



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: January 9, 2026

Effective Date: January 9, 2026

Expiration Date: July 3, 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. 45-00038B

Federal Tax Id - Plant Code: 22-0119327-1

Owner Information

Name: ELECTRUM INC
Mailing Address: 146 AIRPORT ROAD
EAST STROUDSBURG, PA 18301-8193

Plant Information

Plant: ELECTRUM INC/SMITHFIELD TWP
Location: 45 Monroe County 45917 Smithfield Township
SIC Code: 3341 Manufacturing - Secondary Nonferrous Metals

Responsible Official

Name: MATHEW E DOUGLAS
Title: PRESIDENT
Phone: (800) 622 - 1192 Email:

Plan Approval Contact Person

Name: JOHN E SILVA
Title: CFO
Phone: (800) 622 - 1192 Email: j.e.silva@electruminc.com

[Signature] _____
MARK J. WEJKSZNER, NORTHEAST REGION AIR PROGRAM MANAGER



Plan Approval Description

This plan approval is for the installation and operation of a metal recycling and recovery operation which includes:

One (1) pot furnace (ID 101) heated indirectly by a natural gas-fired 0.89 MMBtu/hr burner. Emissions from the pot furnace are controlled by one (1) natural gas-fired afterburner (C101-A) with a heat input capacity of 1.0 MMBtu/hr and one (1) packed tower wet scrubber (C101-B)

One (1) incinerator fueled by a propane fired burner (1.0 MMBtu/hr) (ID 102).

Combustion emissions from the incinerator are exhausted to a propane fired secondary combustion chamber with a total heat input capacity of 4.5 MMBtu/hr (Control Device C102-A) to provide a primary stage of emissions control. The incinerator and secondary combustion chamber emissions are then controlled by a baghouse fabric filter (C102-B) and a packed-tower wet scrubber (C102-C).

One electric induction melter (ID 103) powered by a 300 kilowatt (kW) heater. Emissions from the induction melter are exhausted to a baghouse with fabric filter (C103). The incinerator and the control devices are equipped with continuous parameter monitoring systems (CPMS) to monitor the operation of the individual units.



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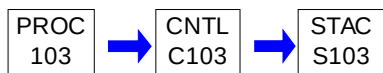
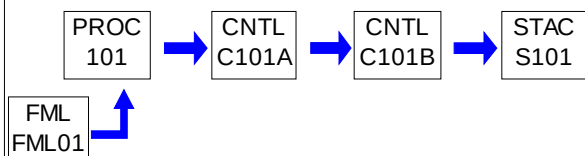
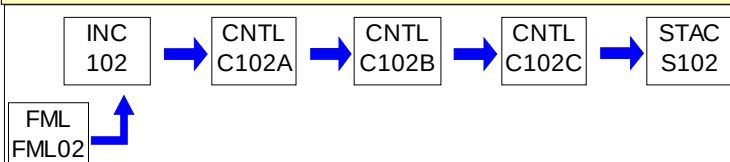
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**SECTION A. Plan Approval Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
102	INCINERATOR	500.000 Lbs/HR	MEDICAL DEVICE SCRAP
101	POT FURNACE	1,111.000 Lbs/HR	SOLDER AND SOLDER DR
103	INDUCTION MELTER	1,519.000 Lbs/HR	COPPER /PRECIOUS META
C101A	AFTERBURNER		
C101B	PACKED-TOWER WET SCRUBBER		
C102A	AFTERBURNER		
C102B	BAGHOUSE		
C102C	WET SCRUBBER		
C103	BAGHOUSE		
FML01	NATURAL GAS		
FML02	PROPANE (LPG)		
S101	STACK- ID 101		
S102	STACK_ID 102		
S103	STACK- ID 103		

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 §123.1]****Prohibition of certain fugitive emissions**

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

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

002 [25 Pa. Code §123.2]**Fugitive particulate matter**

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

003 [25 Pa. Code §123.31]**Limitations**

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

004 [25 Pa. Code §129.14]**Open burning operations**

(a) The permittee shall not allow the open burning of material on the permittee's property except when the open burning operations result from:

- (1) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
- (2) A fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (3) A fire set for the prevention and control of disease or pests, when approved by the Department.
- (4) A fire set solely for recreational or ceremonial purposes.
- (5) A fire set solely for cooking food.

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

**SECTION C. Site Level Plan Approval Requirements****II. TESTING REQUIREMENTS.****# 005 [25 Pa. Code §139.1]****Sampling facilities.**

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

006 [25 Pa. Code §139.11]**General requirements.**

The following are applicable to source tests for determining emissions from stationary sources:

- (1) Performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.
- (2) The Department will consider for approval where sufficient information is provided to verify the source conditions existing at the time of the test and where adequate data is available to show the manner in which the test was conducted. Information submitted to the Department shall include, as a minimum all of the following:
 - (i) A thorough source description, including a description of any air cleaning devices and the flue.
 - (ii) Process conditions, for example, the charging rate of raw material or rate of production of final product, boiler pressure, oven temperature, and other conditions which may affect emissions from the process.
 - (iii) The location of the sampling ports.
 - (iv) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage CO, CO₂, O₂ and N₂), static and barometric pressures.
 - (v) Sample collection techniques employed, including procedures used, equipment descriptions and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met.
 - (vi) Laboratory procedures and results.
 - (vii) Calculated results.

III. MONITORING REQUIREMENTS.**# 007 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

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

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.**# 008 [25 Pa. Code §127.442]****Reporting requirements.**

The permittee shall report malfunctions to the Department. As defined in 40 CFR Section 60.2 and incorporated by reference in 25 Pa. Code Chapter 122, a malfunction is any sudden, infrequent and not reasonably preventable failure of air

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

pollution control equipment, process equipment, or a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. Malfunctions shall be reported as follows:

(a) Any malfunction which poses an imminent danger to the public health, safety, welfare and environment, shall be immediately reported to the Department by telephone. The telephone report of such malfunctions shall occur no later than two hours after the incident. The permittee shall submit a written report of instances of such malfunctions to the Department within three (3) days of the telephone report.

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

(c) Telephone reports can be made to the Air Quality Program at (570) 826-2511 during normal business hours or at any time.

VI. WORK PRACTICE REQUIREMENTS.**# 009 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

The permittee shall take all reasonable actions to prevent particulate matter from the sources identified in Section C, Condition #001(a)(1) through (a)(7) from becoming airborne. The actions shall include, but are not limited to, the following:

(1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads or the clearing of land.

(2) Application of asphalt, oil, water or suitable chemicals on dirt roads, materials 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.

010 [25 Pa. Code §127.444]**Compliance requirements.**

The permittee shall operate and maintain the emission sources and air cleaning devices referenced in this permit in accordance with the manufacturer's general recommendations and good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.**# 011 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The facilitywide PTE emissions for the facility are the following:

1. PM/PM10/PM2.5- 6.47 TPY
2. NOx - 11.60 TPY
3. SO2 - 7.17 TPY
4. CO - 3.61 TPY
5. VOC's- 1.47 TPY
6. HAP's - 3.98 TPY
7. HCl - 3.74 TPY
8. Lead - 0.23 TPY

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.

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

No compliance milestones exist.

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

Source ID: 102

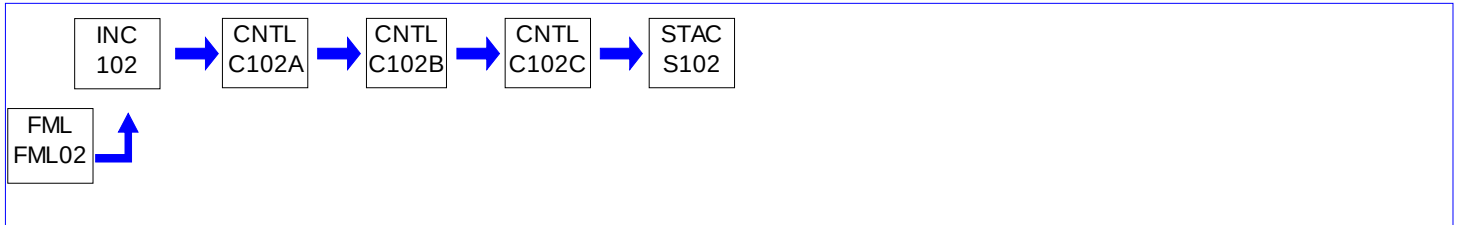
Source Name: INCINERATOR

Source Capacity/Throughput:

500.000 Lbs/HR

MEDICAL DEVICE SCRAP

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

**I. RESTRICTIONS.**

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).

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) and/or Section E (Source Group Restrictions).

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: 101

Source Name: POT FURNACE

Source Capacity/Throughput: 1,111.000 Lbs/HR

SOLDER AND SOLDER DROSS

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

**I. RESTRICTIONS.**

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).

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) and/or Section E (Source Group Restrictions).

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**

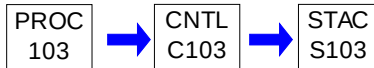
Source ID: 103

Source Name: INDUCTION MELTER

Source Capacity/Throughput: 1,519.000 Lbs/HR

COPPER /PRECIOUS METALS

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

**I. RESTRICTIONS.**

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).

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) and/or Section E (Source Group Restrictions).

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 E. Source Group Plan Approval Restrictions.**

Group Name: GROUP 1

Group Description: Pot furnace

Sources included in this group

ID	Name
101	POT FURNACE
C101A	AFTERBURNER
C101B	PACKED-TOWER WET SCRUBBER

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §123.21]****General**

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

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

Pursuant to the Best Available Technology provisions of 25 Pa. Code Sections 127.1 and 127.12, Source ID 101 shall not emit air contaminants into the outdoor atmosphere in excess of the following limitations:

- a. Lead – 0.09 pounds per hour;
- b. HCl – 0.54 pounds per hour;
- c. VOC's (as methane) – 0.07 pounds per hour;
- d. Particulate matter – 0.02 grains per dry standard cubic foot.

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

The pot furnace shall be fired by natural gas only.

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

(a) Pursuant to 25 Pa. Code § 139.3, at least 60 calendar days prior to commencing an EPA reference method testing program, a test protocol shall be submitted to the Department for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(b) Pursuant to 25 Pa. Code § 139.3, at least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the Northeast Regional Office. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

(c) Complete test reports shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an EPA reference method test program.

(d) Pursuant to 25 Pa. Code § 139.53(b) a complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or noncompliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:

- 1. A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
- 2. Permit number(s) and condition(s) which are the basis for the evaluation.
- 3. Summary of results with respect to each applicable permit condition.
- 4. Statement of compliance or non-compliance with each applicable permit condition.

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

(e) Pursuant to 25 Pa. Code § 139.3, all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

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

(g) Pursuant to 25 Pa. Code §§ 139.53(a)(1) and 139.53(a)(3), two (2) copies of all submittals, besides notifications, shall be sent to the Pennsylvania Department of Environmental Protection, Northeast Regional Office, Air Quality Program Manager, 2 Public Square, Wilkes Barre PA, 18701.

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

(a) The permittee shall perform an initial stack test using the Department-approved procedures within 60 days of achieving the maximum capacity of the source, but no longer than 180 days after initial start-up. Performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department. When testing of a source is required on a recurring basis, a single procedural protocol may be submitted for approval; thereafter, a letter referencing the previously approved procedural protocol is sufficient.

However, if modifications are made to the process(es), if a different stack testing company is used, or if an applicable section of the stack testing manual has been revised since approval, a new protocol must be submitted for approval.

(b) At least ninety (90) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

(c) The stack test shall, at a minimum, test and/or monitor for the following:

- (1) PM, using EPA Method 5 and/or 22
- (2) VOC, using EPA Method 25A
- (3) Lead (Pb), using EPA Method 29
- (4) HCl, using EPA Method 320 or 26A
- (5) Temperature of afterburner exhaust gas
- (6) pH of the scrubber solution
- (7) Flow rate of the scrubber solution
- (8) Temperature of the scrubber exhaust gas
- (9) Type and amount of material(s) processed
- (10) Batch duration and average charging rate (lb/hr)

006 [25 Pa. Code §139.1]**Sampling facilities.**

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

007 [25 Pa. Code §139.11]**General requirements.**

The following are applicable to source tests for determining emissions from stationary sources:

(1) Performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.

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

(i) A thorough source description, including a description of any air cleaning devices and the flue.

(ii) Process conditions, for example, the charging rate of raw material or rate of production of final product, boiler pressure, oven temperature, and other conditions which may affect emissions from the process.

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

(iii) The location of the sampling ports.

(iv) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage CO, CO₂, O₂ and N₂), static and barometric pressures.

(v) Sample collection techniques employed, including procedures used, equipment descriptions and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met.

(vi) Laboratory procedures and results.

(vii) Calculated results.

III. MONITORING REQUIREMENTS.**# 008 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall monitor the following operating parameters when the pot furnace (ID101) and control devices (C101A, C101B) are in operation:

- (a) Temperature of the afterburner exhaust gas continuously (at a minimum, one data point per one minute).
- (b) Temperature of the scrubber inlet gas continuously (at a minimum, one data point per one minute).
- (c) Flow rate of the scrubber solution, once per shift.
- (d) Scrubber solution pH, once per shift.

009 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall monitor and record the material throughput of the pot furnace. The permittee shall monitor the following operating parameters when source ID 101 is in operation:

- (a) The weight before and after each melting cycle (per batch).
- (b) The time at the start and end of each melting cycle.
- (c) The duration of each melting cycle.
- (d) The charge rate (charge weight divided by melting cycle time, lb/hr)
- (e) The operating hours, daily and monthly.
- (f) The type and amount of material processed, per batch, daily, and monthly.

010 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Pursuant to the Best Available Technology provisions of 25 Pa. Code Sections 127.1 and 127.12, the packed tower scrubber (C101B) shall be equipped with a functioning and properly calibrated pressure differential gauge that monitors the pressure drop across the collector and flow gauge to monitor fluid flow recirculation rate.

011 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Pursuant to the Best Available Technology provisions of 25 Pa. Code Sections 127.1 and 127.12, the oxidizer (C101A) shall be equipped with functioning and properly calibrated monitoring devices that continuously monitor the temperature of the primary and secondary combustion chambers.

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

The permittee shall record the following for the pot furnace and associated control systems, when it is in operation:

- (a) Temperature of the afterburner exhaust gas continuously, as a five-minute block average (an average of five data points for a period of five minutes).
- (b) Temperature of the scrubber exhaust gas continuously (at a minimum, one data point per five minute).
- (c) Flow rate of the scrubber solution, once per shift.

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

(d) Scrubber solution pH, once per shift.

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

Material Throughput shall be recorded for the pot furnace and shall include the following:

- (a) The time at the start and end of each melting cycle,
- (c) The duration of each melting cycle.
- (d) The charge rate (charge weight divided by melting cycle time, lb/hr)
- (e) The operating hours, daily and monthly.
- (f) The type and amount of material processed, per batch, daily, and monthly

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

The permittee shall keep emissions records for the pot furnace (ID101) for VOC's, PM, Pb, and HCL on a monthly and 12 month rolling sum basis.

The permittee may calculate the emissions based on the fuel usage, the hours of operation, the emission factors from the latest stack test results, and/or the amount/type/content of materials processed.

These records shall be kept for 5 years and retained on site.

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

All inspections and maintenance of the pot furnace and its associated control systems shall be recorded in a log book or equivalent. The record shall contain, at a minimum, the following:

- (a) The date of the inspection.
- (b) Any problems or defects.
- (c) The corrective action taken.
- (d) Any maintenance performed.

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

- (a) The permittee shall comply with the applicable reporting requirements of the Clean Air Act, the regulations thereunder, the Air Pollution Control Act and 25 Pa. Code Article III including Chapters 127, 135 and 139.
- (b) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of any air contamination source.
- (c) Reports, test data, monitoring data, notifications and requests for renewal of the permit shall be submitted to the:
Regional Air Program Manager
PA Department of Environmental Protection
2 public Square
Wilkes-Barre, PA 18701

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

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

**SECTION E. Source Group Plan Approval Restrictions.****VI. WORK PRACTICE REQUIREMENTS.****# 017 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

For the pot furnace and its associated control systems,

- (a) All exhaust flow shall be directed to its associated air pollution control system, except under the following condition: during the pot furnace startup (warm-up) period and prior to materials being charged in the pot furnace;
- (b) the permittee may operate the source only if its associated air pollution control equipment is operating properly.
- (c) the permittee shall operate and maintain the source (including during start up and shutdown periods) in accordance with manufacturer's specifications and/or facility's work practice standards, and in a manner consistent with good air pollution control practices.

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: GROUP 2

Group Description: Incinerator

Sources included in this group

ID	Name
102	INCINERATOR
C102AAFTERBURNER	
C102BBAGHOUSE	
C102CWET SCRUBBER	

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

Pursuant to the Best Available Technology provisions of 25 Pa. Code Sections 127.1 and 127.12, Source ID 102 shall not emit air contaminants into the outdoor atmosphere in excess of the following limitations:

- a. Lead – 5.67E-03 pounds per ton;
- b. HCl – 20 ppmvd at 7% O₂;
- c. VOC's (as methane) – 20 ppmvd at 7% O₂;
- d. Hg - 7.48E-03 pounds per ton
- d. Particulate matter – 0.02 grains per dry standard cubic foot.

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

The incinerator shall be fired by propane (LPG) gas only.

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

- (a) Pursuant to 25 Pa. Code § 139.3, at least 60 calendar days prior to commencing an EPA reference method testing program, a test protocol shall be submitted to the Department for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- (b) Pursuant to 25 Pa. Code § 139.3, at least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the Northeast Regional Office. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.
- (c) Complete test reports shall be submitted to the Department no later than 60 calendar days after completion of the onsite testing portion of an EPA reference method test program.
- (d) Pursuant to 25 Pa. Code § 139.53(b) a complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or noncompliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:
 - 1. A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
 - 2. Permit number(s) and condition(s) which are the basis for the evaluation.
 - 3. Summary of results with respect to each applicable permit condition.
 - 4. Statement of compliance or non-compliance with each applicable permit condition.
- (e) Pursuant to 25 Pa. Code § 139.3, all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- (f) All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.
- (g) Pursuant to 25 Pa. Code §§ 139.53(a)(1) and 139.53(a)(3), two (2) copies of all submittals, besides notifications, shall be sent to the Pennsylvania Department of Environmental Protection, Northeast Regional Office, Air Quality Program

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

Manager, 2 Public Square, Wilkes Barre PA, 18701.

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

(a) The permittee shall perform an initial stack test using the Department-approved procedures within 60 days of achieving the maximum capacity of the source, but no longer than 180 days after initial start-up. Performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department. When testing of a source is required on a recurring basis, a single procedural protocol may be submitted for approval; thereafter, a letter referencing the previously approved procedural protocol is sufficient.

However, if modifications are made to the process(es), if a different stack testing company is used, or if an applicable section of the stack testing manual has been revised since approval, a new protocol must be submitted for approval.

(b) At least ninety (90) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

(c) The stack test shall, at a minimum, test and/or monitor for the following:

- (1) PM, using EPA Method 5 and/or 22
- (2) VOC, using EPA Method 25A
- (3) Lead (Pb), using EPA Method 29
- (3) Mercury (Hg), using EPA Method 29
- (5) HCl, using EPA Method 320 or 26A
- (6) Temperature of primary chamber and afterburner exhaust gas
- (7) pH of the scrubber solution
- (8) Flow rate of the scrubber solution
- (9) Temperature of the scrubber exhaust gas
- (10) Pressure drop across the baghouse
- (11) Type and amount of material(s) processed
- (12) Incineration duration and average destruction rate (lb/hr)

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

For the incinerator and its associated control systems, the permittee shall monitor the following operating parameters when it is in operation:

- (a) Temperature of the afterburner exhaust gas continuously (at a minimum, one data point per one minute).
- (b) Temperature of the scrubber exhaust gas continuously (at a minimum, one data point per one minute).
- (c) Pressure drop across the baghouse, once per shift.
- (d) Flow rate of the scrubber solution, once per shift.
- (e) Scrubber solution pH, once per shift.

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

The permittee shall monitor and record the material throughput of the incinerator. The permittee shall monitor the following operating parameters when source ID 102 is in operation:

- (a) The weight before and after each destruction cycle (per batch).
- (b) The time at the start and end of each destruction cycle,
- (c) The duration of each destruction cycle.
- (d) The incineration rate (charge weight divided by destruction cycle time, lb/hr)
- (e) The operating hours, daily and monthly.

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

(f) The name and/or lot number, type and amount of material processed, per batch, daily, and monthly.

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

For the incinerator and its associated control system, the permittee shall record the following, whenever it is in operation:

- (a) Temperature of the afterburner exhaust gas continuously, as a five-minute block average (an average of five data points for a period of five minutes).
- (b) Temperature of the scrubber exhaust gas continuously (at a minimum, one data point per five minute).
- (c) Pressure drop across the baghouse, once per shift.
- (d) Flow rate of the scrubber solution, once per shift.
- (e) Scrubber solution pH, once per shift.

008 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Material Throughput:

For the incinerator and its associated control system, the permittee shall record the following, when it is in operation:

- (a) The weight before and after each destruction cycle (per batch).
- (b) The time at the start and end of each destruction cycle,
- (c) The duration of each destruction cycle.
- (d) The incineration rate (charge weight divided by destruction cycle time, lb/hr)
- (e) The operating hours, daily and monthly.
- (f) The name and/or lot number, type and amount of material processed, per batch, daily, and monthly

009 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall keep emissions records for the incinerator (ID102) for VOC's, PM, Pb, Hg, and HCL on a monthly and 12 month rolling sum basis.

The permittee may calculate the emissions based on the fuel usage, the hours of operation, the emission factors from the latest stack test results, and/or the amount/type/content of materials processed.

These records shall be kept for 5 years and retained on site.

010 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Inspections and Maintenance:

For the incinerator and its associated control system, the permittee shall maintain a record of all inspections and maintenance performed. The record shall contain, at a minimum, the following:

- (a) The date of the inspection.
- (b) Any problems or defects.
- (c) The corrective action taken.
- (d) Any maintenance performed.

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.**# 011 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

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

The permittee shall operate and maintain the incinerator and control devices (including during start up and shutdown periods) in accordance with manufacturer's specifications and/or facility's work practice standards, and in a manner consistent with good air pollution control practices.

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

The baghouse shall be equipped with a bag leak detection system which includes a visual alarm system

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

For the incinerator and its associated control systems,

(a) all afterburner exhaust flow shall be directed to its associated air pollution control system, except under the following conditions:

(1) during the incinerator startup (warm-up) period and prior to materials being loaded to the incinerator;

(2) during the incinerator cool down period, when the primary chamber temperature is below 500 °F.

(b) the permittee may operate the source only if its associated air pollution control equipment is operating properly.

(c) the permittee shall operate and maintain the source (including during start up and shutdown periods) in accordance with manufacturer's specifications and/or facility's work practice standards, and in a manner consistent with good air pollution control practices.

(d) the permittee shall provide training to staff and post signage at the facility indicating that hospital waste and/or medical/infectious waste shall not be accepted as a material to be combusted in the incinerator.

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: GROUP 3

Group Description: Induction melter

Sources included in this group

ID	Name
103	INDUCTION MELTER
C103	BAGHOUSE

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §123.13]****Processes**

No person may permit the emission into the outdoor atmosphere of particulate matter from the induction melter in such a manner that the concentration of particulate matter in the effluent gas exceeds .02 grains per dry standard cubic foot,

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

(a) The permittee shall perform an initial stack test using the Department-approved procedures within 60 days of achieving the maximum capacity of the source, but no longer than 180 days after initial start-up. Performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department. When testing of a source is required on a recurring basis, a single procedural protocol may be submitted for approval; thereafter, a letter referencing the previously approved procedural protocol is sufficient.

However, if modifications are made to the process(es), if a different stack testing company is used, or if an applicable section of the stack testing manual has been revised since approval, a new protocol must be submitted for approval.+

(b) At least ninety (90) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

(c) The stack test shall, at a minimum, test and/or monitor for the following:

- (1) Filterable PM, using EPA Method 5
- (2) Temperature of baghouse exhaust gas
- (3) Exhaust flow rate of the baghouse
- (4) Pressure drop across the baghouse
- (5) Type and amount of material(s) processed
- (6) Induction melting duration and average material throughput rate (lb/hr)

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

(a) Pursuant to 25 Pa. Code § 139.3, at least 60 calendar days prior to commencing an EPA reference method testing program, a test protocol shall be submitted to the Department for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.

(b) Pursuant to 25 Pa. Code § 139.3, at least 15 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the Northeast Regional Office. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.

(c) Complete test reports shall be submitted to the Department no later than 60 calendar days after completion of the onsite testing portion of an EPA reference method test program.

(d) Pursuant to 25 Pa. Code § 139.53(b) a complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or noncompliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:

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

1. A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
 2. Permit number(s) and condition(s) which are the basis for the evaluation.
 3. Summary of results with respect to each applicable permit condition.
 4. Statement of compliance or non-compliance with each applicable permit condition.
- (e) Pursuant to 25 Pa. Code § 139.3, all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- (f) All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.
- (g) Pursuant to 25 Pa. Code §§ 139.53(a)(1) and 139.53(a)(3), two (2) copies of all submittals, besides notifications, shall be sent to the Pennsylvania Department of Environmental Protection, Northeast Regional Office, Air Quality Program Manager, 2 Public Square, Wilkes Barre PA, 18701.

004 [25 Pa. Code §139.11]**General requirements.**

The following are applicable to source tests for determining emissions from stationary sources:

- (1) Performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.
- (2) The Department will consider for approval where sufficient information is provided to verify the source conditions existing at the time of the test and where adequate data is available to show the manner in which the test was conducted. Information submitted to the Department shall include, as a minimum all of the following:
 - (i) A thorough source description, including a description of any air cleaning devices and the flue.
 - (ii) Process conditions, for example, the charging rate of raw material or rate of production of final product, boiler pressure, oven temperature, and other conditions which may affect emissions from the process.
 - (iii) The location of the sampling ports.
 - (iv) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage CO, CO₂, O₂ and N₂), static and barometric pressures.
 - (v) Sample collection techniques employed, including procedures used, equipment descriptions and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met.
 - (vi) Laboratory procedures and results.
 - (vii) Calculated results.

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

the permittee shall monitor the following operating parameters when it is in operation:

- (a) pressure drop across the baghouse associated with this source, on a daily basis, and
- (b) hours of operation, daily.
- (c) the type of materials processes, and the amount of materials processed.

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

Pursuant to the Best Available Technology provisions of 25 Pa. Code Sections 127.1 and 127.12, the baghouse (C103) shall be equipped with a functioning and properly calibrated pressure differential gauge that monitors the pressure drop across the collector.

**SECTION E. Source Group Plan Approval Restrictions.****IV. RECORDKEEPING REQUIREMENTS.****# 007 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

- (a) The permittee shall maintain weekly records of the pressure drop readings across the baghouse.
- (b) The permittee shall keep records of the following for each control device on this source:
- (1) hours of operation, daily
 - (2) inspections performed
 - (3) maintenance performed
 - (4) any deficiencies
 - (5) any corrective actions taken.

008 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

- The permittee shall keep records of the following daily, when the induction melter is in operation,
- (a) the type of materials processes, and
 - (b) the amount of materials processed.

009 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall keep the PM emission records, as an annual 12 month rolling sum, based on the hours of operation and the emission factor obtained from the latest stack testing.

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.**# 010 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall operate and maintain the source (including during start up and shutdown periods) in accordance with manufacturer's specifications and/or facility's work practice standards, and in a manner consistent with good air pollution control practices.

011 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

- (a) The permittee shall maintain the pressure drop across the baghouse associated with this source within 2-10 inches of water gauge, when the furnace is in operation.
- (b) The permittee shall not operate any furnace without being controlled by a baghouse.
- (c) The permittee shall keep on hand a sufficient quantity of spare fabric cartridges and filters for the collectors associated with this source in order to be able to immediately replace any cartridge or filter requiring replacement due to deterioration resulting from routine operation of the source and fabric collector.
- (d) In the event of a sudden failure of the filter cartridges, the permittee shall stop the process until the control equipment can be repaired.
- (e) The permittee shall implement an inspection and maintenance program for the control device(s) on this source. Plans shall include weekly observations for abnormal emissions, indicating deterioration of the control device.

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.**

The following is a list of those sources and classes of sources determined, in accordance with § 127.14(a)(8), to be exempt from the Plan Approval requirements of §§ 127.11 and 127.12.

1. High-Temperature Mini-Melter (Small capacity electric induction furnace)
- 2.KCN Tank(Gold-cyanidation recovery process tank)



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