



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
COSHOCOTON COUNTY**

**CERTIFIED MAIL**

Street Address:

50 West Town Street, Suite 700

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 06-08160**

**Fac ID: 0616000204**

**DATE: 1/30/2007**

J and J Cores  
Richard Lehman  
22375 Oxford Twp Rd 105  
Newcomerstown, OH 43832

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
309 South Fourth Street, Room 222  
Columbus, OH 43215

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

CC: USEPA

SEDO



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**Permit To Install**

**Issue Date: 1/30/2007**

**FINAL PERMIT TO INSTALL 06-08160**

Application Number: 06-08160  
Facility ID: 0616000204  
Permit Fee: **\$1000**  
Name of Facility: J and J Cores  
Person to Contact: Richard Lehman  
Address: 22375 Oxford Twp Rd 105  
Newcomerstown, OH 43832

Location of proposed air contaminant source(s) [emissions unit(s)]:

**22375 Oxford Twp Rd 105  
Newcomerstown, Ohio**

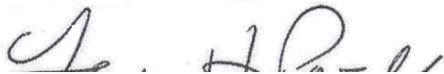
Description of proposed emissions unit(s):

**Sweat Furnace.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency



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Laura Powell  
Acting Director

**J and J Cores**  
**PTI Application: 06-08160**  
**Issued: 1/30/2007**

**Facility ID: 0616000204**

## **Part I - GENERAL TERMS AND CONDITIONS**

### **A. Permit to Install General Terms and Conditions**

#### **1. Compliance Requirements**

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

#### **2. Reporting Requirements**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **3. Records Retention Requirements**

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

#### **4. Inspections and Information Requests**

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

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the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**6. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**7. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**9. Construction of New Sources(s)**

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The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

**10. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

**11. Applicability**

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

**12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

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**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

**14. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

**15. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

**B. Permit to Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)  
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

| <u>Pollutant</u> | <u>Tons Per Year</u> |
|------------------|----------------------|
| PE               | 1.0                  |
| NO <sub>x</sub>  | 3.1                  |

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**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

**Operations, Property, and/or Equipment - (P003) - Propane-Fired MAX-4000 Aluminum Sweat Furnace Controlled with an Afterburner**

| Applicable Rules/Requirements                          | Applicable Emissions Limitations/Control Measures  |
|--|--|
| OAC rule 3745-31-05(A)(3)                              | <p>Particulate emissions (PE) shall not exceed 0.23 pound per hour and 1.0 ton per year.</p> <p>Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 0.69 pound per hour and 3.1 tons per year.</p> <p>Visible particulate emissions shall not exceed 5% opacity as a three-minute average.</p> <p>The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart RRR.</p> |
| 40 CFR Part 63, Subpart RRR.                           | <p>Afterburner shall have a design residence time of 0.8 seconds or greater and an operating temperature of 1600 degrees F or greater.</p> <p>Dioxin/furan (D/F) emissions shall not exceed 0.8 nanogram TEQ per dscm (<math>3.5 \times 10^{-10}</math> gr per dscf) at 11 percent oxygen (O<sub>2</sub>).</p> <p>See A.2.a, B.1., C.1., C.2., D.1., and D.2. below.</p>   |
| OAC rule 3745-17-07(A)(1)<br>OAC rule 3745-17-11(B)(1) | The emission limitations specified by these rules are less stringent than the limitations established pursuant to OAC rule 3745-31-05(A)(3).   |

**2. Additional Terms and Conditions**

- 2.a [40 CFR Part 63.1505(f)]

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The owner or operator of a sweat furnace shall comply with the emission standard of paragraph (f)(2) of 40 CFR Part 63.1505.

- i. The owner or operator is not required to conduct a performance test to demonstrate compliance with the emission standard of paragraph (f)(2) of 40 CFR Part 63.1505, provided that the owner or operator operates and maintains an afterburner with a design residence time of 0.8 seconds or greater and an operating temperature of 1600 deg. F or greater.
- ii. The owner or operator of a sweat furnace at a secondary aluminum production facility that is a major or area source must not discharge or cause to be discharged to the atmosphere emissions in excess of 0.80 nanogram (ng) of D/F TEQ per dscm ( $3.5 \times 10^{-10}$  gr per dscf) at 11 percent oxygen (O<sub>2</sub>).

- 2.b** The hourly emissions limitations above were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance.

## **B. Operational Restrictions**

1. a. [40 CFR Part 63.1506(h)]

The owner or operator of a sweat furnace with emissions controlled by an afterburner must:

- i. Maintain the 3-hour block average operating temperature of each afterburner at or above 1600 deg. F.
- ii. Operate each afterburner in accordance with the operation, maintenance, and monitoring (OM&M) plan.

- b. [40 CFR Part 63.1506(p)]

When a process parameter or add-on air pollution control device operating parameter deviates from the value or range established during the performance test and incorporated in the OM&M plan, the owner or operator must initiate corrective action. Corrective action must restore operation of the affected source or emission unit (including the process or control device) to its normal or usual mode of operation as expeditiously as practical in accordance with good air

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pollution control practices for minimizing emissions. Corrective actions taken must include follow-up actions necessary to return the process or control device parameter level(s) to the value or range of values established during the performance test and steps to prevent the likely recurrence of the cause of a deviation.

2. The permittee shall burn only propane in this emissions unit.

**C. Monitoring and/or Record keeping Requirements**

## 1. a. [40 CFR Part 63.1510(b)]

The owner or operator must prepare and implement a written OM&M plan. The owner or operator of any new affected source must submit the OM&M plan to the responsible permitting authority within 90 days after the compliance date established by paragraph (b) of 40 CFR Part 63.1501 if no initial performance test is required. The plan must be accompanied by a written certification by the owner or operator that the OM&M plan satisfies all requirements of 40 CFR Part 63.1510 and is otherwise consistent with the requirements of 40 CFR Part 63, Subpart RRR. The owner or operator must comply with all of the provisions of the OM&M plan as submitted to the permitting authority, unless and until the plan is revised in accordance with the following procedures. If the permitting authority determines at any time after receipt of the OM&M plan that any revisions of the plan are necessary to satisfy the requirements of 40 CFR Part 63.1510 or 40 CFR Part 63, Subpart RRR, the owner or operator must promptly make all necessary revisions and resubmit the revised plan. If the owner or operator determines that any other revisions of the OM&M plan are necessary, such revisions will not become effective until the owner or operator submits a description of the changes and a revised plan incorporating them to the permitting authority. Each plan must contain the following information:

- i. Process and control device parameters to be monitored to determine compliance, along with established operating levels or ranges, as applicable, for each process and control device.
- ii. A monitoring schedule for each affected source and emission unit.
- iii. Procedures for the proper operation and maintenance of each process unit and add-on control device used to meet the applicable emission limits or standards in 40 CFR Part 63.1505.
- iv. Procedures for the proper operation and maintenance of monitoring devices or systems used to determine compliance, including:
  - a. Calibration and certification of accuracy of each monitoring device, at least once every 6 months, according to the manufacturer's instructions; and

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- b. Procedures for the quality control and quality assurance of continuous emission or opacity monitoring systems as required by the general provisions in Subpart A of 40 CFR Part 63.
- v. Procedures for monitoring process and control device parameters, including procedures for annual inspections of afterburners, and if applicable, the procedure to be used for determining charge/feed (or throughput) weight if a measurement device is not used.
- vi. Corrective actions to be taken when process or operating parameters or add-on control device parameters deviate from the value or range established in paragraph (b)(1) of 40 CFR Part 63.1510, including:
  - a. Procedures to determine and record the cause of any deviation or excursion, and the time the deviation or excursion began and ended; and
  - b. Procedures for recording the corrective action taken, the time corrective action was initiated, and the time/date corrective action was completed.
- vii. A maintenance schedule for each process and control device that is consistent with the manufacturer's instructions and recommendations for routine and long-term maintenance.
- b. [40 CFR Part 63.1510(g)]

These requirements apply to the owner or operator of an affected source using an afterburner to comply with the requirements of 40 CFR Part 63, Subpart RRR.

- i. The owner or operator must install, calibrate, maintain, and operate a device to continuously monitor and record the operating temperature of the afterburner consistent with the requirements for continuous monitoring systems in Subpart A of 40 CFR Part 63.
- ii. The temperature monitoring device must meet each of these performance and equipment specifications:

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- a. The temperature monitoring device must be installed at the exit of the combustion zone of each afterburner.
  - b. The monitoring system must record the temperature in 15-minute block averages and determine and record the average temperature for each 3-hour block period.
  - c. The recorder response range must include zero and 1.5 times the average temperature established according to the requirements in paragraph (m) of 40 CFR Part 63.1512.
  - d. The reference method must be a National Institute of Standards and Technology calibrated reference thermocouple-potentiometer system or alternate reference, subject to approval by the Administrator.
- iii. The owner or operator must conduct an inspection of each afterburner at least once a year and record the results. At a minimum, an inspection must include:
- a. Inspection of all burners, pilot assemblies, and pilot sensing devices for proper operation and clean pilot sensor;
  - b. Inspection for proper adjustment of combustion air;
  - c. Inspection of internal structures (e.g., baffles) to ensure structural integrity;
  - d. Inspection of dampers, fans, and blowers for proper operation;
  - e. Inspection for proper sealing;
  - f. Inspection of motors for proper operation;
  - g. Inspection of combustion chamber refractory lining and clean and replace lining as necessary;
  - h. Inspection of afterburner shell for corrosion and/or hot spots;
  - i. Documentation, for the burn cycle that follows the inspection, that the afterburner is operating properly and any necessary adjustments have been made; and

- j. Verification that the equipment is maintained in good operating condition.
  - k. Following an equipment inspection, all necessary repairs must be completed in accordance with the requirements of the OM&M plan.
- c. [40 CFR Part 63.1510(w)]

If an owner or operator wishes to use an alternative monitoring method to demonstrate compliance with any emission standard in 40 CFR Part 63, Subpart RRR, other than those alternative monitoring methods which may be authorized pursuant to paragraphs (j)(5) and (v) of 40 CFR Part 63.1510, the owner or operator may submit an application to the Administrator. Any such application will be processed according to the criteria and procedures set forth in paragraphs (w)(1) through (6) of 40 CFR Part 63.1510.

- i. The Administrator will not approve averaging periods other than those specified in 40 CFR Part 63.1510.
- ii. The owner or operator must continue to use the original monitoring requirement until necessary data are submitted and approval is received to use another monitoring procedure.
- iii. The owner or operator shall submit the application for approval of alternate monitoring methods no later than the notification of the performance test. The application must contain the information specified in paragraphs (w)(3)(i) through (iii) of 40 CFR Part 63.1510:
  - a. Data or information justifying the request, such as the technical or economic infeasibility, or the impracticality of using the required approach;
  - b. A description of the proposed alternative monitoring requirements, including the operating parameters to be monitored, the monitoring approach and technique, and how the limit is to be calculated; and
  - c. Data and information documenting that the alternative monitoring requirement(s) would provide equivalent or better assurance of compliance with the relevant emission standard(s).

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- iv. The Administrator will not approve an alternate monitoring application unless it would provide equivalent or better assurance of compliance with the relevant emission standard(s). Before disapproving any alternate monitoring application, the Administrator will provide:
  - a. Notice of the information and findings upon which the intended disapproval is based; and
  - b. Notice of opportunity for the owner or operator to present additional supporting information before final action is taken on the application. This notice will specify how much additional time is allowed for the owner or operator to provide additional supporting information.
- v. The owner or operator is responsible for submitting any supporting information in a timely manner to enable the Administrator to consider the application prior to the performance test. Neither submittal of an application nor the Administrator's failure to approve or disapprove the application relieves the owner or operator of the responsibility to comply with any provisions of 40 CFR Part 63, Subpart RRR.
- vi. The Administrator may decide at any time, on a case-by-case basis, that additional or alternative operating limits, or alternative approaches to establishing operating limits, are necessary to demonstrate compliance with the emission standards of 40 CFR Part 63, Subpart RRR.

2. a. [40 CFR Part 63.1517(a)]

As required by paragraph (b) of 40 CFR Part 63.10, the owner or operator shall maintain files of all information (including all reports and notifications) required by the general provisions and 40 CFR Part 63, Subpart RRR.

- i. The owner or operator must retain each record for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The most recent 2 years of records must be retained at the facility. The remaining 3 years of records may be retained off site.
- ii. The owner or operator may retain records on microfilm, computer disks, magnetic tape, or microfiche; and
- iii. The owner or operator may report required information on paper or on a

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labeled computer disk using commonly available and EPA-compatible computer software.

b. [40 CFR Part 63.1517(b)]

In addition to the general records required by paragraph (b) of 40 CFR Part 63.10, the owner or operator of a new or existing affected source (including an emission unit in a secondary aluminum processing unit) must maintain records of:

- i. For each affected source with emissions controlled by an afterburner:
  - a. Records of 15-minute block average afterburner operating temperature, including any period when the average temperature in any 3-hour block period falls below the compliant operating parameter value with a brief explanation of the cause of the excursion and the corrective action taken; and
  - b. Records of annual afterburner inspections.
- ii. Records for any approved alternative monitoring or test procedure.
- iii. Current copy of all required plans, including any revisions, with records documenting conformance with the applicable plan, including:
  - a. Startup, shutdown, and malfunction plan; and
  - b. OM&M plan.

3. For each day during which the permittee burns a fuel other than propane, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

4. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. The color of the emissions;
- b. whether the emissions are representative of normal operations;

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- c. If the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. The total duration of any visible emission incident; and
- e. Any corrective actions taken to eliminate the visible emissions.

**D. Reporting Requirements**

- 1. a. [40 CFR Part 63.1515(a)]

The owner or operator must submit initial notifications to the applicable permitting authority as described in paragraphs (a)(1) through (7) of 40 CFR Part 63.1515.

- i. As required by paragraph (b)(1) of 40 CFR Part 63.9, the owner or operator must provide notification for an area source that subsequently increases its emissions such that the source is a major source subject to the standard.
- ii. As required by paragraph (b)(3) of 40 CFR Part 63.9, the owner or operator of a new or reconstructed affected source, or a source that has been reconstructed such that it is an affected source, that has an initial startup after the effective date of this subpart and for which an application for approval of construction or reconstruction is not required under paragraph (d) of 40 CFR Part 63.5, must provide notification that the source is subject to the standard.
- iii. As required by paragraph (b)(4) of 40 CFR Part 63.9, the owner or operator of a new or reconstructed major affected source that has an initial startup after the effective date of this subpart and for which an application for approval of construction or reconstruction is required by paragraph (d) of 40 CFR Part 63.5 must provide the following notifications:
  - a. Intention to construct a new major affected source, reconstruct a major source, or reconstruct a major source such that the source becomes a major affected source;
  - b. Date when construction or reconstruction was commenced (submitted simultaneously with the application for approval of construction or reconstruction if construction or reconstruction was

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commenced before the effective date of this subpart, or no later than 30 days after the date construction or reconstruction commenced if construction or reconstruction commenced after the effective date of 40 CFR Part 63, Subpart RRR);

- c. Anticipated date of startup; and
      - d. Actual date of startup.
- iv. As required by paragraph (b)(5) of 40 CFR Part 63.9, after the effective date of 40 CFR Part 63, Subpart RRR, an owner or operator who intends to construct a new affected source or reconstruct an affected source subject to 40 CFR Part 63, Subpart RRR, or reconstruct a source such that it becomes an affected source subject to 40 CFR Part 63, Subpart RRR, must provide notification of the intended construction or reconstruction. The notification must include all the information required for an application for approval of construction or reconstruction as required by paragraph (d) of 40 CFR Part 63.5. For major sources, the application for approval of construction or reconstruction may be used to fulfill these requirements.
  - a. The application must be submitted as soon as practicable before the construction or reconstruction is planned to commence (but no sooner than the effective date) if the construction or reconstruction commences after the effective date of 40 CFR Part 63, Subpart RRR; or
  - b. The application must be submitted as soon as practicable before startup but no later than 90 days after the effective date of 40 CFR Part 63, Subpart RRR, if the construction or reconstruction had commenced and initial startup had not occurred before the effective date.
- v. As required by paragraph (d) of 40 CFR Part 63.9, the owner or operator must provide notification of any special compliance obligations for a new source.
- vi. As required by paragraphs (e) and (f) of 40 CFR Part 63.9, the owner or operator must provide notification of the anticipated date for conducting performance tests and visible emission observations. The owner or operator must notify the Administrator of the intent to conduct a performance test at least 60 days before the performance test is scheduled; notification of opacity or visible emission observations for a performance

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test must be provided at least 30 days before the observations are scheduled to take place.

- vii. As required by paragraph (g) of 40 CFR Part 63.9, the owner or operator must provide additional notifications for sources with continuous emission monitoring systems or continuous opacity monitoring systems.

b. [40 CFR Part 63.1515(b)]

Each owner or operator of an existing affected source must submit a notification of compliance status report within 60 days after the compliance date established by paragraph (a) of 40 CFR Part 63.1501. Each owner or operator of a new affected source must submit a notification of compliance status report within 90 days of conducting the initial performance test required by paragraph (b) of 40 CFR Part 63.1511, or within 90 days after the compliance date established by paragraph (b) of 40 CFR Part 63.1501 if no initial performance test is required. The notification must be signed by the responsible official who must certify its accuracy. A complete notification of compliance status report must include the information specified in paragraphs (b)(1) through (10) of 40 CFR Part 63.1515. The required information may be submitted in an operating permit application, in an amendment to an operating permit application, in a separate submittal, or in any combination. In a State with an approved operating permit program where delegation of authority under section 112(l) of the CAA has not been requested or approved, the owner or operator must provide duplicate notification to the applicable Regional Administrator. If an owner or operator submits the information specified in 40 CFR Part 63.1515 at different times or in different submittals, later submittals may refer to earlier submittals instead of duplicating and resubmitting the information previously submitted. A complete notification of compliance status report must include:

- i. All information required in paragraph (h) of 40 CFR Part 63.9. The owner or operator must provide a complete performance test report for each affected source and emission unit for which a performance test is required. A complete performance test report includes all data, associated measurements, and calculations (including visible emission and opacity tests).
- ii. The approved site-specific test plan and performance evaluation test results for each continuous monitoring system (including a continuous emission or opacity monitoring system).

- iii. Unit labeling as described in paragraph (b) of 40 CFR Part 63.1506, including process type or furnace classification and operating requirements.
- iv. The compliant operating parameter value or range established for each affected source or emission unit with supporting documentation and a description of the procedure used to establish the value (e.g., lime injection rate, total reactive chlorine flux injection rate, afterburner operating temperature, fabric filter inlet temperature), including the operating cycle or time period used in the performance test.
- v. Design information and analysis, with supporting documentation, demonstrating conformance with the requirements for capture/collection systems in paragraph (c) of 40 CFR Part 63.1506.
- vi. If applicable, analysis and supporting documentation demonstrating conformance with EPA guidance and specifications for bag leak detection systems in paragraph (f) of 40 CFR Part 63.1510.
- vii. Manufacturer's specification or analysis documenting the design residence time of no less than 1 second for each afterburner used to control emissions from a scrap dryer/delacquering kiln/decoating kiln subject to alternative emission standards in paragraph (e) of 40 CFR Part 63.1505.
- viii. Manufacturer's specification or analysis documenting the design residence time of no less than 0.8 seconds and design operating temperature of no less than 1,600 deg. F for each afterburner used to control emissions from a sweat furnace that is not subject to a performance test.
- ix. The OM&M plan (including site-specific monitoring plan for each group 1 furnace with no add-on air pollution control device).
- x. Startup, shutdown, and malfunction plan, with revisions.

2. a. [40 CFR Part 63.1516(a)]

The owner or operator must develop and implement a written plan as described in paragraph (e)(3) of 40 CFR Part 63.6 that contains specific procedures to be followed for operating and maintaining the source during periods of startup, shutdown, and malfunction, and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the standard.

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The owner or operator shall also keep records of each event as required by paragraph (b) of 40 CFR Part 63.10 and record and report if an action taken during a startup, shutdown, or malfunction is not consistent with the procedures in the plan as described in paragraph (e)(3) of 40 CFR Part 63.6. In addition to the information required in paragraph (e)(3) of 40 CFR Part 63.6, the plan must include:

- i. Procedures to determine and record the cause of the malfunction and the time the malfunction began and ended; and
- ii. Corrective actions to be taken in the event of a malfunction of a process or control device, including procedures for recording the actions taken to correct the malfunction or minimize emissions.

b. [40 CFR Part 63.1516(b)]

The owner or operator must submit semiannual reports according to the requirements in paragraph (e)(3) of 40 CFR Part 63.10. Except, the owner or operator must submit the semiannual reports within 60 days after the end of each 6-month period instead of within 30 days after the calendar half as specified in paragraph (e)(3)(v) of 40 CFR Part 63.10. When no deviations of parameters have occurred, the owner or operator must submit a report stating that no excess emissions occurred during the reporting period.

- i. A report must be submitted if any of these conditions occur during a 6-month reporting period:
  - a. An excursion of a compliant process or operating parameter value or range (e.g. afterburner operating temperature, definition of acceptable scrap, or other approved operating parameter).
  - b. An action taken during a startup, shutdown, or malfunction was not consistent with the procedures in the plan as described in paragraph (e)(3) of 40 CFR Part 63.6.
  - c. An affected source (including an emission unit in a secondary aluminum processing unit) was not operated according to the requirements of 40 CFR Part 63, Subpart RRR.

3. The permittee shall submit semiannual written reports that (a) identify all days during

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which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Ohio EPA Southeast District Office) by January 31 and July 31 of each year and shall cover the previous 6-month periods.

## E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation:

PE shall not exceed 0.23 pound per hour and 1.0 ton per year.

Applicable Compliance Method:

Compliance with the hourly emission limitation may be demonstrated by the following one-time calculation based on similar source emissions testing.

$$= 0.03 \text{ gr/dscf} \times 1 \text{ lb/7000 gr} \times 862 \text{ cfm} \times 60 \text{ min/hour} = 0.222 \text{ lb/hr}$$

If required, compliance with the hourly emission limitation shall be determined according to test Methods 1 - 5, as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources."

Compliance with the annual emission limitation shall be demonstrated by multiplying the maximum hourly emission rate of 0.222 lb/hr by the maximum annual operating hours of 8760 and by 0.0005 ton/lb.

- b. Emission Limitation:

NO<sub>x</sub> emissions shall not exceed 0.69 pound per hour and 3.1 tons per year.

Applicable Compliance Method:

Compliance with the hourly emission limitation may be demonstrated by the following one-time calculation using the AP-42 emission factor (Section 1.5.3, October 1996) and the maximum fuel usage.

$$\begin{aligned} \text{NO}_x &= 14 \text{ lbs/1000 gals} \times 49 \text{ gals/hr} \\ &= 0.69 \text{ lb/hr} \end{aligned}$$

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If required, compliance with the hourly emission limitation shall be determined according to test Methods 1 - 4, and 7 as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources."

Compliance with the annual emission limitation shall be demonstrated by multiplying the maximum hourly emission rate of 0.69 lb/hr by the maximum annual operating hours of 8760 and by 0.0005 ton/lb.

c. Emission Limitation:

Visible particulate emissions shall not exceed 5% opacity as a three-minute average.

Applicable Compliance Method:

If required, compliance shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources."

d. Emission Limitation:

D/F emissions shall not exceed 0.8 nanogram TEQ per dscm ( $3.5 \times 10^{-10}$  gr per dscf) at 11 percent oxygen (O<sub>2</sub>).

Applicable Compliance Method:

Compliance may be demonstrated by the monitoring and recordkeeping requirements contained in Section C. of this permit. A performance test is not required provided that the permittee operates and maintains an afterburner with a design residence time of 0.8 seconds or greater and an operating temperature of 1600 deg. F or greater.

If required, compliance with the mass emission limitation shall be determined according to test Methods 1 - 4, and 23 as set forth in the "Appendix on Test Methods" in 40 CFR Part 60 "Standards of Performance for New Stationary Sources."

**F. Miscellaneous Requirements**

None