipped with a closed crankcase ventilation system, you must comply with either paragraph (g)(1) or paragraph (2) of this section. Owners and operators must follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters, or can request the Administrator to approve different maintenance requirements that are as protective as manufacturer requirements. [Non-applicable text omitted]

(1) Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, or

SECTION E. Source Group Restrictions.

(2) Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates and metals.

[Applies to Austemper Engine and Auto Port Engine]

(h) If you operate existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.

(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 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. [Applies to Melt Cooling Engine]

(j) [Does not apply]

[69 FR 33506, June 15, 2004, as amended at 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010; 76 FR 12866, Mar. 9, 2011; 78 FR 6703, Jan. 30, 2013]

 # 008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6635]

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

How do I monitor and collect data to demonstrate continuous compliance?

(a) If you must comply with emission and operating limitations, you must monitor and collect data according to this section.

(b) Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, you must monitor continuously at all times that the stationary RICE is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

(c) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. You must, however, use all the valid data collected during all other periods.

[69 FR 33506, June 15, 2004, as amended at 76 FR 12867, Mar. 9, 2011]

[Applies to Austemper Engine and Auto Port Engine]

 # 009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6640]

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

How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?

(a) You must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements 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 E. Source Group Restrictions.

[Table 6 to Subpart ZZZZ of Part 63]

9. For each existing non-emergency stationary CI RICE =<300 HP located at an area source of HAP complying with the Work or Management practices, you must demonstrate continuous compliance by:

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

ii. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[Applies to Melt Cooling Engine]

10. For each existing stationary CI RICE >500 HP that are not limited use stationary RICE complying with the requirement to reduce CO emissions, or limit the concentration of CO in the stationary RICE exhaust, and using oxidation catalyst, you must demonstrate continuous compliance by:

i. Conducting performance tests every 8,760 hours or 3 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit; and

ii. Collecting the catalyst inlet temperature data according to §63.6625(b); and

iii. Reducing these data to 4-hour rolling averages; and

iv. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and

v. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.

[Applies to Austemper Engine and Auto Port Engine]

[78 FR 6715, Jan. 30, 2013]

(b) You must report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650. If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to your stationary RICE. [Applies to Austemper Engine and Auto Port Engine]

(c) - (d) [Do not apply]

(e) You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. [Non-applicable text omitted]

(f) [Does not apply]

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010; 78 FR 6704, Jan. 30, 2013]

IV. RECORDKEEPING REQUIREMENTS.

 # 010 [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?

SECTION E. Source Group Restrictions.

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

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

(3) Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).

(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) For each CEMS or CPMS, you must keep the records listed in paragraphs (b)(1) through (3) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Previous (i.e., superseded) versions of the performance evaluation plan as required in §63.8(d)(3).

(3) Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in §63.8(f)(6)(i), if applicable.

(c) [Does not apply]

(d) You must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to you.

(e) You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE;

(1) - (2) [Do not apply]

(3) An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to this subpart.

(f) [Does not apply]

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010; 75 FR 51592, Aug. 20, 2010; 78 FR 6706, Jan. 30, 2013]

 # 011 [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).

SECTION E. Source Group Restrictions.

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010]

V. REPORTING REQUIREMENTS.

 # 012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6645]

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

What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified if you own or operate any of the following;

(1) [Does not apply]

(2) An existing stationary RICE located at an area source of HAP emissions.

(3) - (5) [Do not apply]

(b) - (f) [Do not apply]

(g) If you are required to conduct a performance test, you must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in §63.7(b)(1).

(h) If you are required to conduct a performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart, you must submit a Notification of Compliance Status according to §63.9(h)(2)(ii).

(1) For each initial compliance demonstration required in Table 5 to this subpart that does not include a performance test, you must submit the Notification of Compliance Status before the close of business on the 30th day following the completion of the initial compliance demonstration.

(2) For each initial compliance demonstration required in Table 5 to this subpart that includes a performance test conducted according to the requirements in Table 3 to this subpart, you must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th day following the completion of the performance test according to §63.10(d)(2).

(i) [Does not apply]

[73 FR 3606, Jan. 18, 2008, as amended at 75 FR 9677, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010; 78 FR 6705, Jan. 30, 2013]

[Applies to Austemper Engine and Auto Port Engine]

 # 013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6650]

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

What reports must I submit and when?

(a) You must submit each report in Table 7 of this subpart that applies to you.

[Table 7 to Subpart ZZZZ of Part 63]

1. For each non-black start stationary CI RICE >300 HP located at an area source of HAP, you must submit a compliance report. The report must contain:

a. If there are no deviations from any emission limitations or operating limitations that apply to you, a statement that there were no deviations from the emission limitations or operating limitations during the reporting period. If there were no periods during which the CMS, including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were not periods during which the CMS was out-of-control during the reporting period; or

SECTION E. Source Group Restrictions.

i. You must submit the report semiannually according to the requirements in §63.6650(b)(1)-(5) for engines that are not limited use stationary RICE subject to numerical emission limitations; and

ii. [Does not apply]

b. If you had a deviation from any emission limitation or operating limitation during the reporting period, the information in §63.6650(d). If there were periods during which the CMS, including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), the information in §63.6650(e); or

i. You must sumit the report semiannually according to the requirements in §63.6650(b).

c. If you had a malfunction during the reporting period, the information in §63.6650(c)(4).

i. You must submit the report semiannually according to the requirements in §63.6650(b).

[78 FR 6719, Jan. 30, 2013]

(b) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 7 of this subpart and according to the requirements in paragraphs (b)(1) through (b)(9) of this section.

(1) For semiannual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.6595.

(2) For semiannual Compliance reports, the first Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in §63.6595.

(3) For semiannual Compliance reports, each subsequent Compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) For semiannual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(5) For each stationary RICE that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6 (a)(3)(iii)(A), you may submit the first and subsequent Compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (b)(4) of this section.

(6) - (9) [Do not apply]

(c) The Compliance report must contain the information in paragraphs (c)(1) through (6) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with §63.6605(b), including actions taken to correct a malfunction.

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(5) If there are no deviations from any emission or operating limitations that apply to you, a statement that there were no deviations from the emission or operating limitations during the reporting period.

(6) If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period.

(d) [Does not apply]

(e) For each deviation from an emission or operating limitation occurring for a stationary RICE where you are using a CMS to comply with the emission and operating limitations in this subpart, you must include information in paragraphs (c)(1) through (4) and (e)(1) through (12) of this section.

(1) The date and time that each malfunction started and stopped.

(2) The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks.

(3) The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8).

(4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.

(5) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.

(6) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.

(7) A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period.

(8) An identification of each parameter and pollutant (CO or formaldehyde) that was monitored at the stationary RICE.

(9) A brief description of the stationary RICE.

(10) A brief description of the CMS.

(11) The date of the latest CMS certification or audit.

(12) A description of any changes in CMS, processes, or controls since the last reporting period.

(f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.

(g) - (h) [Do not apply]

[69 FR 33506, June 15, 2004, as amended at 75 FR 9677, Mar. 3, 2010; 78 FR 6705, Jan. 30, 2013]

[Applies to Austemper Engine and Auto Port Engine]

SECTION E. Source Group Restrictions.

VI. WORK PRACTICE REQUIREMENTS.

 # 014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6603]

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

What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?

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

[Table 2b to Subpart ZZZZ of Part 63]

2. For each existing CI stationary RICE >500 HP complying with the requirement to limit or reduce the concentration of CO in the stationary RICE exhaust and using an oxidation catalyst, you must meet the following operating limitation, except during periods of startup:

a. maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water from the pressure drop across the catalyst that was measured during the initial performance test; and

b. maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F.*

*[Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.8(f) for a different temperature range.]

[78 FR 6707, Jan. 30, 2013]

(b) - (f) [Do not apply]

[75 FR 9675, Mar. 3, 2010, as amended at 75 FR 51589, Aug. 20, 2010; 76 FR 12866, Mar. 9, 2011; 78 FR 6701, Jan. 30, 2013]

[Applies to Austemper Engine and Auto Port Engine]

 # 015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6603]

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

What emission limitations, operating limitations, and other requirements must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?

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

[Table 2d to Subpart ZZZZ of Part 63]

1. For each non-emergency, non-black start CI stationary RICE =<300 HP, you must meet the following requirement, except during periods of startup:

a. Change oil and filter every 1,000 hours of operation or annually, whichever comes first;*

b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary;

c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

During periods of startup you must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

*[Sources have the option to utilize an oil analysis program as described in §63.6625(i) or (j) in order to extend the specified oil change requirement in Table 2d of this subpart.]

SECTION E. Source Group Restrictions.

[78 FR 6709, Jan. 30, 2013]

(b) - (f) [Do not apply]

[75 FR 9675, Mar. 3, 2010, as amended at 75 FR 51589, Aug. 20, 2010; 76 FR 12866, Mar. 9, 2011; 78 FR 6701, Jan. 30, 2013]

[Applies to Melt Cooling Engine]

 # 016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6605]

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

What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations, operating limitations, and other requirements in this subpart that apply to you at all times.

(b) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[75 FR 9675, Mar. 3, 2010, as amended at 78 FR 6702, Jan. 30, 2013]

VII. ADDITIONAL REQUIREMENTS.

 # 017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6580]

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

What is the purpose of subpart ZZZZ?

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

[73 FR 3603, Jan. 18, 2008]

 # 018 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6585]

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

Am I subject to this subpart?

You are subject to this subpart if you own or operate a stationary RICE at a major or area source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/stand.

(a) A stationary RICE is any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.

(b) [Does not apply]

(c) An area source of HAP emissions is a source that is not a major source.

(d) - (f) [Do not apply]

[69 FR 33506, June 15, 2004, as amended at 73 FR 3603, Jan. 18, 2008; 78 FR 6700, Jan. 30, 2013]

SECTION E. Source Group Restrictions.

 # 019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6590]

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

What parts of my plant does this subpart cover?

This subpart applies to each affected source.

(a) Affected source. An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand.

(1) Existing stationary RICE.

(i) - (ii) [Does not apply]

(iii) For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

(iv) [Does not apply]

(2) - (3) [Do not apply]

(b) - (c) [Do not apply]

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008; 75 FR 9674, Mar. 3, 2010; 75 FR 37733, June 30, 2010; 75 FR 51588, Aug. 20, 2010; 78 FR 6700, Jan. 30, 2013]

 # 020 [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?

(a) Affected sources. (1) If you have an existing stationary CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than May 3, 2013.

(2) - (7) [Do not apply]

(b) [Does not apply]

(c) If you own or operate an affected source, you must meet the applicable notification requirements in §63.6645 and in 40 CFR part 63, subpart A.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008; 75 FR 9675, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010; 78 FR 6701, Jan. 30, 2013]

 # 021 [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.

[Refer to Table 8 to Subpart ZZZZ of Part 63]

[75 FR 9678, Mar. 3, 2010]

 # 022 [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

SECTION E. Source Group Restrictions.

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).

 # 023 [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?

[Refer to 40 CFR §63.6675 for definitions applicable to Subpart ZZZZ.]

SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this State Only facility.

SECTION G. Emission Restriction Summary.

Source Id	Source Description

101 CHARGE & PREHEATING

Emission Limit			Pollutant
4.500	Tons/Yr	based on a 12-month rolling total	PM10
500.000	PPMV	Dry basis	SOX
0.020	gr/DRY FT3	filterable & condensable	TSP
4.500	Tons/Yr	based on a 12-month rolling total	TSP

102 MELTING-TRANSFER-MAG TREA

Emission Limit			Pollutant
4.500	Tons/Yr	based on a 12-month rolling total	PM10
0.020	gr/DRY FT3	filterable & condensable	TSP
4.500	Tons/Yr	based on a 12-month rolling total	TSP

103 POURING-COOLING-SHAKEOUT (103 & 103A)

Emission Limit			Pollutant
0.020	gr/DRY FT3		TSP

103A DISA MATCH CASTING LINE (POURING/COOLING/SHAKEOUT)

Emission Limit			Pollutant
500.000	PPMV	dry basis	SOX
0.020	gr/DRY FT3		TSP

104A NEW GRINDING & GOFF

Emission Limit			Pollutant
0.040	gr/DRY FT3		TSP

104B GRINDING & CLEANING

Emission Limit			Pollutant
0.040	gr/DRY FT3		TSP

105 SHELL CORE AND CORE DRYING

Emission Limit			Pollutant
500.000	PPMV	Dry basis	SOX
0.040	gr/DRY FT3		TSP

106 SAND HANDLING

Emission Limit			Pollutant
1.940	Lbs/Hr		TSP

106AA BOND SILO

Emission Limit			Pollutant
0.005	gr/DRY FT3		PM10

SECTION G. Emission Restriction Summary.

Source Id	Source Description
107	HEAT TREATING-AUSTEMPER OPERATION

Emission Limit			Pollutant
500.000	PPMV	Dry basis	SOX
0.040	gr/DRY FT3		TSP

Source Id	Source Description
109	AIR MAKE-UP UNITS (3)

Emission Limit			Pollutant
500.000	PPMV	Dry basis	SOX
0.040	gr/DRY FT3		TSP

Source Id	Source Description
110	MISC NAT GAS USAGE

Emission Limit			Pollutant
500.000	PPMV	Dry basis	SOX
0.040	gr/DRY FT3		TSP

Source Id	Source Description
114	NON-EMERGENCY GENERATORS

Emission Limit			Pollutant
23.000	PPMV	Dry basis, Austemper and Auto Port Engines	CO
500.000	PPMV	Dry basis	SOX
0.040	gr/DRY FT3		TSP

Site Emission Restriction Summary

Emission Limit			Pollutant
0.800	Lbs/Tons	metal charged, sources 101, 102, 103, & 103A	TSP
0.060	Lbs/Tons	total metal HAP per ton of metal charged	Hazardous Air Pollutants

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(a) There are no applicable emission, testing, monitoring, recordkeeping, or reporting requirements for

(1) Cooling towers(2),
(2) Goff 6 cubic foot belt blast exhausts inside the facility through a baghouse.

(b) The emission limitations in Section G of this permit are provided for informational purpose only. The actual emission limitations and requirements are contained in sections C, D, and E of this permit.

(c) Z-101 consists only one roof extractor.

Z-102 consists of 4 roof extractors.

Z-103: fugitive stack for Source ID #103 consists of 1 roof exractor for Osborne location, four roof exhausters for Hunter deck and 3 roof extractors for 2110 Disa.

Z-103A: Fugitive stack for Source ID #103A consists of 1 Wall fan and 3 Roof extrators for PCS: Dismatch

Z1-05A and Z-105B consists of 1 wall and 3 roof extracors respectively.

Z-106 Fugitive stack for Source ID #106 consists of 1 wall fans and 3 roof fans.

(d) The following control devices are exhausting inside the facility and regarded insignificant: and there are no applicable requirements for those sources:

DisaMatch Filter, Dantherm Model FMK25-2E, 300 CFM than exhausts inside the facility.

Source 105- Shell Core making, no bake core making, and Core drying ovens consists of the following:

1. 1@ Dependable Model 100 Shell Core Machine

2. 1@ Dependable Model E-200 Shell Core Machine

There is a wall exhauster associated with these machines. The machines are manually operated antiques used probably less than ten hours a year to make some very short run cores.

3. 4@ Redford RS-16 Shell Core machines

There is a wall exhauster associated with these machines and a roof exhauster that would also catch anything not captured by the Harrison exhaust hoods and stack

4. 1@ Harrison 2424 Shell Core machine

It has a hood and stack- no controls.

5. 2@ Despatch Core Ovens- used for drying cores-
Each has a small stack and they share a roof exhauster

6. 1@ Palmer M50XL No Bake Machine comprised of sand heater, sand mixer and core blower- no controls except that teh sand heater vents to the baghouse listed next

7. 1@ Core Sand Silo controlled by Torit baghouse which vents indoors.

8. Recently the facility installed one shell core machines made by Harrison Machine Company. The machine already installed. The source also includes a sand silo indoors with a baghouse that controls it also vents indoors.

106: Sand Handling: There is a baghouse controlling the muller: There is a bin vent controlling the main new sand silo both of which are venting indoors.

104A: Cleaning: Spinner hanger is gone, but 6 Cubic Feet Belt Web Blast will be replacing it iprior to renewal of the permit on

SECTION H. Miscellaneous.

or after March 1, 2015.

No source number: There is a gas fired box furnace for heat treating castings which vents indoors.

(e) The facility provided a complete listing of the sources and individual units that comprise those sources in an email dated December 19, 2014. The information from the listing is as follows:

Source 101: Charge Makeup and Preheat

Trucks delivering scrap metal and pig iron to the scrap bay;

Forklift trucks delivering gating, risers, and scrap castings to the scrap bay Bridge crane using magnet to move scrap and pig iron into piles and to the charge scale Venetta Scrap Preheater 3000 pounds capacity 2 Charge Buckets 3000 pounds capacity used to transfer heated scrap to the melt furnaces.

There is one roof exhauster (21) in the scrap bay- Z-101.

The emissions from the preheater and from transferring heated charges into the charge buckets is captured by BH-15.

Note that under the previous permit there had been a stack on the feed end of the preheater that vented directly to atmosphere but that stack is now captured by the BH-15

Source 102: Melting, Transfer and Mag Treatment

The two charge buckets involved in Source 101 also get involved with Source 102 as they bring the charge materials in to put them into the melt furnaces.

Three Ajax 12 tons capacity each coreless induction melting furnaces Metallurgical lab sample grinder that is exhausted into a small vacuum cleaner type dust collector which vents indoors.

4@ 6000 pound capacity Mag Treatment Tundish Ladles

2@ 6000 pound transfer ladles- but these are not in service and have never been used

5@ 1000 pound capacity Mag Treatment Tundish Ladles

1@ 3000 pound open top transfer ladle

3@ 500 pound capacity pouring ladles- note these are involved in Source 102 only because they are receiving the transferred iron. Their main function is related to Source 103.

13@ Starter block/pig molds

1@ Natural gas fired ladle heating station near the melt furnace for the 6000 pound Mag Treatment Tundish Ladle

3@ Natural gas fired ladle heating stations for the 3000 pound transfer ladle which may also be used to heat the 1000 pound capacity Mag Treatment Tundish ladles when they are used or to dry the wash on the starter block/pig molds when they are used

8@ natural gas fired ladle heating stations at the ladle reline area used to cure ladles and heat/cure refractory for various furnace lids south end of plant Ladle chipping/cleaning repair station south end of plant.

Abrasive saw for cutting bricks in ladle reline area - not exhausted.

2110 Disa Autopour- this participates in the transfer by receiving iron from the 6000 pound capacity Mag Treatment Tundish ladles. It will also be listed under Source 103 Pouring, Cooling Shakeout.

DisaMatch 130 Autopour- - this participates in the transfer by receiving iron from the 6000 pound capacity Mag Treatment Tundish ladles. It will also be listed under Source 103A Pouring, Cooling Shakeout.

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Most of the emissions are captured by BH-15.

Emissions not captured by BH-15 may leave the building through building openings or several roof and wall exhausters.

There are two roof exhausters (19) & (20) above the melting furnaces.

Under the right conditions it is possible that fugitives from the melt and ladle heating functions could exit the building through the scrap bay roof exhauster (21).

There is a roof exhauster (1) in the gangway north east of the melting furnaces.

There is one roof exhauster (2) in what used to be the lost foam area east of the melting furnaces.

There are two roof exhausters (4) & (5) in the gangway just west of the DisaMatch 130.
There is a wall exhauster (3) north of the DisaMatch 130.

There are three roof exhausters (9), (12) and (14) at the far south end of the foundry that are associated with the ladle reline operation.

All of these could exhaust fugitives from Source 102.

Source 103: Pouring Cooling Shakeout- everything but DisaMatch 130

2110 MK4 Series DISAMATIC Vertical Molding machine with cooling lines, shakeout conveyors, rated to produce 335 molds per hour at up to 200 pounds of sand per mold.

2110 Autopour- manufactured by Duca Manufacturing also listed in Source 102
Disc sander in “maintenance tunnel” used to clean up stopper rod cleanout plunger
Hunter #3 molding machine and associated pouring cooling shakeout area and conveyors.

2@ natural gas ladle heating torches at the Hunter pouring area.

3@ 500 pound capacity pouring ladles also listed in Source 102.

Roof exhausters associated with these operations are: (8), (10), (11) & (13).

Source 103A: Pouring Cooling Shakeout- just DisaMatch 130

DisaMatch 130 plus associated Summit mold handling system, shakeout conveyors, etc.

DisaMatch Autopour manufactured by Duca Manufacturing.

The Shakeout is exhausted into BH-13.

Fugitives could be captured by wall exhauster (3) and roof exhausters (4), (5), (6) & (7).

Source 104A: New Grinding and Goff

Goff CT-2-40 continuous shotblast

8@ 30 inch dia. snag grinding stations with one more under construction- covered by recent RFD Controlled by BH-05.

There are two roof exhausters in the area (22) & (23) which could also handle fugitives from Source 107 and 104B.

Oscillating pan and belt conveyors associated with the sprue line. Employees hammering casting and risers; throwing risers into hoppers. No exhaust.

Casting sort belt conveyor and bins- transport blasted castings from Goff to grinding stations- no exhaust.

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Source 104B: Grinding and Cleaning (includes shot blasts other than Goff)

6@ portable disk or belt sanders.

21@ compressed air powered grinders some with abrasive wheels, some with carbide burrs.

Several other small hand held grinders.

Pangborn 20GN Tumble Shot Blast called West Cleaning Machine- controlled by BH-04.

Pangborn 20GN Tumble Shot Blast called East Cleaning Machine- controlled by BH-06.

3 cubic feet Wheelabrator rubber belt web tumble shot blast- controlled by BH-06.

BH-05 has been removed.

There are two roof exhausters (22) & (23) in the area which could also handle fugitives from Source 107 and 104A.

34 GN Pangborn Shot Blast Exhausted by baghouse which vents in doors.

Pan conveyor taking blasted castings from 34GN to grinding stations- not exhausted.

Source 105: Shell Core, Core Drying and No Bake Core Making

1. 1@ Dependable Model 100 Shell Core Machine.

2. 1@ Dependable Model E-200 Shell Core Machine.

There is a wall exhauster (18) associated with these machines. The machines are manually operated antiques used probably less than ten hours a year to make some very short run cores.

3. 4@ Redford RS-16 Shell Core machines.

There is a wall exhauster (15) associated with these machines and a roof exhauster (16) that would also catch anything not captured by the Harrison exhaust hoods and stack.

4. 1@ Harrison 2424 Shell Core machine.

It has a hood and stack- no controls.

5. 2@ Despatch Core Ovens- used for drying cores-
Each has a small stack and they share a roof exhauster (17)

6. 1@ Palmer M50XL No Bake Machine comprised of sand heater, sand mixer and core blower- no controls except that the sand heater vents to the Torit baghouse which vents indoors.

7. 1@ Core Sand Silo controlled by Torit baghouse which vents indoors.

Source 106: Sand Handling

Simpson 225G muller Exhausted by Torit baghouse located indoors.

Indoor Bond Silo- Exhausted by Torit baghouse located indoors.

Bond Feeder- Exhausted by Torit baghouse located indoors.

There is a wall exhauster (28) associated with this area.

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RFD 7831 approved on 8/12/19 took the Old Bond Silooff of BH-02.

New Sand Silo/bin- exhausted through bin vent exhausting in doors.

Return Sand Silo- exhausted by BH-02.

Didion MD-100- exhausted by BH-02.

Carrier fluidized bed sand cooler- exhausted by BH-02.

Various oscillating pan conveyors and belt conveyors- some are exhausted by BH-02.

Prepared sand distribution belt system.

Fugitives from this system could be exhausted through roof exhausters (4), (5), (6), (7), (10) & (13) and wall exhauster (3).

Source 106AA: New Bond Silo

A.O. Smith Bond Silo

Pneumatic transport trucks which deliver the pre-mix/bond- owned by transport companies controlled by a Torit cartridge-style bin vent.

Source 107: Heat Treating- Austemper

Austemper Heat Treating Line manufactured by Ajax Electric Exhaust blower and stack 107B.

2@ roof exhausters (22) & (23) in this area also serve Sources 104A & 104B.

Source 109: Air Make-up Units (3)

Source 110: Misc Natural Gas Usage

Source 111: Two Degreaser Units

1@ in Maintenance Tunnel.

1@ in Reclaim Building.

Source ID #114: Emergency generators comprised with the followinf sources:

1. Austemper- Cat 540 kW Model D348 Serial number 036J1982 Built 6-10-1976 4 cycle diesel 725 BHP installed October 1998.

2. Melt Cooling- CAT 125kW Model SR4 Serial number 44BH4479 Engine ser number 04B18252 Built 6-27-1979 4 cycle diesel 159 BHP installed August 1979 .

3. Autopour- Kohler 450 kW Model 400R0DZ Serial number 600846 Built June 17,1998 2 cycle diesel 643 BHP installed August 1998

(f) The following roof extractors are insignificant: and there are no applicable requirements for those sources:

No Source number: There is a small stack onto roof of pattern shop which is connected to an exhaust blower for a small disk sander for sanding wooden and plastic parts.

There are two other roof -fans which are not associated with any sources : one is in the ladle reline area and the other is in the machine shop queue building.

2 Heavy-duty single speed stand grinders controlled by a 6,000-ACFM Torit DFE 2-8 baghouse, exhausts indoors.

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(g) This permit was amended on September 23, 2009 to incorporate the conditions of plan approval # 20-040E.

(h) This permit was reissued on March 2, 2010.

(i) This permit was amended on December 11, 2012 to incorporate the applicable requirements of plan approval 20-040H.

(j) The permit was renewed on May 7, 2015.

(k) The permit was administratively amended on August 13, 2015 to incorporate the applicable requirements of Plan Approval K which replaced Plan Approval I which had lapsed. The conditions were not changed from Plan Approval I to Plan Approval K.. The plan approval covered Source 101 and 102. Source 101 consists of a charge preheater and two charge buckets. Source 102 consists of three melt furnaces (each is an Ajax 12 ton capacity, 12,000 #/hr, 3.3 MW coreless induction melting furnace) and magnesium treatment. For the magnesium treatment - (add magnesium to molten metal using the folllowing: 4 tundish ladles rated at 6000 pounds for treatment of the ductile iron and 6 smaller ladles with capacities of 1500 and 1000 pounds. Routinely, only one 6000 pound tundish ladle is in use at a time and it would be physically impossible to use more than 2 at a time. It is common for a 1000 or 1500 pound ladle to be tapped into at the same time as a 6000 pound ladle. Control BH-15 (Torit Baghouse) consists of two compartments with 484 bags per compartment.

(l) The permit was administratively amended on February 19, 2019 to incorporate the requirements of Plan Approval 20-040J. These requirements were included in the 2015 renewal permit pursuant to the Homer City Decision. The inspection of the source and control device for the conditions under the plan approval was conducted January 25, 2019.

(m) The permit was renewed on June 9, 2020 as a synthetic minor operating permit.

(n) The permit was administratively amended on February 7, 2022 to incorporate Plan Approval 20-040L.

(o) The permit was administratively amended on April 17, 2023 to incorporate the change of responsible official to Patrick Curry - Plant Manager.

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