



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

STATE ONLY OPERATING PERMIT

Issue Date: October 22, 2015

Effective Date: December 1, 2015

Expiration Date: November 30, 2020

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: 67-05134

Synthetic Minor

Federal Tax Id - Plant Code: 27-2498042-1

Owner Information

Name: KROSAKI MAGNESITA REFRACTORIES LLC

Mailing Address: 320 N BAKER RD
YORK, PA 17408-5802

Plant Information

Plant: KROSAKI MAGNESITA REFRACTORIES LLC/YORK

Location: 67 York County 67963 West Manchester Township
SIC Code: 3297 Manufacturing - Nonclay Refractories

Responsible Official

Name: ROGER MILLER

Title: OPERATIONS MANAGER

Phone: (717) 792 - 3611

Permit Contact Person

Name: GARY BARTKOWSKI

Title: SENIOR MANAGER PROCESS

Phone: (717) 793 - 5404

[Signature] _____

WILLIAM R. WEAVER, SOUTH CENTRAL REGION AIR PROGRAM MANAGER

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Note: These same sub-sections are repeated for each source!

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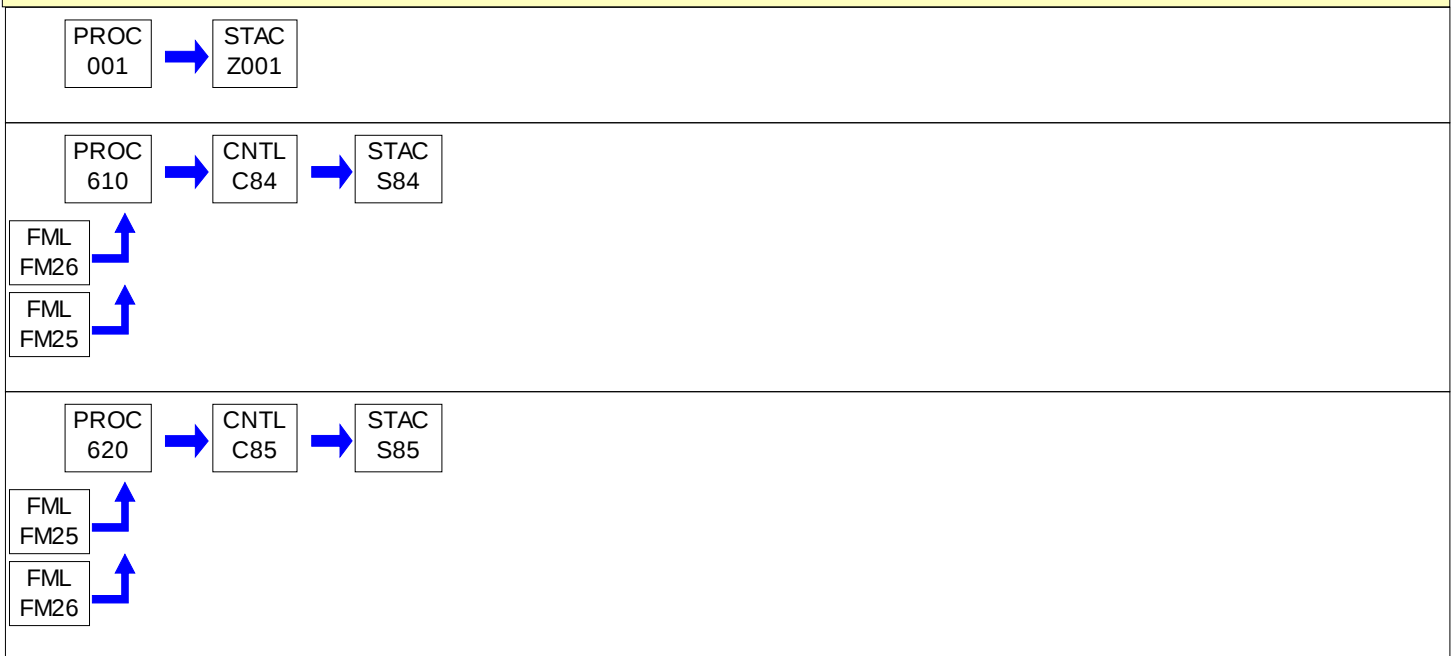
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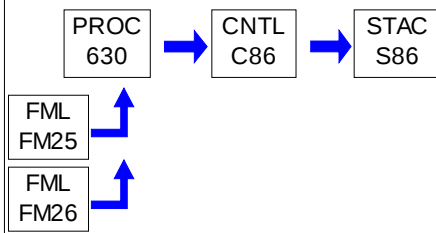
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SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
001	PARTS CLEANING		
610	EC - PERIODIC KILN (BICKLEY)	100.000 Lbs/HR	REFRACTORY
		10.000 MCF/HR	Natural Gas
		110.000 Gal/HR	Propane
620	EC - NO. 1 EISENMANN OVEN	750.000 Lbs/HR	REFRACTORY
		0.600 MCF/HR	Natural Gas
		6.600 Gal/HR	Propane
630	EC - NO. 2 EISENMANN OVEN	750.000 Lbs/HR	REFRACTORY
		0.600 MCF/HR	Natural Gas
		6.000 Gal/HR	Propane
C84	610 KILN INCINERATOR		
C85	NO. 1 EISENMANN INCINERATOR		
C86	NO. 2 EISENMANN INCINERATOR		
FM25	NATURAL GAS SUPPLY		
FM26	PROPANE FUEL SUPPLY		
S84	C84 INCINERATOR EXHAUST		
S85	NO. 1 EISENMANN INCINERATOR EXHAUST		
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Z001	FUGITIVE EMISSIONS		

PERMIT MAPS



**PERMIT MAPS**

SECTION B. General State Only Requirements

#001 [25 Pa. Code § 121.1]

Definitions.

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

#002 [25 Pa. Code § 127.446]

Operating Permit Duration.

- (a) This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit.
- (b) The terms and conditions of the expired permit shall automatically continue pending issuance of a new operating permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit.

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

Permit Renewal.

- (a) The permittee shall submit a timely and complete application for renewal of the operating permit to the appropriate Regional Air Program Manager. The application for renewal of the operating permit shall be submitted at least six (6) months and not more than 18 months before the expiration date of this permit.
- (b) The application for permit renewal shall include the current permit number, a description of any permit revisions that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.
- (c) The permittee shall submit with the renewal application a fee for the processing of the application and an additional annual administrative fee as specified in 25 Pa. Code § 127.703(b) and (c). The fees shall be made payable to "The Commonwealth of Pennsylvania - Clean Air Fund" and shall be for the amount specified in the following schedule specified in 25 Pa. Code § 127.703(b) and (c).
 - (1) Three hundred dollars for applications filed during the 2000-2004 calendar years.
 - (2) Three hundred seventy-five dollars for applications filed for the calendar years beginning in 2005.
- (d) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413.
- (e) The application for renewal of the operating permit shall also include submission of supplemental compliance review forms in accordance with the requirements of 25 Pa. Code § 127.412(b) and § 127.412(j).
- (f) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information as necessary to address any requirements that become applicable to the source after the permittee submits a complete application, but prior to the date the Department takes action on the permit application.

#004 [25 Pa. Code § 127.703]

Operating Permit Fees under Subchapter I.

- (a) The permittee shall pay fees according to the following schedule specified in 25 Pa. Code § 127.703(b):
 - (1) Three hundred dollars for applications filed during the 2000-2004 calendar years.
 - (2) Three hundred seventy-five dollars for applications filed for the calendar years beginning in 2005.

This fee schedule shall apply to the processing of an application for an operating permit as well as the extension,

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modification, revision, renewal, and re-issuance of each operating permit or part thereof.

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

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

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

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

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

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

Transfer of Operating Permits.

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

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

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

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

Inspection and Entry.

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

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

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

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

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

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

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

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

Compliance Requirements.

(a) The permittee shall comply with the conditions of this operating permit. Noncompliance with this permit constitutes

SECTION B. General State Only Requirements

a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one or more of the following:

- (1) Enforcement action
- (2) Permit termination, revocation and reissuance or modification
- (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]

Operating Permit Modifications

- (a) The permittee is authorized to make administrative amendments, minor operating permit modifications and

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significant operating permit modifications, under this permit, as outlined below:

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

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

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

#012 [25 Pa. Code § 127.441]

Severability Clause.

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

#013 [25 Pa. Code § 127.449]

De Minimis Emission Increases.

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

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

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

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

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

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

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

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

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

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

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

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

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- (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)

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(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

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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 C. Site Level Requirements

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

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

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

002 [25 Pa. Code §123.2]

Fugitive particulate matter

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

003 [25 Pa. Code §123.31]

Limitations

No person shall permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

004 [25 Pa. Code §123.41]

Limitations

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

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

005 [25 Pa. Code §123.42]

Exceptions

The emission limitations of Section 123.41 shall not apply when:

- (1) The presence of uncombined water vapor is the only reason for failure of the emission to meet the limitation;
- (2) The emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions;
- (3) The emission results from sources specified in 25 Pa. Code Section 123.1(a)(1) through (9)(relating to certain fugitive emissions).

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Total volatile organic compound (VOC) emissions from the combined Magnesita and Krosaki operations shall not equal or exceed 50 tons per consecutive 12-month period.

[The above requirement was included in Operating Permit No. 67-2001A.]

007 [25 Pa. Code §129.14]

Open burning operations

No person shall conduct the open burning of material at the facility, except for the following:

- (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

SECTION C. Site Level Requirements

public officer.

- (2) A fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (3) A fire set for the prevention and control of disease or pests, when approved by the Department.
- (4) A fire set solely for recreational or ceremonial purposes.
- (5) A fire set solely for cooking food.

This permit does not constitute authorization to burn solid waste pursuant to section 610 (3) of the Solid Waste Management Act (SWMA). 35 PS Section 6018.610 (3) or any other provision of the SWMA.

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 the sources referenced in this permit as necessary during the permit term to verify emissions for purposes including emission fees, malfunctions or permit condition violations.

III. MONITORING REQUIREMENTS.

009 [25 Pa. Code §123.43]

Measuring techniques

Visible air contaminants may be measured using either of the following:

- (1) A device approved by the Department and maintained to provide accurate opacity measurements.
- (2) Observers, trained and certified in EPA Method 9, to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall annually demonstrate compliance with the particulate matter and sulfur oxides emissions standards for the combustion sources referenced in this operating permit. The minimum compliance demonstration for all sources shall include the use of methods contained in the EPA AP-42 manual.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

These are 40 CFR 63.9808 requirements to demonstrate continuous compliance in monitoring and collecting data:

- (a) The permittee must monitor and collect data according to this section.
- (b) At all times, the permittee must maintain monitoring systems including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
- (c) Except for, as applicable, monitoring system malfunctions, associated repairs, and required quality assurance or quality control activities, the permittee must monitor continuously whenever the affected process unit is operating. For purposes of calculating data averages, the permittee must not use data recorded during monitoring system malfunctions, associated repairs, and required quality assurance or quality control activities. The permittee must use all the data collected during all other periods in assessing compliance. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system malfunctions include out of control continuous monitoring systems (CMS), such as a CPMS. Any averaging period for which you do not have valid monitoring data as a result of a monitoring system malfunction and for which such data are required constitutes a deviation, and the permittee must notify the Administrator in accordance with 40 CFR 63.9814(e). Monitoring system failures are different from monitoring system malfunctions in that they are caused in part by poor maintenance or careless operation. Any period for which there is a monitoring system failure and data are not available for required calculations constitutes a deviation and you must notify the Administrator in accordance with 40 CFR 63.9814(e).

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

These are 40 CFR 63.9804 requirements for a CPMS (Continuous Parameter Monitoring System):

- (a) The permittee must install, operate, and maintain each CPMS required by this subpart according to the OM&M plan and the requirements in paragraphs (a)(1) through (15) of this section.

SECTION C. Site Level Requirements

- (1) The permittee must satisfy all applicable requirements of performance specifications for CPMS specified in 40 CFR part 60, appendix B, upon promulgation of such performance specifications.
- (2) The permittee must satisfy all applicable requirements of quality assurance (QA) procedures for CPMS specified in 40 CFR part 60, appendix F, upon promulgation of such QA procedures.
- (3) The permittee must install each sensor of a CPMS in a location that provides representative measurement of the appropriate parameter over all operating conditions, taking into account the manufacturer's guidelines.
- (4) The permittee must use a CPMS that is capable of measuring the appropriate parameter over a range that extends from a value of at least 20 percent less than the lowest value the CPMS is expected to measure, to a value of at least 20 percent greater than the highest value the CPMS is expected to measure.
- (5) The permittee must use a data acquisition and recording system that is capable of recording values over the entire range specified in paragraph (a)(4) of this section.
- (6) The permittee must use a signal conditioner, wiring, power supply, and data acquisition and recording system that are compatible with the output signal of the sensors used in your CPMS.
- (7) The permittee must perform an initial calibration of a CPMS based on the procedures specified in the manufacturer's owner's manual.
- (8) The permittee must use a CPMS that is designed to complete a minimum of one cycle of operation for each successive 15-minute period. To have a valid hour of data, the permittee must have at least three of four equally-spaced data values (or at least 75 percent of the total number of values if more than four data values are collected per hour) for that hour (not including startup, shutdown, malfunction, or out-of-control periods).
- (9) The permittee must record valid data from at least 90 percent of the hours during which the affected source or process operates.
- (10) The permittee must determine and record the 15-minute block averages of all measurements, calculated after every 15 minutes of operation as the average of the previous 15 operating minutes (not including periods of startup, shutdown, or malfunction).
- (11) The permittee must determine and record the 3-hour block averages of all 15-minute recorded measurements, calculated after every 3 hours of operation as the average of the previous 3 operating hours (not including periods of startup, shutdown, or malfunction).
- (12) The permittee must record the results of each inspection, calibration, initial validation, and accuracy audit.
- (13) At all times, the permittee must maintain a CPMS including, but not limited to, maintaining necessary parts for routine repairs of the CPMS.
- (14) The permittee must perform an initial validation of your CPMS under the conditions specified in paragraphs (14)(i) and (ii) of this section.
 - (i) Prior to the initial performance test on the affected source for which the CPMS is required.
 - (ii) Within 180 days of your replacing or relocating one or more of the sensors of your CPMS.
- (15) Except for redundant sensors, as defined in §63.9824, any device used to conduct an initial validation or accuracy audit of a CPMS must meet the accuracy requirements specified in paragraphs (15)(i) and (ii) of this section.
 - (i) The device must have an accuracy that is traceable to National Institute of Standards and Technology (NIST) standards.
 - (ii) The device must be at least three times as accurate as the required accuracy for the CPMS.
- (b) For each temperature CPMS that is used to monitor the combustion chamber temperature of a thermal oxidizer or the catalyst bed inlet temperature of a catalytic oxidizer, the permittee must meet the requirements in paragraphs (a) and (b)(1) through (b)(6) of this section.
 - (1) Use a temperature CPMS with a minimum accuracy of ± 1.0 percent of the temperature value or 2.8 degrees Celsius ($^{\circ}\text{C}$) (5 degrees Fahrenheit ($^{\circ}\text{F}$)), whichever is greater.
 - (2) Use a data recording system with a minimum resolution of one-half or better of the required CPMS accuracy specified in paragraph (b)(1) of this section.
 - (3) Perform an initial validation of your CPMS according to the requirements in paragraph (3)(i) or (3)(ii) of this section.
 - (i) Place the sensor of a calibrated temperature measurement device adjacent to the sensor of the temperature CPMS in a location that is subject to the same environment as the sensor of the temperature CPMS. The calibrated temperature measurement device must satisfy the accuracy requirements of paragraph (a)(15) of this section. While the process and control devices that is monitored by the CPMS are operating normally, record concurrently and compare the temperatures measured by the temperature CPMS and the calibrated temperature measurement device. Using the calibrated temperature measurement device as the reference, the temperature measured by your CPMS must be within the accuracy specified in paragraph (b)(1) of this section.
 - (ii) Perform any of the initial validation methods for a temperature CPMS specified in performance specifications for CPMS established in 40 CFR part 60, appendix B.

SECTION C. Site Level Requirements

(4) Perform an accuracy audit of each temperature CPMS at least quarterly, according to the requirements in paragraph (b)(4)(i), (ii), or (iii) of this section.

(i) If the temperature CPMS includes a redundant temperature sensor, record three pairs of concurrent temperature measurements within a 24-hour period. Each pair of concurrent measurements must consist of a temperature measurement by each of the two temperature sensors. The minimum time interval between any two such pairs of consecutive temperature measurements is 1 hour. The measurements must be taken during periods when the process and control device that is monitored by the temperature CPMS are operating normally. Calculate the mean of the three values for each temperature sensor. The mean values must agree within the required overall accuracy of the CPMS, as specified in paragraph (b)(1) of this section.

(ii) If the temperature CPMS does not include a redundant temperature sensor, place the sensor of a calibrated temperature measurement device adjacent to the sensor of your temperature CPMS in a location that is subject to the same environment as the sensor of the temperature CPMS. The calibrated temperature measurement device must satisfy the accuracy requirements of paragraph (a)(15) of this section. While the process and control devices that are monitored by the temperature CPMS are operating normally, record concurrently and compare the temperatures measured by the CPMS and the calibrated temperature measurement device. Using the calibrated temperature measurement device as the reference, the temperature measured by your CPMS must be within the accuracy specified in paragraph (b)(1) of this section.

(iii) Perform any of the accuracy audit methods for temperature CPMS specified in QA procedures for CPMS established in 40 CFR part 60, appendix F.

(5) Conduct an accuracy audit of a CPMS following any 24-hour period throughout which the temperature measured by the CPMS exceeds the manufacturer's specified maximum operating temperature range, or install a new temperature sensor.

(6) If a CPMS is not equipped with a redundant temperature sensor, perform at least quarterly a visual inspection of all components of the CPMS for integrity, oxidation, and galvanic corrosion.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall calculate and record facility VOC emissions for each calendar month and total VOC emissions for each consecutive 12-month period.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

(a) Visible emissions in excess of the limits stated in Section C, Condition #004. Visible emissions may be measured according to the methods specified in Section C, Condition #009, or alternatively, plant personnel who observe visible emissions may report the incidence of visible emissions to the Department within two hours of each incident and make arrangements for a certified observer to verify the visible emissions.

(b) The presence of visible fugitive emissions beyond the plant boundaries as stated in Section C, Condition #002.

(c) The presence of malodorous air emissions beyond the plant boundaries as stated in Section C, Condition #003.

IV. RECORDKEEPING REQUIREMENTS.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain records of each weekly inspection around the plant periphery. Each record shall include, at minimum, the following information:

- 1.) The name of the company representative doing the observation.
- 2.) The date and time of the monitoring.
- 3.) The wind direction.
- 4.) A description of any emissions and/or malodors observed and the actions taken to mitigate them. If none are present, record "NONE."

SECTION C. Site Level Requirements

These records shall be maintained for the most recent five (5) year period and be made available to the Department upon request.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain detailed records of all maintenance performed on the air emissions control systems for the most recent five-year period.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain appropriate daily records to verify compliance with the 50-TPY VOC emissions limit. These records shall include, but are not limited to, the following:

- Records of purchase and usage of all binders, additives, solvents and other VOC-containing materials
- Material Safety Data sheets or supplier's certification of VOC content for all VOC-containing materials.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Unless otherwise noted, all records required by this and subsequent operating permits shall be maintained for the most recent five-year period and shall be readily available to the Department upon request. The most recent two years of records must be retained at the facility. The remaining three years of records may be retained at the facility or may be retained off site. The records may be retained on paper, microfilm, microfiche or computer disks. If the records are retained on computer disks, the records must be in commonly available software. Commonly available software is usually compatible with a Microsoft application such as Word or Excel.

V. REPORTING REQUIREMENTS.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

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

(a) Malfunction which poses an imminent danger to the public health, safety, welfare, and environment, shall be immediately reported to the Department by telephone. The telephone report of such malfunctions shall occur no later than two (2) hours after the incident. Telephone reports can be made to the Air Quality Program at (717) 771-4481 during normal business hours, or to the Department's Emergency Hotline at (866) 825-0208 at any time. The permittee shall submit a written report of instances of such malfunctions to the Department within three (3) days of the telephone report.

(b) Unless otherwise required by this permit, any other malfunction that is not subject to the reporting requirement of subsection (a) above, shall be reported to the Department, in writing, within five (5) days of malfunction discovery.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

An annual report as per Section 129.95 containing, but not limited to, the following data for each fuel-burning unit complying with 25 Pa. Code, Section 129.93(c) shall be submitted to the Air Quality District Supervisor:

- identification of each source
- hours of operation per quarter
- fuel combusted per quarter
- fuel analysis for each liquid fuel shipment received
- pounds of NO_x emitted per quarter

The report for each January 1 through December 31 period is due no later than March 1 of the following year for each year authorized by this operating permit or its renewal.

SECTION C. Site Level Requirements

[The above requirement was included in Operating Permit No. 67-2001]

VI. WORK PRACTICE REQUIREMENTS.**# 021 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

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

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

022 [25 Pa. Code §127.444]**Compliance requirements.**

All air emissions sources and emission control devices shall be operated and maintained in accordance with the manufacturers' recommendations as necessary to comply with the terms and conditions of this permit for particulate matter and visible emissions.

VII. ADDITIONAL REQUIREMENTS.**# 023 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Operation of any air emissions source is contingent upon proper operation of its associated emissions control system, unless otherwise approved by the Department.

024 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

All combustion sources shall comply with the requirements of 25 Pa. Code, Section 129.93(c).

[The above requirement was included in Operating Permit No. 67-2001]

025 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

For the purposes of Prevention of Significant Deterioration (PSD), New Source Review (NSR), Reasonable Available Control Technology (RACT) and any other federal program, the permittee shall maintain a 12-month rolling total of the following emissions from the operations covered by this permit, and a combined total from the operations covered by this permit and the adjacent Magnesita Refractories Company facility (permitted under Operating Permit No. 67-05001) and the adjacent Magnesita Refractories Company quarry (permitted under Operating Permit No. 67-05120):

- a. PM-10
- b. Nitrogen Oxides (NO_x)
- c. Sulfur Oxides (SO_x)
- d. Carbon Monoxide (CO)
- e. Volatile Organic Compounds (VOCs)
- f. Hazardous Air Pollutants (Total and Individual)

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.



SECTION C. Site Level Requirements

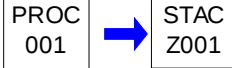
No compliance milestones exist.

SECTION D. Source Level Requirements

Source ID: 001

Source Name: PARTS CLEANING

Source Capacity/Throughput:

**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.**# 001 [25 Pa. Code §129.63]****Degreasing operations**

The permittee shall maintain the following records on and after December 22, 2002:

- (a) The name and address of the solvent supplier.
- (b) The type of solvent including the product or vendor identification number.
- (c) The vapor pressure of the solvent measured in mm Hg at 20°C (68°F).

An invoice, bill of sale, or 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.

The permittee shall retain these records for a minimum of five (5) years and shall make them available to the Department upon its request.

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 §129.63]****Degreasing operations**

The permittee shall operate each Source ID 001 unit in accordance with the following procedures:

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

SECTION D. Source Level Requirements

(c) Sponges, fabric, wood, leather, paper products and other absorbent materials may not be cleaned in Source ID 001 units.

(d) Air-agitated solvent baths may not be used.

(e) Spills during solvent transfer and use of each Source ID 001 units shall be cleaned up immediately.

003 [25 Pa. Code §129.63]**Degreasing operations**

Each Source ID 001 unit shall have a permanent, conspicuous label summarizing the operating requirements in Condition #002. 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 unit.

(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.

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

004 [25 Pa. Code §129.63]**Degreasing operations**

Source ID 001 units shall have a freeboard ratio of 0.50 or greater.

As defined at 25 Pa. Code Section 121.1, the freeboard ratio is defined as the distance from the liquid solvent in the idling mode to the top edge of the cleaning machine divided by the smaller dimension (length or width) of the cleaning machine.

005 [25 Pa. Code §129.63]**Degreasing operations**

Each Source ID 001 unit shall be equipped with one of the following:

(a) A cover that shall be closed at all times except during cleaning of parts or the addition or removal of solvent.

(b) A perforated drain with a diameter of not more than six (6) inches, if the unit drains directly into the solvent storage reservoir.

006 [25 Pa. Code §129.63]**Degreasing operations**

Degreasing activities shall be conducted in accordance with the applicable requirements of 25 Pa. Code Section 129.63 to include the following:

(a) After December 22, 2002, Source ID 001 units shall not employ 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.

(b) This permit condition does not apply when:

(1) Source ID 001 units are used in extreme cleaning service. Extreme cleaning service is defined as the use of a cold cleaning machine to clean parts used in the manufacture of the following gases or to clean parts exposed to these gases in manufacturing, production, research and development, analytical work, or other similar operations:

- (A) Oxygen in concentrations greater than 23%
- (B) Ozone
- (C) Nitrous oxide

SECTION D. Source Level Requirements

- (D) Fluorine
- (E) Chlorine
- (F) Bromine
- (G) Halogenated compounds

(2) The permittee demonstrates, and the Department approves in writing, that compliance with this permit condition will result in unsafe operating conditions.

VII. ADDITIONAL REQUIREMENTS.

007 [25 Pa. Code §129.63]

Degreasing operations

All of the aforementioned permit conditions apply to each Source ID 001 unit so long as the cold cleaning machine uses 2 gallons or more of solvents containing greater than 5% VOC content by weight for the cleaning of metal parts.

SECTION D. Source Level Requirements

Source ID: 610

Source Name: EC - PERIODIC KILN (BICKLEY)

Source Capacity/Throughput:	100.000 Lbs/HR	REFRACTORY
	10.000 MCF/HR	Natural Gas
	110.000 Gal/HR	Propane

Conditions for this source occur in the following groups: 001



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

Particulate matter emissions from the Source ID 610 EC periodic kiln shall not exceed 0.04 grains per dry, standard cubic foot of effluent gas.

002 [25 Pa. Code §123.21]

General

Sulfur oxides emissions, expressed as sulfur dioxide, from the Source ID 610 EC periodic kiln shall not exceed a concentration of 500 parts per million, by volume, dry basis, in the effluent gas.

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).

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

No additional work practice requirements exist except as provided in other sections of this permit including Section B (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: 620

Source Name: EC - NO. 1 EISENMANN OVEN

Source Capacity/Throughput:	750.000 Lbs/HR	REFRACTORY
	0.600 MCF/HR	Natural Gas
	6.600 Gal/HR	Propane

Conditions for this source occur in the following groups: 001



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

Particulate matter emissions from the Source ID 620 No. 1 Eisenmann oven shall not exceed 0.04 grains per dry standard cubic foot of effluent gas.

002 [25 Pa. Code §123.21]

General

Sulfur oxides emissions, expressed as sulfur dioxide, from the Source ID 620 No. 1 Eisenmann oven shall not exceed a concentration of 500 parts per million, by volume, dry basis, in the effluent gas.

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).

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

No additional work practice requirements exist except as provided in other sections of this permit including Section B (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: 630

Source Name: EC - NO. 2 EISENMANN OVEN

Source Capacity/Throughput:	750.000 Lbs/HR	REFRACTORY
	0.600 MCF/HR	Natural Gas
	6.000 Gal/HR	Propane

Conditions for this source occur in the following groups: 001



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

Particulate matter emissions from the Source ID 630 No. 2 Eisenmann oven shall not exceed 0.04 grains per dry standard cubic foot of effluent gas.

002 [25 Pa. Code §123.21]

General

Sulfur oxides emissions, expressed as sulfur dioxide, from the Source ID 630 No. 2 Eisenmann oven shall not exceed a concentration of 500 parts per million, by volume, dry basis, in the effluent gas.

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).

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

No additional work practice requirements exist except as provided in other sections of this permit including Section B (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: 001

Group Description: MACT Subpart SSSSS - Thermal

Sources included in this group

ID	Name
610	EC - PERIODIC KILN (BICKLEY)
620	EC - NO. 1 EISENMANN OVEN
630	EC - NO. 2 EISENMANN OVEN
C84	610 KILN INCINERATOR
C85	NO. 1 EISENMANN INCINERATOR
C86	NO. 2 EISENMANN INCINERATOR

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

If a Group 001 source uses process changes to reduce organic HAP emissions, the 2-run block average THC concentration for the 3-hour peak emissions period must not exceed 20 ppmvd, corrected to 18 percent oxygen, at the outlet of the process gas stream.

[40 CFR 63, Subpart SSSSS, Table 1, Item 8.]

002 [25 Pa. Code §127.512]**Operating permit terms and conditions.**

For a Group 001 source, the permittee must be in compliance with the emission limitations of 40 CFR 63, Subpart SSSSS, except during periods of startup, shutdown, malfunction and scheduled maintenance.

[Reference 40 CFR 63.9792(a)]

Control Device Efficiency Restriction(s).**# 003 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

For Group 001 sources controlled by thermal (not catalytic) oxidizers:

- The 2-run block average THC concentration for the 3-hour peak emissions period must not exceed 20 ppmvd, corrected to 18 percent oxygen, at the outlet of the control device; or
- The 2-run block average THC mass emissions rate for the 3-hour peak emissions period must be reduced by at least 95 percent.

[40 CFR 63, Subpart SSSSS, Table 1, Item 6.]

II. TESTING REQUIREMENTS.**# 004 [25 Pa. Code §127.512]****Operating permit terms and conditions.**

The permittee shall submit a test plan and a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin [as required in 40 CFR 63.7(b)(1)] to PADEP Southcentral Regional Manager of Air Quality and U.S. EPA Region 3 for approval.

[40 CFR 63.9812(d)]

The permittee shall submit three (3) copies of the complete test report within 60 calendar days after completion of the test program to the PADEP Southcentral Regional Manager of Air Quality and one (1) copy to U.S. EPA Region 3.

[40 CFR 63.9812(e) and 40 CFR 63.7(g)]

During testing all pertinent and supplemental process and control data must be recorded and included in the final test report. All process and control device data must be summarized on a run-to-run basis. All testing shall comply with 40 CFR 63, Subpart SSSSS, Table 4.

[40 CFR 63.7(e)]

SECTION E. Source Group Restrictions.

005 [25 Pa. Code §127.512]

Operating permit terms and conditions.

- A minimum of once every 5 years the permittee shall conduct a performance test.
- The permittee must conduct a performance test in order to change the parameter value for any operating limit specified in the OM&M plan.
- The permittee must conduct a performance test on the source(s) before starting production of any refractory product for which the organic HAP processing rate is likely to exceed by more than 10 percent the maximum organic HAP processing rate established during the most recent performance test on that same source.
- Not applicable to Group 001.
- Not applicable to Group 001.

[40 CFR 63.9798 and 40 CFR 63, Subpart SSSSS, Table 4]

III. MONITORING REQUIREMENTS.

006 [25 Pa. Code §127.512]

Operating permit terms and conditions.

Each temperature monitoring system shall be installed, operated, and maintained in accordance with 40 CFR 63.9804.

007 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee shall monitor the temperature of an affected source at least hourly while the source is operating with a product containing HAPs in the oven to determine compliance with the required operating temperature.

[40 CFR 63.9808 and 40 CFR 63, Subpart SSSSS, Table 8, Item 4]

008 [25 Pa. Code §127.512]

Operating permit terms and conditions.

For Group 001 sources controlled by thermal (not catalytic) oxidizers:

- The permittee shall monitor the organic HAP processing rate (pounds per batch) of the affected source while the source is operating and a product containing HAPs is in the oven to determine compliance with the required HAP processing rate and
- The permittee shall monitor process cycle time for each batch cycle of the affected source while the source is operating and a product containing HAPs is in the oven to determine compliance with the required HAP processing rate.

[40 CFR 63, Subpart SSSSS, Table 8, Item 7]

009 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee shall demonstrate continuous compliance in monitoring and collecting data in accordance with 40 CFR 63.9808 requirements given in Section C.

IV. RECORDKEEPING REQUIREMENTS.

010 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee must maintain records in a form suitable and readily available for expeditious review for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee must keep each record onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The permittee may keep the records offsite for the remaining 3 years.

[40 CFR 63.9818 and 40 CFR 63.10(b)(1)]

011 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee shall record the oxidizer combustion zone temperature with a continuous recorder, maintain the data for the most recent five (5) year period and make it available to the Department upon request.

[40 CFR 63, Subpart SSSSS, Table 2, Item 1(d)]

The temperature recorder must be installed, operated and maintained in accordance with 40 CFR 63.9804 requirements for a CPMS (Continuous Parameter Monitoring System) given in Section C.

012 [25 Pa. Code §127.512]

Operating permit terms and conditions.

SECTION E. Source Group Restrictions.

If a Group 001 source is controlled with a thermal oxidizer:

- a. The permittee shall record the organic HAP processing rate (pounds per batch) of the affected source while the sources are operating to determine compliance with the required HAP processing rate and
- b. The permittee shall record the process cycle time for each batch cycle of the affected source while the sources are operating to determine compliance with the required HAP processing rate.

[40 CFR 63, Subpart SSSSS, Table 8, Item 7]

013 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee shall maintain the following records:

- a. A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status submitted according to the requirements in 40 CFR 63.10(b)(2)(xiv).
- b. The records in 40 CFR 63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.
- c. Records of performance tests as required in 40 CFR 63.10(b)(2)(viii).
- d. The records required in 40 CFR 63 Subpart SSSSS, Tables 7 through 9.
- e. Records of emission data used to develop an emissions profile, as indicated in 40 CFR 63 Subpart SSSSS, Table 4 Items 8(a)(i)(4) and 17(b)(i)(4).
- f. Records that document the compliance with any applicable work practice standard.
- g. For each deviation of an operating limit parameter value, the date, time, and duration of the deviation, a brief explanation of the cause of the deviation and the corrective action taken, and whether the deviation occurred during a period of startup, shutdown, or malfunction.
- h. For each affected source, records of production rate on a process throughput basis (either feed rate to the process unit or discharge rate from the process unit).
- i. Records of any approved alternative monitoring method(s) or test procedure(s).
- j. Current copies of the SSMP and the OM&M plan, including any revisions and records documenting conformance with those revisions.

V. REPORTING REQUIREMENTS.

014 [25 Pa. Code §127.512]

Operating permit terms and conditions.

During startup, shutdown, or a malfunction, if the source exceeds any applicable emission limitation and the actions taken are not consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the permittee shall report the actions taken for that event within 2 working days after commencing actions inconsistent with the plan followed by a letter within 7 working days after the end of the event. The immediate report required under this paragraph shall consist of a telephone call (or facsimile (FAX) transmission) to the Administrator within 2 working days after commencing actions inconsistent with the plan, and it shall be followed by a letter, delivered or postmarked within 7 working days after the end of the event, that contains the name, title, and signature of the owner or operator or other responsible official who is certifying its accuracy, explaining the circumstances of the event, the reasons for not following the startup, shutdown, and malfunction plan, describing all excess emissions and/or parameter monitoring exceedances which are believed to have occurred (or could have occurred in the case of malfunctions), and actions taken to minimize emissions.

[40 CFR 63, Subpart SSSSS, Table 10, Item 2.]

015 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee must submit semiannual compliance reports. The reports must cover the periods beginning on January 1 and ending on June 30 of each year and beginning on July 1 and ending on December 31 of each year. Compliance reports must be postmarked or delivered no later than July 31 or January 31 for compliance periods ending on June 30 and December 31, respectively.

[40 CFR 63.9814(b)(3) & (4)]

(c) Each compliance report must include:

- (c)(1) Company name and address.
- (c)(2) Statement by a responsible official with that official's name, title, and signature, certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- (c)(3) Date of report and beginning and ending dates of the reporting period.
- (c)(4) If there was a startup, shutdown, or malfunction during the reporting period, and actions taken were consistent with

SECTION E. Source Group Restrictions.

the SSMP and OM&M plan, this information must be summarized in the compliance report.

(c)(5) If there are no deviations from any emission limitations (emission limit, operating limit, or work practice standard), the compliance report must include a statement that there were no deviations from the emission limitations during the reporting period.

(c)(6) If there were no periods during which the temperature sensing and recording system was out of control, the compliance report must include a statement that there were no periods during which the the temperature sensing and recording system was out of control during the reporting period.

(e) For each deviation from an emission limitation (emission limit, operating limit, or work practice standard) the compliance report must also include:

(e)(1) The total operating time of each affected source during the reporting period.

(e)(2) The date and time that each startup, shutdown, or malfunction started and stopped.

(e)(3) The date, time, and duration that each temperature sensing and recording system was inoperative.

(e)(4) The date, time and duration that each temperature sensing and recording system was out of control, including corrective action taken.

(e)(5) The date and time that each deviation from an emission limitation (emission limit, operating limit, or work practice standard) started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction.

(e)(6) A description of corrective action taken in response to a deviation.

(e)(7) A summary of the total duration of the deviations during the reporting period and the total duration as a percentage of the total source operating time during that reporting period.

(e)(8) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(e)(9) A summary of the total duration of temperature sensing and recording system downtime during the reporting period and the total duration of temperature sensing and recording system downtime as a percentage of the total source operating time during that reporting period.

(e)(10) A brief description of the process units.

(e)(11) A brief description of the temperature sensing and recording system.

(e)(12) The date of the latest temperature sensing and recording system initial validation or accuracy audit.

(e)(13) A description of any changes in temperature sensing and recording system, processes, or controls since the last reporting period.

[40 CFR 63.9814.]

VI. WORK PRACTICE REQUIREMENTS.

016 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee shall maintain for Group 001 sources the 3-hour block average operating temperature in the thermal oxidizer combustion chamber at or above the minimum allowable operating temperature established during the most recent performance test.

[40 CFR 63, Subpart SSSSS, Table 8, Item 8.]

The minimum operating temperature is defined as average of the thermal oxidizer combustion chamber for the three most recent performance test runs, minus 25 degrees F.

[40 CFR 63, Subpart SSSSS, Table 4, Items 8 and 11.]

017 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee shall, for Group 001 kiln and ovens, maintain the 3-hour block average organic HAP processing rate at or below the maximum organic HAP processing rate established during the most recent performance test.

[40 CFR 63, Subpart SSSSS, Table 8, Item 7]

018 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee shall capture emissions and vent them through a closed system.

[40 CFR 63, Subpart SSSSS, Table 2, Item 1(b)]

019 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee shall operate each control device that is required to comply with 40 CFR 63, Subpart SSSSS on each affected source during all periods that the source is operating and a product containing HAPs is in the kiln/oven, except where

SECTION E. Source Group Restrictions.

specified in 40 CFR 63.9792(e), 40 CFR 63, Subpart SSSSS, Table 2, Item 2, and 40 CFR 63, Subpart SSSSS, Table 4, Item 13(ii).

[40 CFR 63, Subpart SSSSS, Table 2, Item 1(c)]

020 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee shall conduct annually an inspection of all duct work, vents, and capture devices to verify that no leaks exist and that the capture device is operating such that all emissions are properly vented to the control device in accordance with the OM&M plan.

[40 CFR 63, Subpart SSSSS, Table 8, Item 1(ii)]

VII. ADDITIONAL REQUIREMENTS.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The conditions of this operating permit shall collectively supersede any conditions related to Source ID 610, Source ID 620 and Source ID 630 in Title V Operating Permit 67-05001 issued on 6/29/10.

022 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee must also comply with the applicable requirements of Subpart A of 40 CFR 63 as noted in Table 11 of 40 CFR 63 Subpart SSSSS.

[40 CFR 63, Subpart SSSSS, Table 11]

023 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee must prepare a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in 40 CFR 63.6(e)(3).

[40 CFR 63.9792(c)]

024 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The permittee must prepare, maintain and implement a written operation, maintenance, and monitoring plan (OM&M) according to the provisions in 40 CFR 63.9794.

[40 CFR 63.9792(d)]

025 [25 Pa. Code §127.512]

Operating permit terms and conditions.

The Group 001 sources and control devices are subject to 40 CFR Part 63, Subpart SSSSS - National Emission Standards for Hazardous Air Pollutants for Refractory Products Manufacturing and shall comply with all applicable requirements of this Subpart including the applicable portions of the General Provisions as described in Appendix A. 40 CFR Section 63.13 requires submission of copies of all requests, reports, applications, submittals and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Director of Air Protection Division
US EPA, Region III (3AP00)
1650 Arch Street
Philadelphia, Pa 19103-2029



SECTION F. Alternative Operation Requirements.

No Alternative Operations exist for this State Only facility.

**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.

SECTION H. Miscellaneous.

The following sources and activities are not subject to any specific work practice standards, testing, monitoring, recordkeeping or reporting requirements:

1. Air conditioning systems
2. Office equipment (copiers, printers, FAX, etc.)
3. Janitorial activities
4. Plant maintenance (painting, welding, paving, cleaning, etc.)
5. Operation, service and maintenance of mobile sources (trucks, forklifts, snowblowers, etc.)
6. Boiler water treatment
7. Electrically heated equipment which does not produce air contaminants
8. Cafeteria equipment
9. Emergency equipment (generators, lights, pumps, etc. and training)
10. High Vac Systems
11. Shrink Wrap Units
12. Well Block Coating Operation - Sta-Warm Wax Dip Tank
13. Gruenberg Oven - (8770)
14. BEC Yorkaire Canning Furnace
15. Space heaters
16. Zyklos Mixers (2)
17. Two Blandchard Grinders w/control and tunnel dryer (2011)
18. Process Mills, Lathes, Presses and Drills
19. Burn and Weld Station - (8577)
20. Graphite Application
21. Grooving Saw
22. Manual Clipper Saw
23. Blue M Drying Oven
24. Portable Air Filtration Unit
25. Slurry Tank and Filter Press Unit
26. Sta-Warm Wax Dip Tank
27. Hand Mixer for Mortar Mixing
28. Hopper and Dust Collection Unit for Zyklos Mixer at Press
29. CNC Mill and Lathe
30. Two Process Welding Stations
31. Small Paint Booth in Mechanical Refurbish and Assembly Area
32. Mechanical Refurbish and Assembly Area (welding station, hand tools, grinders, etc.)



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