



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: April 20, 2026

Effective Date: April 20, 2026

Expiration Date: October 28, 2027

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 construct, install, modify or reactivate the air emission source(s) more fully described in the site inventory list. This Facility is subject to all terms and conditions specified in this plan approval. Nothing in this plan approval 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 plan approval condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated as "State-Only" requirements.

Plan Approval No. 63-01094A

Federal Tax Id - Plant Code: 93-2368990-3

Owner Information

Name: ALUMICORE VENTURES LLC
Mailing Address: 501 WESTERN AVE
HOUSTON, PA 15342-1541

Plant Information

Plant: ALUMICORE VENTURES LLC/HOUSTON
Location: 63 Washington County 63937 Houston Borough
SIC Code:

Responsible Official

Name: JOHN HUDOCK
Title: VP
Phone: (412) 475 - 1692 Email: JHUDOCK@ALUMICORE.NET

Plan Approval Contact Person

Name: JOHN HUDOCK
Title: VP
Phone: (412) 475 - 1692 Email: JHUDOCK@ALUMICORE.NET

[Signature] _____

MARK R. GOROG, P.E., ENVIRONMENTAL PROGRAM MANAGER, SOUTHWEST REGION



Plan Approval Description

This plan approval is for the following sources:

- Source ID: 201- One (1) Rotary Melting Furnace, manufactured by Tristate Industries equipped with one (1) 20.0 MMBtu/hr Low NOx Oxy-Fuel Burner manufactured by Messer model OXIPYR AR-6-20 that is rated to process 6.0 tons/hour of aluminum scrap and dross that is controlled with one (1) baghouse manufactured by Clone, model 1223-171 that is rated at 60,000 scfm that is lime injected with a removal efficiency of 99% PM, 99% PM10, and 99% PM2.5 and equipped with a Bag Leak Detection System (BLDS) (Control ID: C201).
- Source ID: 202-One (1) Sidewell Reverberatory Furnace, manufactured by Haberny Company equipped with two (2) Low NOx Natural Gas Burners with a combined 20.0 MMBtu/hr capacity manufactured by Fives model North American 4575 HiRAM that is rated to process 9.0 tons/hour of aluminum scrap and dross that is controlled with one (1) baghouse manufactured by Clone, model 1223-171 that is rated at 45,000 scfm that is lime injected with a removal efficiency of 99% PM, 99% PM10, and 99% PM2.51 and equipped with a Bag Leak Detection System (BLDS) (Control ID: C202).
- Source ID: 203-One (1) Delacquering Kiln manufactured by FEECO equipped with two (2) natural gas burners with a combined 10.4 MMBtu/hr capacity manufactured by Fives model 4514-8-A that is rated to process 10.0 tons/hour of aluminum scrap that is controlled with one (1) afterburner manufactured by FEECO model Fire-All 4514-8-B with two (2) natural gas fired burners rated at 8.6 MMBtu/hr each (Control ID: C203A) and one (1) baghouse manufactured by Clone, model 1223-171 that is rated at 45,000 scfm that is lime injected with a removal efficiency of 99% PM, 99% PM10, 99% PM2.5 and equipped with a Bag Leak Detection System (BLDS) (Control ID: C203B)
- Source ID: 700- Fugitive emissions from pouring and salt cake cooling
- Source ID: 701- Roadways

The proposed facility has a SIC of 3341 (secondary aluminum processing).



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

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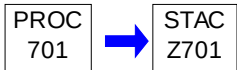
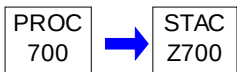
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**SECTION A. Plan Approval Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
201	20 MMBTU/HR ROTARY MELTING FURNACE		
202	20 MMBTU/HR SIDEWELL REVERB FURNACE		
203	10.4 MMBTU/HR DELACQUERING KILN		
700	FUGITIVES		
701	ROADWAYS		
C201	ROTARY FURNACE BAGHOUSE		
C202	SIDEWELL REVERB FURNACE BAGHOUSE		
C203A	DELACQUERING KILN AFTERBURNER		
C203B	DELACQUERING KILN BAGHOUSE		
S201	ROTARY MELTING FURNACE STACK		
S202	SIDEWELL REVERB FURNACE STACK		
S203	DELACQUERING KILN STACK		
Z700	FUGITIVE STACK		
Z701	ROADWAY STACK		

PERMIT MAPS

**SECTION B. General Plan Approval Requirements****#001 [25 Pa. Code § 121.1]****Definitions**

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

#002 [25 Pa. Code § 127.12b (a) (b)]**Future Adoption of Requirements**

The issuance of this plan approval does not prevent the future adoption by the Department of any rules, regulations or standards, or the issuance of orders necessary to comply with the requirements of the Federal Clean Air Act or the Pennsylvania Air Pollution Control Act, or to achieve or maintain ambient air quality standards. The issuance of this plan approval shall not be construed to limit the Department's enforcement authority.

#003 [25 Pa. Code § 127.12b]**Plan Approval Temporary Operation**

This plan approval authorizes temporary operation of the source(s) covered by this plan approval provided the following conditions are met.

(a) When construction, installation, modification, or reactivation is being conducted, the permittee shall provide written notice to the Department of the completion of the activity approved by this plan approval and the permittee's intent to commence operation at least five (5) working days prior to the completion of said activity. The notice shall state when the activity will be completed and when the permittee expects to commence operation. When the activity involves multiple sources on different time schedules, notice is required for the commencement of operation of each source.

(b) Pursuant to 25 Pa. Code § 127.12b (d), temporary operation of the source(s) is authorized to facilitate the shakedown of sources and air cleaning devices, to permit operations pending the issuance of a permit under 25 Pa. Code Chapter 127, Subchapter F (relating to operating permits) or Subchapter G (relating to Title V operating permits) or to permit the evaluation of the air contaminant aspects of the source.

(c) This plan approval authorizes a temporary operation period not to exceed 180 days from the date of commencement of operation, provided the Department receives notice from the permittee pursuant to paragraph (a), above.

(d) The permittee may request an extension of the 180-day shakedown period if further evaluation of the air contamination aspects of the source(s) is necessary. The request for an extension shall be submitted, in writing, to the Department at least 30 days prior to the end of the initial 180-day shakedown period and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established. This temporary operation period will be valid for a limited time and may be extended for additional limited periods, each not to exceed 180 days.

(e) The notice submitted by the permittee pursuant to subpart (a) above, prior to the expiration of the plan approval, shall modify the plan approval expiration date on Page 1 of this plan approval. The new plan approval expiration date shall be 180 days from the date of commencement of operation.

#004 [25 Pa. Code § 127.12(a) (10)]**Content of Applications**

The permittee shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice as described in the plan approval application submitted to the Department.

#005 [25 Pa. Code §§ 127.12(c) and (d) & 35 P.S. § 4013.2]**Public Records and Confidential Information**

(a) The records, reports or information obtained by the Department or referred to at public hearings shall be available to the public, except as provided in paragraph (b) of this condition.

(b) Upon cause shown by the permittee that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the act, if made public, would divulge production or sales figures or methods, processes or production unique to that person or would otherwise tend to affect adversely the

**SECTION B. General Plan Approval Requirements**

competitive position of that person by revealing trade secrets, including intellectual property rights, the Department will consider the record, report or information, or particular portion thereof confidential in the administration of the act. The Department will implement this section consistent with sections 112(d) and 114(c) of the Clean Air Act (42 U.S.C.A. § 7412(d) and 7414(c)). Nothing in this section prevents disclosure of the report, record or information to Federal, State or local representatives as necessary for purposes of administration of Federal, State or local air pollution control laws, or when relevant in a proceeding under the act.

#006 [25 Pa. Code § 127.12b]**Plan Approval Terms and Conditions**

[Additional authority for this condition is derived from 25 Pa. Code Section 127.13]

(a) This plan approval will be valid for a limited time, as specified by the expiration date contained on Page 1 of this plan approval. Except as provided in § 127.11a and 127.215 (relating to reactivation of sources; and reactivation), at the end of the time, if the construction, modification, reactivation or installation has not been completed, a new plan approval application or an extension of the previous approval will be required.

(b) If construction has commenced, but cannot be completed before the expiration of this plan approval, an extension of the plan approval must be obtained to continue construction. To allow adequate time for departmental action, a request for the extension shall be postmarked at least thirty (30) days prior to the expiration date. The request for an extension shall include the following:

- (i) A justification for the extension,
- (ii) A schedule for the completion of the construction

If construction has not commenced before the expiration of this plan approval, then a new plan approval application must be submitted and approval obtained before construction can commence.

(c) If the construction, modification or installation is not commenced within 18 months of the issuance of this plan approval or if there is more than an 18-month lapse in construction, modification or installation, a new plan approval application that meets the requirements of 25 Pa. Code Chapter 127, Subchapter B (related to plan approval requirements), Subchapter D (related to prevention of significant deterioration of air quality), and Subchapter E (related to new source review) shall be submitted. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified.

#007 [25 Pa. Code § 127.32]**Transfer of Plan Approvals**

(a) This plan approval may not be transferred from one person to another except when a change of ownership is demonstrated to the satisfaction of the Department and the Department approves the transfer of the plan approval in writing.

(b) Section 127.12a (relating to compliance review) applies to a request for transfer of a plan approval. A compliance review form shall accompany the request.

(c) This plan approval is valid only for the specific source and the specific location of the source as described in the application.

#008 [25 Pa. Code § 127.12(a)(4) & 35 P.S. § 4008 & § 114 of the CAA]**Inspection and Entry**

(a) 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.

(b) The permittee shall also allow the Department to have access at reasonable times to said sources and associated air cleaning devices with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act and regulations adopted under the act.

**SECTION B. General Plan Approval Requirements**

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

#009 [25 Pa. Code 127.13a]**Plan Approval Changes for Cause**

This plan approval may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

- (a) The permittee constructs or operates the source subject to the plan approval in violation of the act, the Clean Air Act, the regulations promulgated under the act or the Clean Air Act, a plan approval or permit or in a manner that causes air pollution.
- (b) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.
- (c) The permittee fails to submit a report required by this plan approval.
- (d) The Environmental Protection Agency determines that this plan approval is not in compliance with the Clean Air Act or the regulations thereunder.

#010 [25 Pa. Code §§ 121.9 & 127.216]**Circumvention**

- (a) The permittee, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.
- (b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this plan approval, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#011 [25 Pa. Code § 127.12c]**Submissions**

Reports, test data, monitoring data, notifications shall be submitted to the:

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

#012 [25 Pa. Code § 127.12(a)(9) & 40 CFR Part 68]**Risk Management**

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

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

(1) The permittee shall submit the first RMP to a central point specified by the Environmental Protection Agency no later than the latest of the following:

**SECTION B. General Plan Approval Requirements**

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

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

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

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

#013 [25 Pa. Code § 121.7]**Prohibition of Air Pollution**

No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. §§ 4001-4015).

#014 [25 Pa. Code § 127.25]**Compliance Requirement**

A person may not cause or permit the operation of a source subject to § 127.11 (relating to plan approval requirements), unless the source and air cleaning devices identified in the application for the plan approval and the plan approval issued to the source, are operated and maintained in accordance with specifications in the application and conditions in the plan approval issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.

**SECTION C. Site Level Plan Approval Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §121.7]****Prohibition of air pollution.**

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

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

The permittee may not permit the emission into the outdoor atmosphere of a fugitive air contamination from a source other than those allowed under 25 Pa Code §123.1.

003 [25 Pa. Code §123.2]**Fugitive particulate matter**

The owner/operator may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 25 Pa Code §123.1(a)(1)-(9) (relating to prohibitions of certain fugitive emissions) if the emissions are visible at the point the emissions pass outside the owner/operator's property.

004 [25 Pa. Code §123.31]**Limitations**

A person may not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source, in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

005 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The operation of the facility shall not cause to be discharged into the atmosphere from any building enclosure or any other affected emission unit any visible emissions except from a stack.

006 [25 Pa. Code §129.14]**Open burning operations**

No person may permit the open burning of material in an area outside an air basin in a manner that:

1. The emissions are visible, at any time, at the point such emissions pass outside the property of the person on whose land the open burning is being conducted.
2. Malodorous air contaminants from open burning are detectable outside the property of the person on whose land the open burning is being conducted.
3. The emissions interfere with the reasonable enjoyment of life or property.
4. The emissions cause damage to vegetation or property
5. The emissions are or may be deleterious to human or animal health.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1501]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production Dates.**

Alumicore shall comply with all requirements of 40 CFR Part 63 Subpart RRR upon startup of the facility.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1510]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production Monitoring requirements.**

(s)Site-specific requirements for secondary aluminum processing units.

(1) An owner or operator of a secondary aluminum processing unit at a facility must include, within the OM&M plan prepared in accordance with § 63.1510(b), the following information:

- (i) The identification of each emission unit in the secondary aluminum processing unit;
- (ii) The specific control technology or pollution prevention measure to be used for each emission unit in the secondary aluminum processing unit and the date of its installation or application;
- (iii) The emission limit calculated for each secondary aluminum processing unit and performance test results with supporting calculations demonstrating initial compliance with each applicable emission limit;

**SECTION C. Site Level Plan Approval Requirements**

(iv) Information and data demonstrating compliance for each emission unit with all applicable design, equipment, work practice or operational standards of this subpart; and

(v) The monitoring requirements applicable to each emission unit in a secondary aluminum processing unit and the monitoring procedures for daily calculation of the 3-day, 24-hour rolling average using the procedure in § 63.1510(t).

(2) The SAPU compliance procedures within the OM&M plan may not contain any of the following provisions:

(i) Any averaging among emissions of differing pollutants;

(ii) The inclusion of any affected sources other than emission units in a secondary aluminum processing unit;

(iii) The inclusion of any emission unit while it is shutdown; or

(iv) The inclusion of any periods of startup or shutdown in emission calculations.

(3) To revise the SAPU compliance provisions within the OM&M plan prior to the end of the permit term, the owner or operator must submit a request to the permitting authority for major sources, or the Administrator for area sources containing the information required by paragraph (s)(1) of this section and obtain approval of the permitting authority for major sources, or the Administrator for area sources prior to implementing any revisions.

(t) N/A

(u) Secondary aluminum processing unit compliance by individual emission unit demonstration. As an alternative to the procedures of paragraph (t) of this section, an owner or operator may demonstrate, through performance tests, that each individual emission unit within the secondary aluminum production unit is in compliance with the applicable emission limits for the emission unit.

II. TESTING REQUIREMENTS.

009 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall conduct follow-up testing every five (5) years in accordance with 40 CFR 63.1505 and 63.1512.

III. MONITORING REQUIREMENTS.

010 [25 Pa. Code §123.43]

Measuring techniques

Visible emissions may be measured using either of the following:

- a) A device approved by the Department and maintained to provide accurate opacity measurements.
- b) Observers trained and qualified to measure plume opacity with the naked eye or with the aid of a device approved by the Department.

011 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

A facility-wide inspection shall be conducted at a minimum of once each day that the facility operates by the owner/operator. The facility-wide inspection shall be conducted for the presence of the following:

- a) Visible stack emissions
- b) Fugitive emissions
- c) Potentially objectionable odors at the property line

These observations are to ensure continued compliance with source-specific visible emission limitations, fugitive emissions prohibited under 25 Pa Code §§123.1 or 123.2, and malodors prohibited under 25 Pa Code §123.31.

Observations for visible stack emissions shall be conducted during daylight hours and all observations shall be conducted

**SECTION C. Site Level Plan Approval Requirements**

for all sources in operation at the time of the facility-wide inspection. If any visible stack emissions, fugitive emissions, or potentially objectionable odors are apparent, the owner/operator shall take corrective action.

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

Monitoring records stating daily visible emission, applicable PM limitations, pressure differential readings, emission records and any corrective actions shall be kept on site for a minimum of five (5) years and shall be made available to the Department upon request.

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

The permittee shall maintain the following comprehensive and accurate records:

- (a) Facility-wide emissions on a 12-month rolling basis for NO_x, CO, VOC, PM, PM₁₀, PM_{2.5}, SO_x, speciated HAPs including but not limited to HCl, HF, Dioxin, Furans, total HAPs, and CO₂e.
- (b) Results of daily facility-wide inspections for visible stack emissions, fugitive emissions, and/or potentially objectionable odors including the date, time, name, and title of the observer, along with any corrective actions taken as a result.
- (c) Copies of the manufacturer's recommended maintenance schedule for each air source and air cleaning device.
- (d) All maintenance performed on each source and air cleaning device

014 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall maintain comprehensive and accurate records that demonstrate compliance with the following requirements for five (5) years

- Rotary Melting Furnace (Source ID: 201) shall not exceed 1,000 hours of operation on a twelve-month rolling basis
- Sidewell Reverberatory Furnace (Source ID: 202) shall not exceed 6,000 hours of operation on a twelve-month rolling basis
- Delacquering Kiln (Source ID: 203) shall not exceed 6,000 hours of operation on a twelve-month rolling basis

015 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall maintain comprehensive and accurate records that demonstrate compliance with the following requirements for five (5) years

- Rotary Melting Furnace (Source ID: 201) shall only use oxy-fuel with a sulfur content equal to or less than pipeline grade natural gas
- Sidewell Reverberatory Furnace (Source ID: 202) shall only use pipeline grade natural gas
- Delacquering Kiln (Source ID: 203) shall only use pipeline grade natural gas

016 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall maintain comprehensive and accurate records that demonstrate compliance with the following requirements for five (5) years

- Rotary Melting Furnace (Source ID: 201) and Sidewell Reverberatory Furnace (Source ID: 202) shall only use dross flux AMLOX-720 manufactured by American Metal Chemical Corp when processing dross or a chemically equivalent dross flux
- Rotary Melting Furnace (Source ID: 201) and Sidewell Reverberatory Furnace (Source ID: 202) shall only use scrap flux A-575-2 manufactured by American Metal Chemical Corp when processing scrap or a chemically equivalent scrap flux.

017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1517]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production Records**

(a) As required by § 63.10(b), the owner or operator shall maintain files of all information (including all reports and notifications) required by the general provisions and this subpart.

**SECTION C. Site Level Plan Approval Requirements**

- (1) 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.
- (2) The owner or operator may retain records on microfilm, computer disks, magnetic tape, or microfiche; and
- (3) The owner or operator may report required information on paper or on a labeled computer disk using commonly available and EPA-compatible computer software.
- (b) In addition to the general records required by § 63.10(b), 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:
 - (1) For each affected source and emission unit with emissions controlled by a fabric filter or a lime-injected fabric filter:
 - (i) If a bag leak detection system is used, the number of total operating hours for the affected source or emission unit during each 6-month reporting period, records of each alarm, the time of the alarm, the time corrective action was initiated and completed, and a brief description of the cause of the alarm and the corrective action(s) taken.
 - (ii) If a continuous opacity monitoring system is used, records of opacity measurement data, including records where the average opacity of any 6-minute period exceeds 5 percent, with a brief explanation of the cause of the emissions, the time the emissions occurred, the time corrective action was initiated and completed, and the corrective action taken.
 - (iii) If an aluminum scrap shredder is subject to visible emission observation requirements, records of all Method 9 observations, including records of any visible emissions during a 30-minute daily test or records of all ASTM D7520-13 observations (incorporated by reference, see § 63.14), including data sheets and all raw unaltered JPEGs used for opacity determination, with a brief explanation of the cause of the emissions, the time the emissions occurred, the time corrective action was initiated and completed, and the corrective action taken.
 - (2) For each affected source with emissions controlled by an afterburner:
 - (i) 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
 - (ii) Records of annual afterburner inspections.
 - (3) For each scrap dryer/delacquering kiln/decoating kiln and group 1 furnace, subject to D/F and HCl emission standards with emissions controlled by a lime-injected fabric filter, records of 15-minute block average inlet temperatures for each lime-injected fabric filter, including any period when the 3-hour block average temperature exceeds the compliant operating parameter value +14 °C (+ 25 °F), with a brief explanation of the cause of the excursion and the corrective action taken
 - (4) For each affected source and emission unit with emissions controlled by a lime-injected fabric filter:
 - (i) Records of inspections at least once every 8-hour period verifying that lime is present in the feeder hopper or silo and flowing, including any inspection where blockage is found, with a brief explanation of the cause of the blockage and the corrective action taken, and records of inspections at least once every 4-hour period for the subsequent 3 days. If flow monitors, pressure drop sensors or load cells are used to verify that lime is present in the hopper and flowing, records of all monitor or sensor output including any event where blockage was found, with a brief explanation of the cause of the blockage and the corrective action taken;
 - (ii) If lime feeder setting is monitored, records of daily and monthly inspections of feeder setting, including records of any deviation of the feeder setting from the setting used in the performance test, with a brief explanation of the cause of the deviation and the corrective action taken. If a lime feeder has been repaired or replaced, this action must be documented along with records of the new feeder calibration and the feed mechanism set points necessary to maintain the lb/hr feed rate operating limit. These records must be maintained on site and available upon request.
 - (iii) If lime addition rate for a noncontinuous lime injection system is monitored pursuant to the approved alternative monitoring requirements in § 63.1510(v), records of the time and mass of each lime addition during each operating cycle or time period used in the performance test and calculations of the average lime addition rate (lb/ton of feed/charge).
 - (5) For each group 1 furnace (with or without add-on air pollution control devices) or in-line fluxer, records of 15-minute block average weights of gaseous or liquid reactive flux injection, total reactive flux injection rate and calculations (including records of the identity, composition, and weight of each addition of gaseous, liquid or solid reactive flux), including records of any period the rate exceeds the compliant operating parameter value and corrective action taken.
 - (6) For each continuous monitoring system, records required by § 63.10(c).
 - (7) For each affected source and emission unit subject to an emission standard in kg/Mg (lb/ton) of feed/charge, records of feed/charge (or throughput) weights for each operating cycle or time period used in the performance test.
 - (8) Approved site-specific monitoring plan for a group 1 furnace without add-on air pollution control devices with records documenting conformance with the plan.
 - (9) Records of all charge materials for each thermal chip dryer, dross-only furnace, and group 1 melting/holding furnaces without air pollution control devices processing only clean charge.
 - (10) Operating logs for each group 1 sidewall furnace with add-on air pollution control devices documenting conformance

**SECTION C. Site Level Plan Approval Requirements**

with operating standards for maintaining the level of molten metal above the top of the passage between the sidewell and hearth during reactive flux injection and for adding reactive flux only to the sidewell or a furnace hearth equipped with a control device for PM, HCl, and D/F emissions.

(11) For each in-line fluxer for which the owner or operator has certified that no reactive flux was used:

- (i) Operating logs which establish that no source of reactive flux was present at the in-line fluxer;
- (ii) Labels required pursuant to § 63.1506(b) which establish that no reactive flux may be used at the in-line fluxer; or
- (iii) Operating logs which document each flux gas, agent, or material used during each operating cycle.

(12) Records of all charge materials and fluxing materials or agents for a group 2 furnace.

(13) Records of monthly inspections for proper unit labeling for each affected source and emission unit subject to labeling requirements.

(14) Records of annual inspections of emission capture/collection and closed vent systems or, if the alternative to the annual flow rate measurements is used, records of differential pressure; fan RPM or fan motor amperage; static pressure measurements; or duct centerline velocity using a hotwire anemometer, ultrasonic flow meter, cross-duct pressure differential sensor, venturi pressure differential monitoring or orifice plate equipped with an associated thermocouple, as appropriate.

(15) Records for any approved alternative monitoring or test procedure.

(16) Current copy of all required plans, including any revisions, with records documenting conformance with the applicable plan, including:

- (i) [Reserved]
- (ii) OM&M plan; and
- (iii) Site-specific secondary aluminum processing unit emission plan (if applicable).

(17) For each secondary aluminum processing unit, records of total charge weight, or if the owner or operator chooses to comply on the basis of aluminum production, total aluminum produced for each 24-hour period and calculations of 3-day, 24-hour rolling average emissions.

(18) For any failure to meet an applicable standard, the owner or operator must maintain the following records;

- (i) Records of the emission unit ID, monitor ID, pollutant or parameter monitored, beginning date and time of the event, end date and time of the event, cause of the deviation or exceedance and corrective action taken.
- (ii) Records of actions taken during periods of malfunction to minimize emissions in accordance with § 63.1506(a)(5), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(19) For each period of startup or shutdown for which the owner or operator chooses to demonstrate compliance for an affected source, the owner or operator must comply with (b)(19)(i) or (ii) of this section.

(i) To demonstrate compliance based on a feed/charge rate of zero, a flux rate of zero and the use of electricity, propane or natural gas as the sole sources of heating or the lack of heating, the owner or operator must submit a semiannual report in accordance with § 63.1516(b)(2)(vii) or maintain the following records:

- (A) The date and time of each startup and shutdown;
 - (B) The quantities of feed/charge and flux introduced during each startup and shutdown; and
 - (C) The types of fuel used to heat the unit, or that no fuel was used, during startup and shutdown; or
- (ii) To demonstrate compliance based on performance tests, the owner or operator must maintain the following records:
- (A) The date and time of each startup and shutdown;
 - (B) The measured emissions in lb/hr or µg/hr or ng/hr;
 - (C) The measured feed/charge rate in tons/hr or Mg/hr from your most recent performance test associated with a production rate greater than zero, or the rated capacity of the affected source if no prior performance test data is available; and

(D) An explanation to support that such conditions are considered representative startup and shutdown operations.

(20) For owners or operators that choose to change furnace operating modes, the following records must be maintained:

- (i) The date and time of each change in furnace operating mode, and
- (ii) The nature of the change in operating mode (for example, group 1 controlled furnace processing other than clean charge to group 2).

V. REPORTING REQUIREMENTS.

018 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Malfunction reporting shall be conducted as follows

**SECTION C. Site Level Plan Approval Requirements**

- a. The permittee shall report malfunctions, emergencies or incidents of excess emissions 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. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
- b. When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department at 800-541-2050 and the County Emergency Management Agency by telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall submit a written or emailed report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.
- c. The report shall describe the following:
1. Name, permit or authorization number, and location of the facility;
 2. Nature and cause of the malfunction, emergency or incident;
 3. Date and time when the malfunction, emergency or incident was first observed;
 4. Expected duration of excess emissions;
 5. Estimated rate of emissions; and
 6. Corrective actions or preventative measures taken.
- d. Any malfunction, emergency or incident of excess emissions that is not subject to the notice requirements of paragraph (b) of this condition shall be reported to the Department by telephone within 24 hours (or by 4:00 PM of the next business day, whichever is later) of discovery and in writing or by e-mail within five (5) business days of discovery. The report shall contain the same information required by paragraph (c), and any permit specific malfunction reporting requirements.
- e. During an emergency an owner or operator may continue to operate the source at their discretion provided they submit justification for continued operation of a source during the emergency and follow all the notification and reporting requirements in accordance with paragraphs (b)-(d), as applicable, including any permit specific malfunction reporting requirements.
- f. Reports regarding malfunctions, emergencies or incidents of excess emissions shall be submitted to the appropriate DEP Regional Office Air Program Manager.
- g. Any emissions resulted from malfunction or emergency are to be reported in the annual emissions inventory report, if the annual emissions inventory report is required by permit or authorization

019 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

In accordance with 25 Pa Code §135.3, the owner or operator of a facility shall submit to the Department via AES*Online or AES*XML at www.depgreenport.state.pa.us/ by March 1st of each year, a facility inventory report for the preceding calendar year for all sources regulated under this plan approval. The inventory report shall include all emissions information for all sources operated during the preceding calendar year. Emissions data including, but not limited to, the following shall be reported:

NOx
CO
SOx
PM10

**SECTION C. Site Level Plan Approval Requirements**

PM2.5

VOC

Speciated HAP: including but not limited to HCl, HF, Dioxins, Furans,
Total HAP**# 020 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1516]****Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production Reports.**

(b) Excess emissions/summary report. The owner or operator of a major or area source must submit semiannual reports according to the requirements in § 63.10(e)(3). 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 § 63.10(e)(3)(v). 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.

(1) A report must be submitted if any of these conditions occur during a 6-month reporting period:

(i) The corrective action specified in the OM&M plan for a bag leak detection system alarm was not initiated within 1 hour.

(ii) N/A

(iii) N/A

(iv) An excursion of a compliant process or operating parameter value or range (e.g., lime injection rate or screw feeder setting, total reactive chlorine flux injection rate, afterburner operating temperature, fabric filter inlet temperature, definition of acceptable scrap, or other approved operating parameter).

(v) [Reserved]

(vi) An affected source (including an emission unit in a secondary aluminum processing unit) was not operated according to the requirements of this subpart.

(vii) N/A

(2) Each report must include each of these certifications, as applicable:

(i) N/A

(ii) N/A

(iii) For each sidewall group 1 furnace with add-on air pollution control devices: "Each furnace was operated such that the level of molten metal remained above the top of the passage between the sidewall and hearth during reactive fluxing, and reactive flux, except for cover flux, was added only to the sidewall or to a furnace hearth equipped with an add-on air pollution control device for PM, HCl, and D/F emissions during this reporting period."

(iv) N/A

(v) N/A

(vi) N/A

(vii) For each affected source choosing to demonstrate compliance during periods of startup and shutdown in accordance with § 63.1513(f)(1): "During each startup and shutdown, no flux and no feed/charge were added to the emission unit, and electricity, propane or natural gas were used as the sole source of heat or the emission unit was not heated."

(3) The owner or operator must submit the results of any performance test conducted during the reporting period, including one complete report documenting test methods and procedures, process operation, and monitoring parameter ranges or values for each test method used for a particular type of emission point tested.

(i) Within 60 days after the date of completing each performance test (as defined in § 63.2) required by this subpart, you must submit the results of the performance tests, including any associated fuel analyses, following the procedure specified in either paragraph (b)(3)(i)(A) or (B) of this section.

(A) For data collected using test methods supported by the EPA's Electronic Reporting Tool (ERT) as listed on the EPA's ERT Web site (https://www3.epa.gov/ttn/chiefert/ert_info.html), you must submit the results of the performance test to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI). (CEDRI can be accessed through the EPA's Central Data Exchange (CDX) (<https://cdx.epa.gov/>).) Performance test data must be submitted in a file format generated through the use of the EPA's ERT or an alternate electronic file format consistent with the extensible markup language (XML) schema listed on the EPA's ERT Web site. If you claim that some of the performance test information being submitted is confidential business information (CBI), you must submit a complete file generated through the use of the EPA's ERT or an alternate electronic file consistent with the XML schema listed on the EPA's ERT Web site, including information claimed to be CBI, on a compact disc, flash drive, or other commonly used electronic storage media to the EPA. The electronic media must be clearly marked as CBI and mailed to U.S. EPA/OAQPS/CORE CBI Office, Attention: Group Leader, Measurement Policy Group, MD C404-02, 4930 Old Page Rd., Durham, NC 27703. The same ERT or alternate file



SECTION C. Site Level Plan Approval Requirements

with the CBI omitted must be submitted to the EPA via the EPA's CDX as described earlier in this paragraph.

(B) For data collected using test methods that are not supported by the EPA's ERT as listed on the EPA's ERT Web site, you must submit the results of the performance test to the Administrator at the appropriate address listed in § 63.13.

(ii) [Reserved]

(4) A malfunction report that is required under paragraph (d) of this section shall be submitted simultaneously with the semiannual excess emissions/summary report required by paragraph (b) of this section.

(c) N/A

(1) N/A

(2) N/A

(d) If there was a malfunction during the reporting period, the owner or operator must submit a report that includes the emission unit ID, monitor ID, pollutant or parameter monitored, beginning date and time of the event, end date and time of the event, cause of the deviation or exceedance and corrective action taken for each malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must include a list of the affected source or equipment, an estimate of the quantity of each regulated pollutant emitted over any emission limit, and a description of the method used to estimate the emissions, including, but not limited to, product-loss calculations, mass balance calculations, measurements when available, or engineering judgment based on known process parameters. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with § 63.1506(a)(5).

(e) All reports required by this subpart not subject to the requirements in paragraph (b) of this section must be sent to the Administrator at the appropriate address listed in § 63.13. If acceptable to both the Administrator and the owner or operator of a source, these reports may be submitted on electronic media. The Administrator retains the right to require submittal of reports subject to paragraph (b) of this section in paper format.

VI. WORK PRACTICE REQUIREMENTS.

021 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

A person responsible for any source specified in 25 Pa Code 123.1 subsections (a)(1)-(7) or (9) shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions include, but not be limited to, the following:

- (1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings, 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
- (5) Minimize drop height from the loading equipment
- (6) Daily cleaning of loading equipment
- (7) Daily cleaning of any spillage of material

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this plan approval including Section B (relating to Plan Approval General Requirements).

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

**SECTION D. Source Level Plan Approval Requirements**

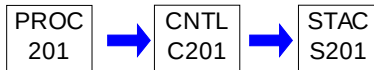
Source ID: 201

Source Name: 20 MMBTU/HR ROTARY MELTING FURNACE

Source Capacity/Throughput:

Conditions for this source occur in the following groups: G01

G02

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

Emission limits shall not be exceeded from the exhaust of the baghouse as follows

- o Hydrogen Chloride = 0.12 lb/hr
- o Particulate Matter = 2.72 lb/hr
- o Nitrogen Oxides = 0.44 lb/hr
- o Carbon Monoxide = 1.68 lb/hr
- o Filterable PM10 = 0.01 gr/dscf

Fuel Restriction(s).**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Alumicore shall only use an oxyfuel with sulfur content equal to or less than pipeline grader natural gas.

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

The hours of operation of this source shall not exceed one thousand (1,000) hours on a twelve (12) month rolling average basis.

II. TESTING REQUIREMENTS.**# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The owner or operator shall conduct performance testing that is in compliance with §63.7(c) and 25 Pa Code §139 that demonstrates compliance for the following emission restrictions

- o 15 µg of D/F TEQ per Mg (2.1×10^{-4} gr of D/F TEQ per ton) of feed/charge from a group 1 furnace at a secondary aluminum production facility that is a major or area source.
- o Hydrogen Chloride shall not exceed 0.12 lb/hr emission rate
- o Particulate Matter shall not exceed 2.72 lb/hr emission rate
- o Nitrogen Oxides shall not exceed 0.44 lb/hr emission rate
- o Carbon Monoxide shall not exceed 1.68 lb/hr emission rate
- o Filterable PM10 shall not exceed 0.01 gr/dscf emission rate
- o HF shall not exceed 0.4 lb/ton of feed/charge

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1512]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production Performance test/compliance demonstration requirements and procedures.**

Group 1 furnace with add-on air pollution control devices.



SECTION D. Source Level Plan Approval Requirements

(1) The owner or operator of a group 1 furnace that processes scrap other than clean charge materials with emissions controlled by a lime-injected fabric filter must conduct performance tests to measure emissions of PM and D/F at the outlet of the control device and emissions of HCl at the outlet (for the emission limit) or the inlet and the outlet (for the percent reduction standard).

(2) N/A

(3) N/A

(4) N/A

III. MONITORING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 202

Source Name: 20 MMBTU/HR SIDEWELL REVERB FURNACE

Source Capacity/Throughput:

Conditions for this source occur in the following groups: G01
G02

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

Emission limits shall not be exceeded from the exhaust of the baghouse as follows

- o Hydrogen Chloride = 1.26 lb/hr
- o Particulate Matter = 2.08 lb/hr
- o Nitrogen Oxides = 2.00 lb/hr
- o Carbon Monoxide = 1.68 lb/hr
- o Filterable PM10 = 0.01 gr/dscf

Fuel Restriction(s).**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Alumicore shall only use pipeline grade natural gas.

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

The hours of operation of this source shall not exceed six thousand (6,000) hours on a twelve (12) month rolling average basis.

II. TESTING REQUIREMENTS.**# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The owner or operator shall conduct performance testing that is in compliance with §63.7(c) and 25 Pa Code §139 that demonstrates compliance for the following emission restrictions

- o 15 µg of D/F TEQ per Mg (2.1×10^{-4} gr of D/F TEQ per ton) of feed/charge from a group 1 furnace at a secondary aluminum production facility that is a major or area source.
- o Hydrogen Chloride shall not exceed 1.26 lb/hr emission rate
- o Particulate Matter shall not exceed 2.08 lb/hr emission rate
- o Nitrogen Oxides shall not exceed 2.00 lb/hr emission rate
- o Carbon Monoxide shall not exceed 1.68 lb/hr emission rate
- o Filterable PM10 shall not exceed 0.01 gr/dscf emission rate
- o HF shall not exceed 0.4lb/ton of feed/charge

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1512]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production Performance test/compliance demonstration requirements and procedures.**

Group 1 furnace with add-on air pollution control devices.



SECTION D. Source Level Plan Approval Requirements

(1) The owner or operator of a group 1 furnace that processes scrap other than clean charge materials with emissions controlled by a lime-injected fabric filter must conduct performance tests to measure emissions of PM and D/F at the outlet of the control device and emissions of HCl at the outlet (for the emission limit) or the inlet and the outlet (for the percent reduction standard).

(2) N/A

(3) N/A

(4) The owner or operator of a sidewell group 1 furnace that conducts reactive fluxing (except for cover flux) in the hearth, or that conducts reactive fluxing in the sidewell at times when the level of molten metal falls below the top of the passage between the sidewell and the hearth, must conduct the performance tests required by paragraph (d)(1) or (d)(2) of this section, to measure emissions from both the sidewell and the hearth.

III. MONITORING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

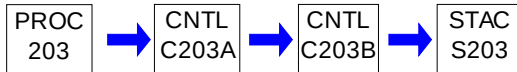
**SECTION D. Source Level Plan Approval Requirements**

Source ID: 203

Source Name: 10.4 MMBTU/HR DELACQUERING KILN

Source Capacity/Throughput:

Conditions for this source occur in the following groups: G01

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

Emission limits shall not be exceeded from the exhaust of the baghouse as follows

- o Hydrogen Chloride = 2.00 lb/hr
- o Particulate Matter = 3.22 lb/hr
- o Nitrogen Oxides = 1.04 lb/hr
- o Carbon Monoxide = 0.87 lb/hr
- o Filterable PM10 = 0.01 gr/dscf

002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1505]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production
Emission standards for affected sources and emission units.**

The owner or operator of a scrap dryer/delacquering kiln/decoating kiln must not discharge or cause to be discharged to the atmosphere emissions in excess of: 0.25 µg of D/F TEQ per Mg (3.5 × 10⁻⁶ gr of D/F TEQ per ton) of feed/charge from a scrap dryer/delacquering kiln/decoating kiln at a secondary aluminum production facility that is a major or area source.

003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1506]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production
Operating requirements.**

Scrap dryer/delacquering kiln/decoating kiln. The owner or operator of a scrap dryer/delacquering kiln/decoating kiln with emissions controlled by an afterburner and a lime-injected fabric filter must:

- (1) For each afterburner,
 - (i) Maintain the 3-hour block average operating temperature of each afterburner at or above the average temperature established during the performance test.
 - (ii) Operate each afterburner in accordance with the OM&M plan.
- (2) If a bag leak detection system is used to meet the fabric filter monitoring requirements in § 63.1510,
 - (i) Initiate corrective action within 1-hour of a bag leak detection system alarm and complete any necessary corrective action procedures in accordance with the OM&M plan.
 - (ii) Operate each fabric filter system such that the bag leak detection system alarm does not sound more than 5 percent of the operating time during a 6-month block reporting period. In calculating this operating time fraction, if inspection of the fabric filter demonstrates that no corrective action is required, no alarm time is counted. If corrective action is required, each alarm shall be counted as a minimum of 1 hour. If the owner or operator takes longer than 1 hour to initiate corrective action, the alarm time shall be counted as the actual amount of time taken by the owner or operator to initiate corrective action.
- (3) N/A
- (4) Maintain the 3-hour block average inlet temperature for each fabric filter at or below the average temperature established during the performance test, plus 14 °C (plus 25 °F).
- (5) For a continuous injection device, maintain free-flowing lime in the hopper to the feed device at all times and maintain the lime feeder setting at or above the level established during the performance test.

**SECTION D. Source Level Plan Approval Requirements****Fuel Restriction(s).**

004 [25 Pa. Code §127.12b]
Plan approval terms and conditions.

Alumicore shall only use pipeline grade natural gas.

Operation Hours Restriction(s).

005 [25 Pa. Code §127.12b]
Plan approval terms and conditions.

The hours of operation of this source shall not exceed six thousand (6,000) hours on a twelve (12) month rolling average basis.

II. TESTING REQUIREMENTS.

006 [25 Pa. Code §127.12b]
Plan approval terms and conditions.

The owner or operator shall conduct performance testing that is in compliance with §63.7(c) and 25 Pa Code §139 that demonstrates compliance for the following emission restrictions

- o 0.25 µg of D/F TEQ per Mg (3.5×10^{-6} gr of D/F TEQ per ton) of feed/charge from a scrap dryer/delacquering kiln/decoating kiln at a secondary aluminum production facility that is a major or area source
- o Hydrogen Chloride shall not exceed 2.00 lb/hr emission rate
- o Particulate Matter shall not exceed 3.22 lb/hr emission rate
- o Nitrogen Oxides shall not exceed 1.04 lb/hr emission rate
- o Carbon Monoxide shall not exceed 0.87 lb/hr emission rate
- o Filterable PM₁₀ shall not exceed 0.01 gr/dscf emission rate

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1512]
Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production
Performance test/compliance demonstration requirements and procedures.

Scrap dryer/delacquering kiln/decoating kiln. The owner or operator must conduct performance tests to measure emissions of THC, D/F, HCl, and PM at the outlet of the control device.

(1) If the scrap dryer/delacquering kiln/decoating kiln is subject to the alternative emission limits in § 63.1505(e), the average afterburner operating temperature in each 3-hour block period must be maintained at or above 760 °C (1400 °F) for the test.

(2) The owner or operator of a scrap dryer/delacquering kiln/decoating kiln subject to the alternative limits in § 63.1505(e) must submit a written certification in the notification of compliance status report containing the information required by § 63.1515(b)(7).

III. MONITORING REQUIREMENTS.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1510]
Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production
Monitoring requirements.

Afterburner Operating Temperatures
Continuous measurement device to meet specifications in §63.1510(g)(1); record temperature for each 15-minute block; determine and record 3-hr block averages.

Afterburner Operation
Annual inspection of afterburner internal parts; complete repairs in accordance with the OM&M plan.

Bag Leak Detector
Install and operate in accordance with manufacturer's operating instructions.

Lime Injection Rate
For continuous injection systems, inspect each feed hopper or silo every 8 hours to verify that lime is free flowing; record results of each inspection. If blockage occurs, inspect every 4 hours for 3 days; return to 8-hour inspections if corrective action results in no further blockage during 3-day period, record feeder setting daily. Verify monthly that lime injection rate is no less than 90 percent of the rate used during the compliance demonstration test.

**SECTION D. Source Level Plan Approval Requirements****Fabric Filter Inlet Temperature**

Continuous measurement device to meet specifications in § 63.1510(h)(2); record temperatures in 15-minute block averages; determine and record 3-hr block averages.

IV. RECORDKEEPING REQUIREMENTS.

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

VI. WORK PRACTICE REQUIREMENTS.

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

VII. ADDITIONAL REQUIREMENTS.

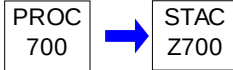
No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 700

Source Name: FUGITIVES

Source Capacity/Throughput:

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VII. ADDITIONAL REQUIREMENTS.

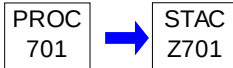
No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 701

Source Name: ROADWAYS

Source Capacity/Throughput:

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

A set vehicle pattern shall be established and maintained for vehicles entering and exiting the facility.

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

The owner or operator shall post a sign limiting speeds to less than 15 mph on all in-plant roads.

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

Speed limit signs shall be posted consistent with the requirements of the Pennsylvania Department of Transportation (overall dimensions 20 inches x 24 inches, "SPEED LIMIT" in 4-inch letters and 10-inch numerals).

004 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The owner or operator shall promptly remove earth or other materials from paved roads onto which earth or other materials has been transported by truck or earth moving equipment or by other means.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION E. Source Group Plan Approval Restrictions.**

Group Name: G01

Group Description: All Combustion Sources

Sources included in this group

ID	Name
201	20 MMBTU/HR ROTARY MELTING FURNACE
202	20 MMBTU/HR SIDEWELL REVERB FURNACE
203	10.4 MMBTU/HR DELACQUERING KILN

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

A person may not permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from a combustion unit in excess of the rate of 4 pounds per million Btu of heat input over a 1-hour period, except as provided in paragraph (4).

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

A person may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emissions is equal to or greater than 10% at any time.

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

No fugitive air contaminant emissions shall be generated as a result of removing collected dust from the fabric collector (baghouse) or cartridge collector or as a result of subsequent handling the dust on-site following the removal from the collector.

004 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Each baghouse shall be equipped with instrumentation to monitor the differential pressure across the collector on a continuous basis.

005 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall keep on hand a sufficient quantity of spare bags in order to immediately replace any bags requiring replacement due to deterioration resulting from routine operation.

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

The permittee shall install, operate, and maintain the baghouse(s) in accordance with manufacturer's operation recommendations and/or maintenance specifications, if available.

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

The permittee shall operate and maintain burners in accordance with good combustion practices and/or manufacturer's recommendations, if available.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1506]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production Operating requirements.**

Capture/collection systems. For each affected source or emission unit equipped with an add-on air pollution control device, the owner or operator must:

(1) Design and install a system for the capture and collection of emissions to meet the engineering standards for minimum exhaust rates or facial inlet velocities as contained in the ACGIH Guidelines (incorporated by reference, see § 63.14);

**SECTION E. Source Group Plan Approval Restrictions.**

(2) Vent captured emissions through a closed system, except that dilution air may be added to emission streams for the purpose of controlling temperature at the inlet to a fabric filter; and

(3) Operate each capture/collection system according to the procedures and requirements in the OM&M plan.

(4) N/A

(i) N/A

(ii) N/A

(A) N/A

(B) N/A

(C) N/A

(D) N/A

(E) N/A

(iii) N/A

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1506]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production Operating requirements.**

Feed/charge weight. The owner or operator of each affected source or emission unit subject to an emission limit in kg/Mg (lb/ton) or µg/Mg (gr/ton) of feed/charge must:

(1) Except as provided in paragraph (d)(3) of this section, install and operate a device that measures and records or otherwise determine the weight of feed/charge (or throughput) for each operating cycle or time period used in the performance test; and

(2) Operate each weight measurement system or other weight determination procedure in accordance with the OM&M plan.

(3) The owner or operator may chose to measure and record aluminum production weight from an affected source or emission unit rather than feed/charge weight to an affected source or emission unit, provided that:

(i) The aluminum production weight, rather than feed/charge weight is measured and recorded for all emission units within a SAPU; and

(ii) All calculations to demonstrate compliance with the emission limits for SAPUs are based on aluminum production weight rather than feed/charge weight.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1506]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production Operating requirements.**

Corrective action. 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 practicable in accordance with good air 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.

**SECTION E. Source Group Plan Approval Restrictions.****II. TESTING REQUIREMENTS.****# 011 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

If at any time the Department has cause to believe that air contaminant emissions from the aforementioned source(s) may be in excess of the limitations specified in, or established pursuant to, any applicable rule or regulation contained in Article III of the Rules and Regulations of the Department of Environmental Protection, the company shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s). Such test shall be conducted in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection, where applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notified the company that testing is required.

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1511]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production Performance test/compliance demonstration general requirements.**

Site-specific test plan. Prior to conducting any performance test required by this subpart, the owner or operator must prepare a site-specific test plan which satisfies all of the rule requirements, and must obtain approval of the plan pursuant to the procedures set forth in § 63.7. Performance tests shall be conducted under such conditions as the Administrator specifies to the owner or operator based on representative performance of the affected source for the period being tested. Upon request, the owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests.

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1511]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production Performance test/compliance demonstration general requirements.**

(b) Initial performance test. Following approval of the site-specific test plan, the owner or operator must demonstrate initial compliance with each applicable emission, equipment, work practice, or operational standard for each affected source and emission unit, and report the results in the notification of compliance status report as described in § 63.1515(b). The owner or operator of any affected source constructed before February 14, 2012, for which an initial performance test is required to demonstrate compliance must conduct this initial performance test no later than the date for compliance established by § 63.1501. The owner or operator of any affected source constructed or reconstructed after February 14, 2012, for which an initial performance test is required must conduct this initial performance test within 180 days after the date for compliance established by § 63.1501. Except for the date by which the performance test must be conducted, the owner or operator must conduct each performance test in accordance with the requirements and procedures set forth in § 63.7(c). Owners or operators of affected sources located at facilities which are area sources are subject only to those performance testing requirements pertaining to D/F. Owners or operators of sweat furnaces meeting the specifications of § 63.1505(f)(1) are not required to conduct a performance test.

(1) The performance tests must be conducted under representative conditions expected to produce the highest level of HAP emissions expressed in the units of the emission standards for the HAP (considering the extent of feed/charge contamination, reactive flux addition rate and feed/charge rate). If a single test condition is not expected to produce the highest level of emissions for all HAP, testing under two or more sets of conditions (for example high contamination at low feed/charge rate, and low contamination at high feed/charge rate) may be required. Any subsequent performance tests for the purposes of establishing new or revised parametric limits shall be allowed upon pre-approval from the permitting authority for major sources, or the Administrator for area sources. These new parametric settings shall be used to demonstrate compliance for the period being tested.

(2) Each performance test for a continuous process must consist of 3 separate runs; pollutant sampling for each run must be conducted for the time period specified in the applicable method or, in the absence of a specific time period in the test method, for a minimum of 3 hours.

(3) Each performance test for a batch process must consist of three separate runs; pollutant sampling for each run must be conducted over the entire process operating cycle. Additionally, for batch processes where the length of the process operating cycle is not known in advance, and where isokinetic sampling must be conducted based on the procedures in Method 5 in appendix A to part 60, use the following procedure to ensure that sampling is conducted over the entire process operating cycle:

(i) Choose a minimum operating cycle length and begin sampling assuming this minimum length will be the run time (e.g., if the process operating cycle is known to last from four to six hours, then assume a sampling time of four hours and divide the sampling time evenly between the required number of traverse points);

(ii) After each traverse point has been sampled once, begin sampling each point again for the same time per point, in the reverse order, until the operating cycle is complete. All traverse points as required by Method 1 of appendix A to part 60, must be sampled at least once during each test run;

**SECTION E. Source Group Plan Approval Restrictions.**

- (iii) In order to distribute the sampling time most evenly over all the traverse points, do not perform all runs using the same sampling point order (e.g., if there are four ports and sampling for run 1 began in port 1, then sampling for run 2 could begin in port 4 and continue in reverse order.)
- (4) Where multiple affected sources or emission units are exhausted through a common stack, pollutant sampling for each run must be conducted over a period of time during which all affected sources or emission units complete at least 1 entire process operating cycle or for 24 hours, whichever is shorter.
- (5) Initial compliance with an applicable emission limit or standard is demonstrated if the average of three runs conducted during the performance test is less than or equal to the applicable emission limit or standard
- (6) Apply paragraphs (b)(1) through (5) of this section for each pollutant separately if a different production rate, charge material or, if applicable, reactive fluxing rate would apply and thereby result in a higher expected emissions rate for that pollutant.
- (7) The owner or operator may not conduct performance tests during periods of malfunction.

III. MONITORING REQUIREMENTS.**# 014 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall operate and maintain burners in accordance with good combustion practices and manufacturer's specifications.

015 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Except during the first year, the owner or operator shall conduct a burner tuning procedure in accordance with the manufacturer's specifications to minimize NO_x and CO emissions each year thereafter.

016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1506]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production Operating requirements.**

Labeling. The owner or operator must provide and maintain easily visible labels posted at each group 1 furnace, group 2 furnace, in-line fluxer and scrap dryer/delacquering kiln that identifies the applicable emission limits and means of compliance, including:

- (1) The type of affected source or emission unit (e.g., scrap dryer/delacquering kiln/decoating kiln, group 1 furnace, group 2 furnace, in-line fluxer).
- (2) The applicable operational standard(s) and control method(s) (work practice or control device). This includes, but is not limited to, the type of charge to be used for a furnace (e.g., clean scrap only, all scrap, etc.), flux materials and addition practices, and the applicable operating parameter ranges and requirements as incorporated in the OM&M plan.
- (3) The afterburner operating temperature and design residence time for a scrap dryer/delacquering kiln/decoating kiln.

017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1510]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production Monitoring requirements.**

Emission Capture and Collection System

Annual inspection of all emission capture, collection, and transportation systems continue to operate in accordance with ACGIH Guidelines. Inspection includes volumetric flow rate measurements or verification of a permanent total enclosure using EPA Method 204.

Feed/Charge Weight

Record weight of each feed/charge, weight measurement device or other procedure accuracy of +/-1%, calibrate according to manufacturer's specifications, or at least every 6 months.

Labeling

Check monthly to confirm that labels are intact and legible.

018 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1510]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production Monitoring requirements.**

**SECTION E. Source Group Plan Approval Restrictions.**

Operation, maintenance, and monitoring (OM&M) plan. The owner or operator must prepare and implement for each new or existing affected source and emission unit, a written OM&M plan. The owner or operator of an existing affected source must submit the OM&M plan to the permitting authority for major sources, or the Administrator for area sources no later than the compliance date established by § 63.1501. The owner or operator of any new affected source must submit the OM&M plan to the permitting authority for major sources, or the Administrator for area sources within 90 days after a successful initial performance test under § 63.1511(b), or within 90 days after the compliance date established by § 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 this section and is otherwise consistent with the requirements of this subpart. The owner or operator must comply with all of the provisions of the OM&M plan as submitted to the permitting authority for major sources, or the Administrator for area sources, unless and until the plan is revised in accordance with the following procedures. If the permitting authority for major sources, or the Administrator for area sources determines at any time after receipt of the OM&M plan that any revisions of the plan are necessary to satisfy the requirements of this section or this subpart, 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 for major sources, or the Administrator for area sources. Each plan must contain the following information:

- (1) 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.
- (2) A monitoring schedule for each affected source and emission unit.
- (3) 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 § 63.1505.
- (4) Procedures for the proper operation and maintenance of monitoring devices or systems used to determine compliance, including:
 - (i) Calibration and certification of accuracy of each monitoring device, at least once every 6 months, according to the manufacturer's instructions; and
 - (ii) 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 this part.
- (5) Procedures for monitoring process and control device parameters, including lime injection rates, 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.
- (6) 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 this section, including:
 - (i) Procedures to determine and record the cause of any deviation or excursion, and the time the deviation or excursion began and ended; and
 - (ii) Procedures for recording the corrective action taken, the time corrective action was initiated, and the time/date corrective action was completed.
- (7) 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.
- (8) Documentation of the work practice and pollution prevention measures used to achieve compliance with the applicable emission limits and a site-specific monitoring plan as required in paragraph (o) of this section for each group 1 furnace not equipped with an add-on air pollution control device.
- (9) Procedures to be followed when changing furnace classifications under the provisions of § 63.1514.

019 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1510]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production Monitoring requirements.**

Site-specific requirements for secondary aluminum processing units.

- (1) An owner or operator of a secondary aluminum processing unit at a facility must include, within the OM&M plan prepared in accordance with § 63.1510(b), the following information:
 - (i) The identification of each emission unit in the secondary aluminum processing unit;
 - (ii) The specific control technology or pollution prevention measure to be used for each emission unit in the secondary aluminum processing unit and the date of its installation or application;
 - (iii) The emission limit calculated for each secondary aluminum processing unit and performance test results with supporting calculations demonstrating initial compliance with each applicable emission limit;
 - (iv) Information and data demonstrating compliance for each emission unit with all applicable design, equipment, work

**SECTION E. Source Group Plan Approval Restrictions.**

practice or operational standards of this subpart; and

(v) The monitoring requirements applicable to each emission unit in a secondary aluminum processing unit and the monitoring procedures for daily calculation of the 3-day, 24-hour rolling average using the procedure in § 63.1510(t).

(2) The SAPU compliance procedures within the OM&M plan may not contain any of the following provisions:

(i) Any averaging among emissions of differing pollutants;

(ii) The inclusion of any affected sources other than emission units in a secondary aluminum processing unit;

(iii) The inclusion of any emission unit while it is shutdown; or

(iv) The inclusion of any periods of startup or shutdown in emission calculations.

(3) To revise the SAPU compliance provisions within the OM&M plan prior to the end of the permit term, the owner or operator must submit a request to the permitting authority for major sources, or the Administrator for area sources containing the information required by paragraph (s)(1) of this section and obtain approval of the permitting authority for major sources, or the Administrator for area sources prior to implementing any revisions.

020 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1510]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production Monitoring requirements.**

Multiply the total feed/charge weight to the emission unit, or the weight of aluminum produced by the emission unit, for each emission unit for the 24-hour period by the emission rate (in lb/ton of feed/charge) for that emission unit (as determined during the performance test) to provide emissions for each emission unit for the 24-hour period, in pounds.

(i) Where no performance test has been conducted, for a particular emission unit, because the owner or operator has, with the approval of the permitting authority for major sources, or the Administrator for area sources, chosen to determine the emission rate of an emission unit by testing a representative unit, in accordance with § 63.1511(f), the owner or operator shall use the emission rate determined from the representative unit in the SAPU emission rate calculation required in § 63.1510(t)(4).

(ii) Except as provided in paragraph (t)(2)(iii) of this section, if the owner or operator has not conducted performance tests for HCl (and HF for an uncontrolled group 1 furnace) or for HCl for an in-line fluxer, in accordance with the provisions of § 63.1512(d)(3), (e)(3), or (h)(2), the calculation required in § 63.1510(t)(4) to determine SAPU-wide HCl and HF emissions shall be made under the assumption that all chlorine contained in reactive flux added to the emission unit is emitted as HCl and all fluorine contained in reactive flux added to the emission unit is emitted as HF.

(iii) Prior to the date by which the initial performance test for HF emissions from uncontrolled group 1 furnaces is conducted, or is required to be conducted, the calculation required in § 63.1505(k) to determine the SAPU-wide HF emission limit and the calculation required in § 63.1510(t)(4) to determine the SAPU-wide HF emission rate must exclude HF emissions from untested uncontrolled group 1 furnaces and feed/charge processed in untested uncontrolled group 1 furnaces.

(3) Divide the total emissions for each SAPU for the 24-hour period by the total material charged to the SAPU, or the weight of aluminum produced by the SAPU over the 24-hour period to provide the daily emission rate for the SAPU.

(4) Compute the 24-hour daily emission rate using Equation 4: $E_{day} = S (T_i \times E_{Ri}) / S T_i$

Where:

E_{day} = The daily PM, HCl, and D/F (and HF for uncontrolled group 1 furnaces) emission rate for the secondary aluminum processing unit for the 24-hour period;

T_i = The total amount of feed, or aluminum produced, for emission unit i for the 24-hour period (tons or Mg);

E_{Ri} = The measured emission rate for emission unit i as determined in the performance test (lb/ton or $\mu\text{g}/\text{Mg}$ of feed/charge); and

n = The number of emission units in the secondary aluminum processing unit.

(5) Calculate and record the 3-day, 24-hour rolling average for each pollutant each day by summing the daily emission rates for each pollutant over the 3 most recent consecutive days and dividing by 3. The SAPU is in compliance with an applicable emission limit if the 3-day, 24-hour rolling average for each pollutant is no greater than the applicable SAPU emission limit determined in accordance with § 63.1505(k)(1)-(3).

021 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1511]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production Performance test/compliance demonstration general requirements.**

Establishment of monitoring and operating parameter values. The owner or operator of new or existing affected sources and emission units must establish a minimum or maximum operating parameter value, or an operating parameter range for each parameter to be monitored as required by § 63.1510 that ensures compliance with the applicable emission limit or

**SECTION E. Source Group Plan Approval Restrictions.**

standard. To establish the minimum or maximum value or range, the owner or operator must use the appropriate procedures in this section and submit the information required by § 63.1515(b)(4) in the notification of compliance status report. The owner or operator may use existing data in addition to the results of performance tests to establish operating parameter values for compliance monitoring provided each of the following conditions are met to the satisfaction of the permitting authority for major sources, or the Administrator for area sources:

- (1) The complete emission test report(s) used as the basis of the parameter(s) is submitted.
- (2) The same test methods and procedures as required by this subpart were used in the test.
- (3) The owner or operator certifies that no design or work practice changes have been made to the source, process, or emission control equipment since the time of the report.
- (4) All process and control equipment operating parameters required to be monitored were monitored as required in this subpart and documented in the test report.
- (5) If the owner or operator wants to conduct a new performance test and establish different operating parameter values, they must submit a revised site specific test plan and receive approval in accordance with paragraph (a) of this section. In addition, if an owner or operator wants to use existing data in addition to the results of the new performance test to establish operating parameter values, they must meet the requirements in paragraphs (g)(1) through (4) of this section.

022 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1512]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production Performance test/compliance demonstration requirements and procedures.**

Secondary aluminum processing unit. The owner or operator must conduct performance tests as described in paragraphs (j)(1) through (3) of this section. The results of the performance tests are used to establish emission rates in lb/ton of feed/charge for PM, HCl and HF and µg TEQ/Mg of feed/charge for D/F emissions from each emission unit. These emission rates are used for compliance monitoring in the calculation of the 3-day, 24-hour rolling average emission rates using the equation in § 63.1510(t). A performance test is required for:

- (1) Each group 1 furnace processing only clean charge to measure emissions of PM and either:
 - (i) Emissions of HF and HCl (for determining the emission limit); or
 - (ii) The mass flow rate of HCl at the inlet to and outlet from the control device (for the percent reduction standard).
- (2) Each group 1 furnace that processes scrap other than clean charge to measure emissions of PM and D/F and either:
 - (i) Emissions of HF and HCl (for determining the emission limit); or
 - (ii) The mass flow rate of HCl at the inlet to and outlet from the control device (for the percent reduction standard).
- (3) Each in-line fluxer to measure emissions of PM and HCl.
- (k) Feed/charge weight measurement. During the emission test(s) conducted to determine compliance with emission limits in a kg/Mg (lb/ton) format, the owner or operator of an affected source or emission unit, subject to an emission limit in a kg/Mg (lb/ton) of feed/charge format, must measure (or otherwise determine) and record the total weight of feed/charge to the affected source or emission unit for each of the three test runs and calculate and record the total weight. An owner or operator that chooses to demonstrate compliance on the basis of the aluminum production weight must measure the weight of aluminum produced by the emission unit or affected source instead of the feed/charge weight.

023 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1512]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production Performance test/compliance demonstration requirements and procedures.**

Inlet gas temperature. The owner or operator of a scrap dryer/delacquering kiln/decoating kiln or a group 1 furnace using a lime-injected fabric filter must use these procedures to establish an operating parameter value or range for the inlet gas temperature.

- (1) Continuously measure and record the temperature at the inlet to the lime-injected fabric filter every 15 minutes during the HCl and D/F performance tests;
- (2) Determine and record the 15-minute block average temperatures for the 3 test runs; and
- (3) Determine and record the 3-hour block average of the recorded temperature measurements for the 3 test runs.
- (o) Flux injection rate. The owner or operator must use these procedures to establish an operating parameter value or range for the total reactive chlorine flux injection rate and, for uncontrolled furnaces, the total reactive fluorine flux injection rate.
- (1) Continuously measure and record the weight of gaseous or liquid reactive flux injected for each 15 minute period during the HCl, HF and D/F tests, determine and record the 15-minute block average weights, and calculate and record the total weight of the gaseous or liquid reactive flux for the 3 test runs;

**SECTION E. Source Group Plan Approval Restrictions.**

(2) Record the identity, composition, and total weight of each addition of solid reactive flux for the 3 test runs;
(3) Determine the total reactive chlorine flux injection rate and, for uncontrolled furnaces, the total reactive fluorine flux injection rate by adding the recorded measurement of the total weight of chlorine and, for uncontrolled furnaces, fluorine in the gaseous or liquid reactive flux injected and the total weight of chlorine and, for uncontrolled furnaces, fluorine in the solid reactive flux using Equation 5: $Wt = F1W1 + F2W2$

Where:

Wt = Total chlorine or fluorine usage, by weight;

F1 = Fraction of gaseous or liquid flux that is chlorine or fluorine;

W1 = Weight of reactive flux gas injected;

F2 = Fraction of solid reactive chloride flux that is chlorine (e.g., $F = 0.75$ for magnesium chloride) or fraction of solid reactive fluoride flux that is fluorine (e.g., $F = 0.33$ for potassium fluoride); and

W2 = Weight of solid reactive flux;

(4) Divide the weight of total chlorine or fluorine usage (Wt) for the 3 test runs by the recorded measurement of the total weight of feed for the 3 test runs; and

(5) If a solid reactive flux other than magnesium chloride or potassium fluoride is used, the owner or operator must derive the appropriate proportion factor subject to approval by the permitting authority for major sources, or the Administrator for area sources.

(p) Lime injection. The owner or operator of an affected source or emission unit using a lime-injected fabric filter system must use these procedures during the HCl and D/F tests to establish an operating parameter value for the feeder setting for each operating cycle or time period used in the performance test.

(1) For continuous lime injection systems, ensure that lime in the feed hopper or silo is free-flowing at all times; and

(2) Record the feeder setting and lime injection rate for the 3 test runs. If the feed rate setting and lime injection rates vary between the runs, determine and record the average feed rate and lime injection rate from the 3 runs.

(q) Bag leak detection system. The owner or operator of an affected source or emission unit using a bag leak detection system must submit the information described in § 63.1515(b)(6) as part of the notification of compliance status report to document conformance with the specifications and requirements in § 63.1510(f).

(r) Labeling. The owner or operator of each scrap dryer/delacquering kiln/decoating kiln, group 1 furnace, group 2 furnace and in-line fluxer must submit the information described in § 63.1515(b)(3) as part of the notification of compliance status report to document conformance with the operational standard in § 63.1506(b).

(s) Capture/collection system. The owner or operator of a new or existing affected source or emission unit with an add-on control device must submit the information described in § 63.1515(b)(2) as part of the notification of compliance status report to document conformance with the operational standard in § 63.1506(c).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION E. Source Group Plan Approval Restrictions.**

Group Name: G02

Group Description: All Furnaces

Sources included in this group

ID	Name
201	20 MMBTU/HR ROTARY MELTING FURNACE
202	20 MMBTU/HR SIDEWELL REVERB FURNACE

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

Emission shall not exceed 0.4lb of HF per ton of feed/charge.

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

If dross flux AMLOX-720 manufactured by American Metal Chemical Corporation changes in chemical composition or a different grade is used for production, Alumicore shall conduct an evaluation to determine if any HAP or criteria pollutant emission could increase as a result of the change. In the event that Alumicore determines that there could be a potential HAP or criteria pollutant emission increase during the evaluation, Alumicore shall notify the Department in writing of the potential increase in emissions within 30 days of the change.

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

If scrap flux A-575-2 manufactured by American Metal Chemical Corporation changes in chemical composition or a different grade is used for production, Alumicore shall conduct an evaluation to determine if any HAP or criteria pollutant emission could increase as a result of the change. In the event that Alumicore determines that there could be a potential HAP or criteria pollutant emission increase during the evaluation, Alumicore shall notify the Department in writing of the potential increase in emissions within 30 days of the change.

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1505]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production
Emission standards for affected sources and emission units.**

15 µg of D/F TEQ per Mg (2.1×10^{-4} gr of D/F TEQ per ton) of feed/charge from a group 1 furnace at a secondary aluminum production facility that is a major or area source. This limit does not apply if the furnace processes only clean charge

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1506]**Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production
Operating requirements.**

The owner or operator of a group 1 furnace with emissions controlled by a lime injected fabric filter must:

- (1) If a bag leak detection system is used to meet the monitoring requirements in §63.1510, the furnace with emissions controlled by a lime-injected fabric filter must:
 - (i) Initiate corrective action within 1 hour of a bag leak detection system alarm
 - (ii) Complete the corrective action procedures in accordance with the OM&M plan.
 - (iii) Operate each fabric filter system such that the bag leak detection system alarm does not sound more than 5 percent of the operating time during a 6-month block reporting period. In calculating this operating time fraction, if inspection of the fabric filter demonstrates that no corrective action is required, no alarm time is counted. If corrective action is required, each alarm shall be counted as a minimum of 1 hour. If the owner or operator takes longer than 1 hour to initiate corrective action, the alarm time shall be counted as the actual amount of time taken by the owner or operator to initiate corrective action
- (2) NA
- (3) Maintain the 3-hour block average inlet temperature for each fabric filter at or below the average temperature established during the performance test, plus 14 °C (plus 25 °F).
- (4) For a continuous lime injection system, maintain free-flowing lime in the hopper to the feed device at all times and maintain the lime feeder setting at or above the level established during the performance test.
- (5) Maintain the total reactive chlorine flux injection rate for each operating cycle or time period used in the performance test at or below the average rate established during the performance test



SECTION E. Source Group Plan Approval Restrictions.

(6) Operate each sidewell furnace such that:

(i) The level of molten metal remains above the top of the passage between the sidewell and hearth during reactive flux injection, unless emissions from both the sidewell and the hearth are included in demonstrating compliance with all applicable emission limits.

(ii) Reactive flux is added only in the sidewell, unless emissions from both the sidewell and the hearth are included in demonstrating compliance with all applicable emission limits.

(7) The operation of capture/collection systems and control devices associated with natural gas-fired, propane-fired or electrically heated group 1 furnaces that will be idled for at least 24 hours after the furnace cycle has been completed may be temporarily stopped. Operation of these capture/collection systems and control devices must be restarted before feed/charge, flux or alloying materials are added to the furnace.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.1510]

Subpart RRR -- National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production Monitoring requirements.

Bag leak Detector

Install and operate in accordance with manufacturer's operating instructions.

Lime Injection Rate

For continuous injection systems, record feeder setting daily and inspect each feed hopper or silo every 8 hours to verify that lime is free-flowing; record results of each inspection. If blockage occurs, inspect every 4 hours for 3 days; return to 8-hour inspections if corrective action results in no further blockage during 3-day periodic. Verify monthly that the lime injection rate is no less than 90 percent of the rate used during the compliance demonstration test.

Reactive Flux Injection Rate

Weight measurement device accuracy of $\pm 1\%$; b calibrate every 3 months; record weight and type of reactive flux added or injected for each 15-minute block period while reactive fluxing occurs; calculate and record total reactive chlorine flux injection rate and the total reactive fluorine flux injection rate for each operating cycle or time period used in performance test; or Alternative flux injection rate determination procedure per § 63.1510(j)(5). For solid flux added intermittently, record the amount added for each operating cycle or time period used in the performance test.

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Plan Approval facility.

**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.



SECTION H. Miscellaneous.



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