

West Virginia Department of Environmental Protection

Austin Caperton  
Cabinet Secretary

# Title V Operating Permit Revision



## For Minor and Significant Modification Permitting Actions Under 45CSR30 and Title V of the Clean Air Act

**Permit Action Number:** SM01 and MM01      **SIC:** 3353  
**Name of Permittee:** Constellium Rolled Products Ravenswood, LLC  
**Facility Name/Location:** Ravenswood  
**County:** Jackson  
**Permittee Mailing Address:** Route 2 South, Ravenswood, WV 26164

**Description of Permit Revision:** The purpose of SM01 is the addition of chlorine fluxing to the SNIF In-line Fluxer (005Pxxx); this change was permitted in R13-2376E. The purpose of MM01 is the installation of two Diesel-Fueled Fire Pump Engines (FP001 and FP002); these engines were permitted in G60-D106.

### Title V Permit Information:

**Permit Number:** R30-03500043-2018  
**Issued Date:** October 15, 2018  
**Effective Date:** October 29, 2018  
**Expiration Date:** October 15, 2023

**Directions To Facility:** Century Road off of WV State Route 2 just south of Ravenswood.

THIS PERMIT REVISION IS ISSUED IN ACCORDANCE WITH THE WEST VIRGINIA AIR POLLUTION CONTROL ACT (W.VA. CODE §§ 22-5-1 ET SEQ.) AND 45CSR30 - "REQUIREMENTS FOR OPERATING PERMITS." THE PERMITTEE IDENTIFIED AT THE FACILITY ABOVE IS AUTHORIZED TO OPERATE THE STATIONARY SOURCES OF AIR POLLUTANTS IDENTIFIED HEREIN IN ACCORDANCE WITH ALL TERMS AND CONDITIONS OF THIS PERMIT.

A handwritten signature in blue ink, reading "Laura M. Crowder".

Laura M. Crowder  
Director, Division of Air Quality

7/20/2020

Date Issued

Permit Number: **R30-03500043-2018**  
Permittee: **Constellium Rolled Products Ravenswood, LLC**  
Permittee Mailing Address: **P.O. Box 68, Ravenswood, WV 26164**

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*This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45CSR30 — Requirements for Operating Permits. The permittee identified at the above-referenced facility is authorized to operate the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.*

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Facility Location: Ravenswood, Jackson County, West Virginia  
Telephone Number: 304-273-7000  
Type of Business Entity: LLC  
Facility Description: Secondary Aluminum Operation  
SIC Codes: 3353  
UTM Coordinates: 428.30 km Easting • 4,308.60 km Northing • Zone 17

Permit Writer: Bobbie Scroggie

*Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.*

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*Issuance of this Title V Operating Permit does not supersede or invalidate any existing permits under 45CSR13, 14 or 19, although all applicable requirements from such permits governing the facility's operation and compliance have been incorporated into the Title V Operating Permit.*

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**APPENDIX A - R13-2102 Recordkeeping Forms**

## 1.0 Emission Units and Active R13, R14, and R19 Permits

### 1.1 Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
<i>Casting Department 005</i>					
005P104	005S101 or 005S102	Induction Furnace East	1975	1.2x10 <sup>7</sup> lbs	005C101 Baghouse 1 or 005C102 Baghouse 2
005P105	005S101 or 005S102	Induction Furnace West	1975	1.2x10 <sup>7</sup> lbs	005C101 Baghouse 1 or 005C102 Baghouse 2
005P107	005S105	Melting Furnace DC-1	1970	1.7x10 <sup>7</sup> lbs	None
005P108	005S106	Melting Furnace DC-2	1986	1.7x10 <sup>7</sup> lbs	None
005P109	005S107	Melting Furnace DC-3	1950s	1.0x10 <sup>7</sup> lbs	None
005P111	005S109	Melting Furnace DC-5	1950s	1.0x10 <sup>7</sup> lbs	None
005P112	005S110	Melting Furnace DC-6	1950s	1.0x10 <sup>7</sup> lbs	None
005P113	005S111	Melting Furnace DC-7	1960s	1.39x10 <sup>7</sup> lbs	None
005P114	005S112	Melting Furnace DC-8	1960s	1.39x10 <sup>7</sup> lbs	None
005P116	005S114	Melting Furnace DC-9B	1978	1.5x10 <sup>7</sup> lbs	None
005P117	005S115	Holding Furnace 1	1970	1.7x10 <sup>7</sup> lbs	None
005P118	005S116	Holding Furnace 2	1986	1.7x10 <sup>7</sup> lbs	None
005P119	005S117	Holding Furnace 3	1950s	1.0x10 <sup>7</sup> lbs	None
005P121	005S126	Holding Furnace 5	1950s	1.0x10 <sup>7</sup> lbs	005C105 Baghouse 4
005P122	005S120	Holding Furnace 6	1950s	1.0x10 <sup>7</sup> lbs	None
005P123	005S126	Holding Furnace 7	1960s	1.39x10 <sup>7</sup> lbs	005C105 Baghouse 4
005P124	005S126	Holding Furnace 8	1960s	1.39x10 <sup>7</sup> lbs	005C105 Baghouse 4
005P125	005S126	Holding Furnace 9	1978	3.0x10 <sup>7</sup> lbs	005C105 Baghouse 4
005P138	005S125	Paste Mixer	2005	1 ton	005C109 Baghouse
005P139	005S127	Melting Furnace DC-10A	2001	5.11x10 <sup>8</sup> lbs	None
005P140	005S128	Melting Furnace DC-10B	2001	5.11x10 <sup>8</sup> lbs	None
005P141	005S126	Holding Furnace 10	2001	5.11x10 <sup>8</sup> lbs	005C105 Baghouse 4
005P142	005S129	Rotary Furnace	2001	6.13x10 <sup>7</sup> lbs	005C108 Baghouse 5
<a href="#">005Pxxx</a>	<a href="#">005S126</a>	<a href="#">SNIF In-line Fluxer</a>	<a href="#">2020</a>	<a href="#">32.4 lb-Cl./hr</a>	<a href="#">005C105 Baghouse 4</a>

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
<i>Hot Line 006</i>					
006P102	006S102	Ingot Pusher Furnace	2017	55 mmBtu/hr	None
006P105	006S103, 006S104, 006S105, 006S106, 006S107, 006S108, 006S109, 006S110, 006S111, 006S112, 006S113, 006S114, 006S115, 006S116, 006S117	27 Heat Soaking Pits (337) A1 - 24 mmBtu/hr A2 - 24 mmBtu/hr B1 - 24 mmBtu/hr C1 - 3.32 mmBtu/hr/C2 -14.32 mmBtu/hr C3/C4 - 3.32 mmBtu/hr each C5/C6 - 3.32 mmBtu/hr each D1/D2 - 3.32 mmBtu/hr each D3/D4 - 3.32 mmBtu/hr each D5/D6 - 3.32 mmBtu/hr each E1/E2 - 3.32 mmBtu/hr each E3/E4 - 3.32 mmBtu/hr each E5/E6 - 3.32 mmBtu/hr each F1/F2 - 3.32 mmBtu/hr each F3/F4 - 3.32 mmBtu/hr each F5/F6 - 3.32 mmBtu/hr each	1958	5.63x10 <sup>5</sup> lbs/hr	None
006P107	None	168 Inch Hot Mill (351)	1958	2.4x10 <sup>5</sup> lbs/hr	None
006P109	006S118, 006S119, 006S120, 006S121	4 Reheat Furnaces	1958	2.0x10 <sup>6</sup> lbs/hr 9.168 mmBtu/hr each	None
006P110	None	110 Inch Hot Mill (355)	1958	2.4x10 <sup>5</sup> lbs/hr	None
006P113	None	5-Stand Hot Mill (361)	1958	2.4x10 <sup>5</sup> lbs/hr	None
006P119	006S126, 006S127	Ingot Pusher	1998	3.0x10 <sup>7</sup> lbs/hr 45 mmBtu/hr	None
006P120	006S128	Preheat Furnace	2003	1.56x10 <sup>4</sup> lbs/hr 31.968 mmBtu/hr	None
<i>Cold Line Rolling 007</i>					
007P101	007S101	72 Inch Single Stand Cold Mill (384)	1975	1.6x10 <sup>5</sup> lbs/hr	007C101 Demister
007P102	007S102	72 Inch Tandem Stand Cold Mill (382)	1971	2.6x10 <sup>4</sup> lbs/hr	007C102 Demister
007P103	007S104	130 Inch Single Stand Cold Mill (386)	1971	2.4x10 <sup>5</sup> lbs/hr	007C104 Cyclone
007P105	007S103	5-Stand Cold Mill (381)	1975	8.0x10 <sup>4</sup> lbs/hr	007C103 Demister

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
007P107	007S107, 007S108, 007S109, 007S110, 007S111, 007S112, 007S113, 007S114, 007S115, 007S116, 007S117, 007S118, 007S119	Cold Roll Annealing Furnaces	1971	1.33x10 <sup>8</sup> scf/month 7.68 mmBtu/hr each	None

**Plate Department 008**

008P102	008S101, 008S102, 008S103, 008S104	Salem 12 Zone Heat Treat Furnace (373)	1960	1.14x10 <sup>7</sup> scf/mo 17.25 mmBtu/hr	None
008P103	None	144 Inch Plate Mill (371)	1960	250 ft/min	None
008P104	None	120 Foot Aging Furnace (340)	1971	3.58x10 <sup>7</sup> scf/mo 60.12 mmBtu/hr	None
008P105	None	60 Foot Aging Furnace	1971	5.10x10 <sup>6</sup> scf/mo 7.68 mmBtu/hr	None
008P110	008S106, 008S107	Horizontal Heat Treat Furnace	1998	2.22x10 <sup>7</sup> scf/mo 29.16 mmBtu/hr	None
008P112	008S108	Horizontal Heat Treat Furnace Addition	2003	2.22x10 <sup>7</sup> scf/mo 19.44 mmBtu/hr	None
008P113	008S110	Horizontal Heat Treat Furnace Addition #2	2006	2.22x10 <sup>7</sup> scf/mo 19.44 mmBtu/hr	None
008P111	008S109	Aging Furnace	2001	5.10x10 <sup>6</sup> scf/mo 7.68 mmBtu/hr	None
008P114	008S111	Aging Furnace #2	2006	5.10x10 <sup>6</sup> scf/mo 7.68 mmBtu/hr	None

**Finishing Department 009**

009P103	009S101, 009S102, 009S103, 009S104, 009S105, 009S106, 009S107, 009S108, 009S109, 009S110	Coil Annealing Furnaces (413)	1971	1.42x10 <sup>7</sup> scf/mo 2.5 mmBtu/hr each	None
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Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
009P104	009S111, 009S112, 009S113, 009S114, 009S115	Coil Annealing Furnaces (521)	1971	9.64x10 <sup>7</sup> scf/mo 7.68 mmBtu/hr each	None
009P109	None	66 Inch Coil Processing Line (527)	1966	1.2x10 <sup>5</sup> lbs/hr	None
009P110	None	120 Inch Wide Level Line (575)	1972	1.6x10 <sup>5</sup> lbs/hr	None
009P111	None	Cut to Length Line (511)	1972	1.6x10 <sup>5</sup> lbs/hr	None
<i>Miscellaneous Sources 010</i>					
010P201	010S201	Dust Handling System (Consists of Truck Dump Receiving, Hopper A, Hopper B, Screw Conveyors SC-1, SC-2, SC-3, and SC-4, Bucket Elevator BE-1, Loading Bin , and Truck Loadout)	1995	20 tons/hr	010C201 Baghouse R-2
---	---	Emergency Generator; Waukesha 180DLC; diesel	1950s	25 HP	None
---	---	Emergency Generator; John Deere RG608/A118395; diesel	2001	275 HP	None
---	---	Emergency Generator; Generac 128557600100; spark ignition	2009	12 HP	None
---	---	Emergency Generator; Ford 429; spark ignition	1980s	220 HP	None
---	---	Emergency Generator; Ford 460; spark ignition	1980s	220 HP	None
---	---	Non-Emergency Generator; Mersino 1233606; diesel	2012	35 HP	None
EG-1	EG-1	Emergency Generator; Cummins Model DFEG-1342631; diesel	2014	755 HP	None
<a href="#">FP001</a>	<a href="#">FP001</a>	<a href="#">Clarke Fire Pump Driver/Model JWSH/UFAD80; diesel</a>	<a href="#">2020</a>	<a href="#">422 HP</a>	<a href="#">None</a>
<a href="#">FP002</a>	<a href="#">FP002</a>	<a href="#">Clarke Fire Pump Driver/Model JWSH/UFAD80; diesel</a>	<a href="#">2020</a>	<a href="#">422 HP</a>	<a href="#">None</a>

## 1.2. Active R13, R14, and R19 Permits

The underlying authority for any conditions from R13, R14, and/or R19 permits contained in this operating permit is cited using the original permit number (e.g. R13-1234). The current applicable version of such permit(s) is listed below.

<b>Permit Number</b>	<b>Date of Issuance</b>
R13-0017	January 10, 1974
R13-0072	May 23, 1974
R13-0383A	August 5, 2011
R13-2102	July 1, 1997
R13-2376 <del>DE</del>	<del>July 31, 2015</del> <a href="#">May 1, 2020</a>
G60-C065	October 29, 2014
<a href="#">G60-D106</a>	<a href="#">January 10, 2020</a>



## 2.0. General Conditions

### 2.1. Definitions

- 2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.
- 2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.
- 2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.
- 2.1.4. Unless otherwise specified in a permit condition or underlying rule or regulation, all references to a "rolling yearly total" shall mean the sum of the monthly data, values or parameters being measured, monitored, or recorded, at any given time for the previous twelve (12) consecutive calendar months

### 2.2. Acronyms

<b>CAAA</b>	Clean Air Act Amendments	<b>NESHAPS</b>	National Emissions Standards for Hazardous Air Pollutants
<b>CBI</b>	Confidential Business Information	<b>NO<sub>x</sub></b>	Nitrogen Oxides
<b>CEM</b>	Continuous Emission Monitor	<b>NSPS</b>	New Source Performance Standards
<b>CES</b>	Certified Emission Statement	<b>PM</b>	Particulate Matter
<b>C.F.R. or CFR</b>	Code of Federal Regulations	<b>PM<sub>10</sub></b>	Particulate Matter less than 10µm in diameter
<b>CO</b>	Carbon Monoxide	<b>pph</b>	Pounds per Hour
<b>C.S.R. or CSR</b>	Codes of State Rules	<b>ppm</b>	Parts per Million
<b>DAQ</b>	Division of Air Quality	<b>PSD</b>	Prevention of Significant Deterioration
<b>DEP</b>	Department of Environmental Protection	<b>psi</b>	Pounds per Square Inch
<b>FOIA</b>	Freedom of Information Act	<b>SIC</b>	Standard Industrial Classification
<b>HAP</b>	Hazardous Air Pollutant	<b>SIP</b>	State Implementation Plan
<b>HON</b>	Hazardous Organic NESHAP	<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>HP</b>	Horsepower	<b>TAP</b>	Toxic Air Pollutant
<b>lbs/hr</b>	Pounds per Hour	<b>TPY</b>	Tons per Year
<b>LDAR</b>	Leak Detection and Repair	<b>TRS</b>	Total Reduced Sulfur
<b>m</b>	Thousand	<b>TSP</b>	Total Suspended Particulate
<b>MACT</b>	Maximum Achievable Control Technology	<b>USEPA</b>	United States Environmental Protection Agency
<b>mm</b>	Million	<b>UTM</b>	Universal Transverse Mercator
<b>mmBtu/hr</b>	Million British Thermal Units per Hour	<b>VEE</b>	Visual Emissions Evaluation
<b>mmft<sup>3</sup>/hr</b>	Million Cubic Feet Burned per Hour	<b>VOC</b>	Volatile Organic Compounds
<b>NA or N/A</b>	Not Applicable		
<b>NAAQS</b>	National Ambient Air Quality Standards		

### **2.3. Permit Expiration and Renewal**

- 2.3.1. Permit duration. This permit is issued for a fixed term of five (5) years and shall expire on the date specified on the cover of this permit, except as provided in 45CSR§30-6.3.b. and 45CSR§30-6.3.c.  
**[45CSR§30-5.1.b.]**
- 2.3.2. A permit renewal application is timely if it is submitted at least six (6) months prior to the date of permit expiration.  
**[45CSR§30-4.1.a.3.]**
- 2.3.3. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with 45CSR§30-6.2. and 45CSR§30-4.1.a.3.  
**[45CSR§30-6.3.b.]**
- 2.3.4. If the Secretary fails to take final action to deny or approve a timely and complete permit application before the end of the term of the previous permit, the permit shall not expire until the renewal permit has been issued or denied, and any permit shield granted for the permit shall continue in effect during that time.  
**[45CSR§30-6.3.c.]**

### **2.4. Permit Actions**

- 2.4.1. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.  
**[45CSR§30-5.1.f.3.]**

### **2.5. Reopening for Cause**

- 2.5.1. This permit shall be reopened and revised under any of the following circumstances:
- a. Additional applicable requirements under the Clean Air Act or the Secretary's legislative rules become applicable to a major source with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 45CSR§§30-6.6.a.1.A. or B.
  - b. Additional requirements (including excess emissions requirements) become applicable to an affected source under Title IV of the Clean Air Act (Acid Deposition Control) or other legislative rules of the Secretary. Upon approval by U.S. EPA, excess emissions offset plans shall be incorporated into the permit.
  - c. The Secretary or U.S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
  - d. The Secretary or U.S. EPA determines that the permit must be revised or revoked and reissued to assure compliance with the applicable requirements.  
**[45CSR§30-6.6.a.]**

## **2.6. Administrative Permit Amendments**

- 2.6.1. The permittee may request an administrative permit amendment as defined in and according to the procedures specified in 45CSR§30-6.4.  
**[45CSR§30-6.4.]**

## **2.7. Minor Permit Modifications**

- 2.7.1. The permittee may request a minor permit modification as defined in and according to the procedures specified in 45CSR§30-6.5.a.  
**[45CSR§30-6.5.a.]**

## **2.8. Significant Permit Modification**

- 2.8.1. The permittee may request a significant permit modification, in accordance with 45CSR§30-6.5.b., for permit modifications that do not qualify for minor permit modifications or as administrative amendments.  
**[45CSR§30-6.5.b.]**

## **2.9. Emissions Trading**

- 2.9.1. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit and that are in accordance with all applicable requirements.  
**[45CSR§30-5.1.h.]**

## **2.10. Off-Permit Changes**

- 2.10.1. Except as provided below, a facility may make any change in its operations or emissions that is not addressed nor prohibited in its permit and which is not considered to be construction nor modification under any rule promulgated by the Secretary without obtaining an amendment or modification of its permit. Such changes shall be subject to the following requirements and restrictions:
- a. The change must meet all applicable requirements and may not violate any existing permit term or condition.
  - b. The permittee must provide a written notice of the change to the Secretary and to U.S. EPA within two (2) business days following the date of the change. Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.
  - c. The change shall not qualify for the permit shield.
  - d. The permittee shall keep records describing all changes made at the source that result in emissions of regulated air pollutants, but not otherwise regulated under the permit, and the emissions resulting from those changes.
  - e. No permittee may make any change subject to any requirement under Title IV of the Clean Air Act (Acid Deposition Control) pursuant to the provisions of 45CSR§30-5.9.

- f. No permittee may make any changes which would require preconstruction review under any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) pursuant to the provisions of 45CSR§30-5.9.

**[45CSR§30-5.9]**

## **2.11. Operational Flexibility**

- 2.11.1. The permittee may make changes within the facility as provided by § 502(b)(10) of the Clean Air Act. Such operational flexibility shall be provided in the permit in conformance with the permit application and applicable requirements. No such changes shall be a modification under any rule or any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) promulgated by the Secretary in accordance with Title I of the Clean Air Act and the change shall not result in a level of emissions exceeding the emissions allowable under the permit.

**[45CSR§30-5.8]**

- 2.11.2. Before making a change under 45CSR§30-5.8., the permittee shall provide advance written notice to the Secretary and to U.S. EPA, describing the change to be made, the date on which the change will occur, any changes in emissions, and any permit terms and conditions that are affected. The permittee shall thereafter maintain a copy of the notice with the permit, and the Secretary shall place a copy with the permit in the public file. The written notice shall be provided to the Secretary and U.S. EPA at least seven (7) days prior to the date that the change is to be made, except that this period may be shortened or eliminated as necessary for a change that must be implemented more quickly to address unanticipated conditions posing a significant health, safety, or environmental hazard. If less than seven (7) days notice is provided because of a need to respond more quickly to such unanticipated conditions, the permittee shall provide notice to the Secretary and U.S. EPA as soon as possible after learning of the need to make the change.

**[45CSR§30-5.8.a.]**

- 2.11.3. The permit shield shall not apply to changes made under 45CSR§30-5.8., except those provided for in 45CSR§30-5.8.d. However, the protection of the permit shield will continue to apply to operations and emissions that are not affected by the change, provided that the permittee complies with the terms and conditions of the permit applicable to such operations and emissions. The permit shield may be reinstated for emissions and operations affected by the change:

- a. If subsequent changes cause the facility's operations and emissions to revert to those authorized in the permit and the permittee resumes compliance with the terms and conditions of the permit, or
- b. If the permittee obtains final approval of a significant modification to the permit to incorporate the change in the permit.

**[45CSR§30-5.8.c.]**

- 2.11.4. "Section 502(b)(10) changes" are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements.

**[45CSR§30-2.39]**

## **2.12. Reasonably Anticipated Operating Scenarios**

- 2.12.1. The following are terms and conditions for reasonably anticipated operating scenarios identified in this permit.

- a. Contemporaneously with making a change from one operating scenario to another, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating and to document the change in reports submitted pursuant to the terms of this permit and 45CSR30.
- b. The permit shield shall extend to all terms and conditions under each such operating scenario; and
- c. The terms and conditions of each such alternative scenario shall meet all applicable requirements and the requirements of 45CSR30.  
**[45CSR§30-5.1.i.]**

### **2.13. Duty to Comply**

- 2.13.1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.  
**[45CSR§30-5.1.f.1.]**

### **2.14. Inspection and Entry**

- 2.14.1. The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:
  - a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
  - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  - c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
  - d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.  
**[45CSR§30-5.3.b.]**

### **2.15. Schedule of Compliance**

- 2.15.1. For sources subject to a compliance schedule, certified progress reports shall be submitted consistent with the applicable schedule of compliance set forth in this permit and 45CSR§30-4.3.h., but at least every six (6) months, and no greater than once a month, and shall include the following:
  - a. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and

- b. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measure adopted.

[45CSR§30-5.3.d.]

## **2.16. Need to Halt or Reduce Activity not a Defense**

- 2.16.1. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

[45CSR§30-5.1.f.2.]

## **2.17. Emergency**

- 2.17.1. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

[45CSR§30-5.7.a.]

- 2.17.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of 45CSR§30-5.7.c. are met.

[45CSR§30-5.7.b.]

- 2.17.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The permitted facility was at the time being properly operated;
- c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- d. Subject to the requirements of 45CSR§30-5.1.c.3.C.1, the permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice, report, and variance request fulfills the requirement of 45CSR§30-5.1.c.3.B. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

[45CSR§30-5.7.c.]

- 2.17.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

[45CSR§30-5.7.d.]

- 2.17.5. This provision is in addition to any emergency or upset provision contained in any applicable requirement.  
[45CSR§30-5.7.e.]

## **2.18. Federally-Enforceable Requirements**

- 2.18.1. All terms and conditions in this permit, including any provisions designed to limit a source's potential to emit and excepting those provisions that are specifically designated in the permit as "State-enforceable only", are enforceable by the Secretary, USEPA, and citizens under the Clean Air Act.  
[45CSR§30-5.2.a.]
- 2.18.2. Those provisions specifically designated in the permit as "State-enforceable only" shall become "Federally-enforceable" requirements upon SIP approval by the USEPA.

## **2.19. Duty to Provide Information**

- 2.19.1. The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records required to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 CFR Part 2.  
[45CSR§30-5.1.f.5.]

## **2.20. Duty to Supplement and Correct Information**

- 2.20.1. Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.  
[45CSR§30-4.2.]

## **2.21. Permit Shield**

- 2.21.1. Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance provided that such applicable requirements are included and are specifically identified in this permit or the Secretary has determined that other requirements specifically identified are not applicable to the source and this permit includes such a determination or a concise summary thereof.  
[45CSR§30-5.6.a.]
- 2.21.2. Nothing in this permit shall alter or affect the following:
- a. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance; or
  - b. The applicable requirements of the Code of West Virginia and Title IV of the Clean Air Act (Acid Deposition Control), consistent with § 408 (a) of the Clean Air Act.

- c. The authority of the Administrator of U.S. EPA to require information under § 114 of the Clean Air Act or to issue emergency orders under § 303 of the Clean Air Act.

[45CSR§30-5.6.c.]

## **2.22. Credible Evidence**

- 2.22.1. Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee including but not limited to any challenge to the credible evidence rule in the context of any future proceeding.

[45CSR§30-5.3.e.3.B. and 45CSR38]

## **2.23. Severability**

- 2.23.1. The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstance is held invalid by a court of competent jurisdiction, the remaining permit terms and conditions or their application to other circumstances shall remain in full force and effect.

[45CSR§30-5.1.e.]

## **2.24. Property Rights**

- 2.24.1. This permit does not convey any property rights of any sort or any exclusive privilege.

[45CSR§30-5.1.f.4]

## **2.25. Acid Deposition Control**

- 2.25.1. Emissions shall not exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act (Acid Deposition Control) or rules of the Secretary promulgated thereunder.

- a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid deposition control program, provided that such increases do not require a permit revision under any other applicable requirement.

- b. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement.

- c. Any such allowance shall be accounted for according to the procedures established in rules promulgated under Title IV of the Clean Air Act.

[45CSR§30-5.1.d.]

- 2.25.2. Where applicable requirements of the Clean Air Act are more stringent than any applicable requirement of regulations promulgated under Title IV of the Clean Air Act (Acid Deposition Control), both provisions shall be incorporated into the permit and shall be enforceable by the Secretary and U. S. EPA.

[45CSR§30-5.1.a.2.]



### 3.0. Facility-Wide Requirements

#### 3.1. Limitations and Standards

- 3.1.1. **Open burning.** The open burning of refuse by any person is prohibited except as noted in 45CSR§6-3.1.  
[45CSR§6-3.1.]
- 3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause or allow any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.  
[45CSR§6-3.2.]
- 3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 CFR § 61.145, 40 CFR § 61.148, and 40 CFR § 61.150. The permittee must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 CFR § 61.145(b)(3)(I). The USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them.  
[40 CFR 61 and 45CSR34]
- 3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.  
[45CSR§4-3.1 State-Enforceable only.]
- 3.1.5. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11.  
[45CSR§11-5.2]
- 3.1.6. **Emission inventory.** The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements of the Division of Air Quality.  
[W.Va. Code § 22-5-4(a)(14)]
- 3.1.7. **Ozone-depleting substances.** For those facilities performing maintenance, service, repair or disposal of appliances, the permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to 40 CFR §§ 82.154 and 82.156.
  - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR § 82.158.
  - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR § 82.161.
- [40 CFR 82, Subpart F]

- 3.1.8. **Risk Management Plan.** This stationary source, as defined in 40 CFR § 68.3, is subject to Part 68. This stationary source shall submit a risk management plan (RMP) by the date specified in 40 CFR § 68.10. This stationary source shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 CFR Part 70 or 71.  
**[40 CFR 68]**
- 3.1.9. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in 3.1.10. (005P104, 005P105, 005P107, 005P108, 005P109, 005P111, 005P112, 005P113, 005P114, 005P116, 005P139, 005P140, 005P117, 005P118, 005P119, 005P121, 005P122, 005P123, 005P124, 005P125, 005P141, 005P142, 005P138, 006P102, 006P105, 006P107, 006P109, 006P110, 006P113, 006P119, 006P120, 007P101, 007P102, 007P103, 007P105, 007P107, 008P102, 008P104, 008P105, 008P110, 008P112, 008P113, 008P111, 008P114, 009P103, 009P104, and 010P201)  
**[45CSR13, R13-2102, B.3; 45CSR13, R13-2376, 4.1.13.a; 45CSR13, R13-0383, 4.1.2; 45CSR§7-3.1]**
- 3.1.10. The provision of 3.1.9 shall not apply to smoke and/or particulate matter emitted from any process source operation which is less than forty (40) percent opacity for any period or periods aggregating no more than five (5) minutes in any sixty (60) minute period. (005P104, 005P105, 005P107, 005P108, 005P109, 005P111, 005P112, 005P113, 005P114, 005P116, 005P139, 005P140, 005P117, 005P118, 005P119, 005P121, 005P122, 005P123, 005P124, 005P125, 005P141, 005P142, 005P138, 006P102, 006P105, 006P107, 006P109, 006P110, 006P113, 006P119, 006P120, 007P101, 007P102, 007P103, 007P105, 007P107, 008P102, 008P104, 008P105, 008P110, 008P112, 008P113, 008P111, 008P114, 009P103, 009P104, and 010P201)  
**[45CSR13, R13-2102, B.3; 45CSR13, R13-2376, 4.1.143.b; 45CSR13, R13-0383, 4.1.3; 45CSR§7-3.2]**
- 3.1.11. No person shall cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operate that is not equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operation and maintenance procedures, to minimize the emissions of fugitive particulate matter. To minimize means such system shall be installed, maintained and operated to ensure the lowest fugitive particulate matter emissions reasonably achievable.  
**[45CSR13, R13-2102, B.3; 45CSR§7-5.1; 45CSR13, R13-2376, 4.1.13.c]**
- 3.1.12. The owner or operator of a plant shall maintain particulate matter control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust control measures. Good operating practices shall be implemented and when necessary particulate matter suppressants shall be applied in relation to stockpiling and general material handling to minimize particulate matter generation and atmospheric entrainment.  
**[45CSR13, R13-2102, B.3; 45CSR§7-5.2]**
- 3.1.13. No person shall circumvent the provisions of 45CSR7 by adding additional gas to any exhaust or group of exhausts for the purpose of reducing the stack gas concentration.  
**[45CSR13, R13-2102, B.3; 45CSR§7-4.3]**
- 3.1.14. Any stack serving any process source operation or air pollution control equipment on any process source operation shall contain flow straightening devices or a vertical run of sufficient length to establish flow patterns consistent with acceptable stack sampling procedures.  
**[45CSR13, R13-2102, B.3; 45CSR§7-4.12]**

- 3.1.15. Due to unavoidable malfunction of equipment, emissions exceeding those set forth in 45CSR7 may be permitted by the Director for periods not to exceed ten (10) days upon specific application to the Director. Such application shall be made within twenty-four (24) hours of the malfunction. In cases of major equipment failure, additional time periods may be granted by the Director provided a corrective program has been submitted by the owner or operator and approved by the Director.  
**[45CSR13, R13-2102, B.3; 45CSR§7-9.1]**
- 3.1.16. The permittee shall burn natural gas meeting the Federal Energy Regulatory Commission (FERC) requirements exclusively for all furnaces.  
**[45CSR§30-12.7]**
- 3.1.17. **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.0 of R13-0383A (005C105, 007C101, and 007C102) and Section 1.0 of R13-2376D and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary.  
**[45CSR13, R13-0383, 4.1.22; R13-2376, 4.1.2516.; 45CSR§13-5.11]**
- 3.1.18. **40 CFR 63, Subpart DDDDD.** The natural gas-fired process heaters shall comply with all applicable requirements for existing affected sources, pursuant to 40 CFR 63, Subpart DDDDD, “National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters” no later than the existing source compliance date of January 31, 2016.
- a. 1. You must meet each work practice standard in Table 3 to 40 CFR 63 subpart DDDDD that applies to your boiler or process heater, for each boiler or process heater at your source.
2. At all times, you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
- b. Boilers and process heaters in the units designed to burn gas 1 fuels subcategory with a heat input capacity of less than or equal to 5 million Btu per hour must complete a tune-up every 5 years as specified in condition 3.2.2. Boilers and process heaters in the units designed to burn gas 1 fuels subcategory with a heat input capacity greater than 5 million Btu per hour and less than 10 million Btu per hour must complete a tune-up every 2 years as specified in condition 3.2.2. Boilers and process heaters in the units designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13 or the operating limits in Table 4 to 40 CFR 63 subpart DDDDD.
- (006P102, 006P105, 006P109, 006P119, 006P120, 007P107, 008P102, 008P104, 008P105, 008P110, 008P112, 008P113, 008P111, 008P114, 009P103, and 009P104)*  
**[45CSR34, 40 CFR §§63.7495(b), 63.7500(a)(1), (a)(3), and (e) and Table 3 to 40 CFR 63 subpart DDDDD]**

### 3.2. Monitoring Requirements

3.2.1. Visual emission checks of each emission point subject to an opacity limit under conditions 3.1.9 and 3.1.10 shall be conducted once per week during periods of normal facility operation for a minimum of one (1) minute using 40 CFR 60, Appendix A, Method 22. If during these checks, or at any other time, visible emissions are observed at any emission point, compliance shall be determined by conducting tests in accordance with the methodology set forth in 45CSR7A – “Compliance Test Procedures for 45CSR7.” If no visible emissions are observed after two weeks, visible emission checks shall be conducted monthly. If any visible emissions are observed during the monthly emission checks, visible emission checks shall return to being performed weekly. If no visible emissions are observed after four months, visible emission checks shall be conducted each calendar quarter. If any visible emissions are observed during the quarterly emission checks, visible emission checks shall return to being performed each calendar month. Records shall be maintained on site and shall include all data required by 40 CFR 60, Appendix A, Method 22 or 45CSR7A, whichever is appropriate. These records shall include, at a minimum, the date and time of each visible emission check, the visible emissions survey results and, if appropriate, all corrective actions taken.

**[45CSR13, R13-0383, 4.3.1; 45CSR§30-5.1.c]**

3.2.2. **How do I demonstrate continuous compliance with the emission limitations, fuel specifications and work practice standards?** You must demonstrate continuous compliance with the work practice standards in condition 3.1.18. that apply to you according to the methods specified in conditions a. through d. below.

- a. If your boiler or process heater has a heat input capacity of 10 million Btu per hour or greater, you must conduct an annual tune-up of the boiler or process heater to demonstrate continuous compliance as specified in conditions i. through vi. below. You must conduct the tune-up while burning the type of fuel (or fuels in case of units that routinely burn a mixture) that provided the majority of the heat input to the boiler or process heater over the 12 months prior to the tune-up. Each annual tune-up must be no more than 13 months after the previous tune-up.
  - i. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may perform the burner inspection any time prior to the tune-up or delay the burner inspection until the next scheduled unit shutdown). At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;
  - ii. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
  - iii. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown).
  - iv. Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO<sub>x</sub> requirement to which the unit is subject;
  - v. Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and

- vi. Maintain on-site and submit, if requested by the Administrator, a report containing the information in conditions A. through C. below,
  - A. The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;
  - B. A description of any corrective actions taken as a part of the tune-up; and
  - C. The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.

*(006P102, 006P105 (A1, A2, B1, C2), 006P119, 006P120, 008P102, 008P104, 008P110, 008P112, 008P113)*

- b. If your boiler or process heater has a heat input capacity of less than 10 million Btu per hour (except as specified in condition c. below), you must conduct a biennial tune-up of the boiler or process heater as specified in conditions a.i. through vi. to demonstrate continuous compliance. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. *(006P109, 007P107, 008P105, 008P111, 008P114, 009P104)*
- c. If your boiler or process heater has a heat input capacity of less than or equal to 5 million Btu per hour and the unit is in the units designed to burn gas 1, you must conduct a tune-up of the boiler or process heater every 5 years as specified in conditions a.i. through vi. to demonstrate continuous compliance. You may delay the burner inspection specified in condition a.i. until the next scheduled or unscheduled unit shutdown, but you must inspect each burner at least once every 72 months. Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up. *(006P105 (C1, C3-C6, D1-D6, E1-E6, F1-F6), 009P103)*
- d. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup.

[45CSR34, 40 CFR §§ 63.7540(a)(10), (11), (12), (13), 63.7515(d)]

3.2.3. [Emission Limit Averaging Time.](#) Unless otherwise specified, compliance with all annual limits in permit R13-2376 shall be based on a rolling twelve month total. A rolling twelve month total shall be the sum of the measured parameter of the previous twelve calendar months. Compliance with all hourly emission limits shall be based on the applicable NAAQS averaging times or, where applicable, as given in any approved performance test method. [\[45CSR13, R13-2376, 3.2.1\]](#)

### 3.3. Testing Requirements

- 3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance

with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

- a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 CFR Parts 60, 61, and 63, if applicable, in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable.
  - b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under condition 3.3.1.a. of this permit.
  - c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.
  - d. The permittee shall submit a report of the results of the stack test within 60 days of completion of the test. The test report shall provide the information necessary to document the objectives of the test and to determine whether proper procedures were used to accomplish these objectives. The report shall include the following: the certification described in condition 3.5.1; a statement of compliance status, also signed by a responsible official; and, a summary of conditions which form the basis for the compliance status evaluation. The summary of conditions shall include the following:
    1. The permit or rule evaluated, with the citation number and language.
    2. The result of the test for each permit or rule condition.
    3. A statement of compliance or non-compliance with each permit or rule condition.
- [WV Code § 22-5-4(a)(14-15) and 45CSR13]

### 3.4. Recordkeeping Requirements

- 3.4.1. **Monitoring information.** The permittee shall keep records of monitoring information that include the following:
  - a. The date, place as defined in this permit and time of sampling or measurements;
  - b. The date(s) analyses were performed;
  - c. The company or entity that performed the analyses;
  - d. The analytical techniques or methods used;
  - e. The results of the analyses; and

- f. The operating conditions existing at the time of sampling or measurement.  
**[45CSR§30-5.1.c.2.A.; 45CSR13, R13-0383, 4.4.1., and R13-2376, 4.34.1., 45CSR13 General Permit Registration G60-C065, G60-D106, & G60-D, 4.2.1. ]**
- 3.4.2. **Retention of records.** The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report, application, or record creation date. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Where appropriate, records may be maintained in computerized form in lieu of the above records.  
**[45CSR§30-5.1.c.2.B.]**
- 3.4.3. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.  
**[45CSR§30-5.1.c. State-Enforceable only.]**
- 3.4.4. **Fugitives.** The permittee shall monitor all fugitive particulate matter emission sources as required by 3.1.11 to ensure that a system to minimize fugitive emissions has been installed or implemented. Records shall be maintained on site stating the types of fugitive particulate matter capture and/or suppression systems used, the times these systems were inoperable, and the corrective actions taken to repair these systems.  
**[45CSR§30-5.1.c]**
- 3.4.5. **Fugitives.** The permittee shall maintain records indicating the use of any dust suppressants or any other suitable dust control measures as required by 3.1.12 applied at the facility. These records shall be maintained on site.  
**[45CSR§30-5.1.c]**
- 3.4.6. **Record of Maintenance of Air Pollution Control Equipment.** For all pollution control equipment listed in Section 1.0 of R13-0383A (005C105, 007C101, and 007C102) and Section 1.0 of R13-2376 **D E** (005C105 and 005C108), the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures.  
**[45CSR13, R13-0383, 4.4.2 and R13-2376, 4.34.2.]**
- 3.4.7. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.0 of R13-0383A (005C105, 007C101, and 007C102) and Section 1.0 of R13-2376 **D E** (005C105 and 005C108), the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:
- a. The equipment involved.
  - b. Steps taken to minimize emissions during the event.
  - c. The duration of the event.
  - d. The estimated increase in emissions during the event.
- For each such case associated with an equipment malfunction, the additional information shall also be recorded:
- e. The cause of the malfunction.

- f. Steps taken to correct the malfunction.
- g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.  
[45CSR13, R13-0383, 4.4.3 and R13-2376, 4.34.3.]

### 3.5. Reporting Requirements

- 3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.  
[45CSR§30-4.4. and 5.1.c.3.D.]
- 3.5.2. A permittee may request confidential treatment for the submission of reporting required under 45CSR§30-5.1.c.3. pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.  
[45CSR§30-5.1.c.3.E.]
- 3.5.3. Except for the electronic submittal of the annual compliance certification and semi-annual monitoring reports to the DAQ and USEPA as required in 3.5.5 and 3.5.6 below, all notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, or mailed first class or by private carrier with postage prepaid to the address(es), or submitted in electronic format by e-mail as set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

#### DAQ:

Director  
WVDEP  
Division of Air Quality  
601 57th Street SE  
Charleston, WV 25304

#### US EPA:

Associate Director  
Office of Air Enforcement and Compliance  
Assistance (3AP20)  
Section Chief  
U. S. Environmental Protection Agency,  
Region III  
Enforcement and Compliance Assurance Division  
Air Section (3ED21)  
1650 Arch Street  
Philadelphia, PA 19103-2029

#### DAQ Compliance and Enforcement<sup>1</sup>:

DEPAirQualityReports@wv.gov

<sup>1</sup> For all self-monitoring reports (MACT, GACT, NSPS, etc.), stack tests and protocols, Notice of Compliance Status reports, Initial Notifications, etc.

- 3.5.4. **Certified emissions statement.** The permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality.  
[45CSR§30-8.]



- 3.5.5. **Compliance certification.** The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The annual certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period ending December 31. The permittee shall maintain a copy of the certification on site for five (5) years from submittal of the certification. The annual certification shall be submitted in electronic format by e-mail to the following addresses:

**DAQ:**  
DEPAirQualityReports@wv.gov  
[45CSR§30-5.3.e.]

**US EPA:**  
R3\_APD\_Permits@epa.gov

- 3.5.6. **Semi-annual monitoring reports.** The permittee shall submit reports of any required monitoring on or before September 15 for the reporting period January 1 to June 30 and on or before March 15 for the reporting period July 1 to December 31. All instances of deviation from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with 45CSR§30-4.4. The semi-annual monitoring reports shall be submitted in electronic format by e-mail to the following address:

**DAQ:** DEPAirQualityReports@wv.gov  
[45CSR§30-5.1.c.3.A.]

- 3.5.7. **Emergencies.** For reporting emergency situations, refer to Section 2.17 of this permit.

3.5.8. **Deviations.**

- a. In addition to monitoring reports required by this permit, the permittee shall promptly submit supplemental reports and notices in accordance with the following:

1. Any deviation resulting from an emergency or upset condition, as defined in 45CSR§30-5.7., shall be reported by telephone or telefax within one (1) working day of the date on which the permittee becomes aware of the deviation, if the permittee desires to assert the affirmative defense in accordance with 45CSR§30-5.7. A written report of such deviation, which shall include the probable cause of such deviations, and any corrective actions or preventative measures taken, shall be submitted and certified by a responsible official within ten (10) days of the deviation.
2. Any deviation that poses an imminent and substantial danger to public health, safety, or the environment shall be reported to the Secretary immediately by telephone or telefax. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.
3. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.
4. All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken.

[45CSR§30-5.1.c.3.C.]

- b. The permittee shall, in the reporting of deviations from permit requirements, including those attributable to upset conditions as defined in this permit, report the probable cause of such deviations and any corrective actions or preventive measures taken in accordance with any rules of the Secretary.

[45CSR§30-5.1.c.3.B.]

- 3.5.9. **New applicable requirements.** If any applicable requirement is promulgated during the term of this permit, the permittee will meet such requirements on a timely basis, or in accordance with a more detailed schedule if required by the applicable requirement.  
**[45CSR§30-4.3.h.1.B.]**
- 3.5.10. a. For units that are subject only to a requirement to conduct subsequent annual, biennial, or 5-year tune-up according to condition 3.2.2., you may submit only an annual, biennial, or 5-year compliance report, as applicable, as specified in paragraphs 1. through 4. below, instead of a semi-annual compliance report.
1. If submitting an annual, biennial, or 5-year compliance report, the first compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in 40 CFR §63.7495 and ending on December 31 within 1, 2, or 5 years, as applicable, after the compliance date that is specified for your source in 40 CFR §63.7495.
  2. The first annual, biennial, or 5-year compliance report must be postmarked or submitted no later than January 31.
  3. Annual, biennial, and 5-year compliance reports must cover the applicable 1-, 2-, or 5-year periods from January 1 to December 31.
  4. Annual, biennial, and 5-year compliance reports must be postmarked or submitted no later than January 31.
- b. A compliance report must contain the following information depending on how the facility chooses to comply with the limits set in this rule.
1. If the facility is subject to the requirements of a tune up you must submit a compliance report with the information in paragraphs i. through v. below.
    - i. Company and Facility name and address.
    - ii. Process unit information, emissions limitations, and operating parameter limitations.
    - iii. Date of report and beginning and ending dates of the reporting period.
    - iv. Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up according to condition 3.2.2., respectively. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown.
    - v. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

**[45CSR34, 40 CFR §§ 63.7550(b) (c)(1), (5)(i) through (iii), (xiv), and (xvii)]**

### **3.6. Compliance Plan**

- 3.6.1. None.

### **3.7. Permit Shield**

- 3.7.1. The permittee is hereby granted a permit shield in accordance with 45CSR§30-5.6. The permit shield applies provided the permittee operates in accordance with the information contained within this permit.

- 3.7.2. The following requirements specifically identified are not applicable to the source based on the determinations set forth below. The permit shield shall apply to the following requirements provided the conditions of the determinations are met.
- a. 45CSR10 – “To Prevent and Control Air Pollution from the Emission of Sulfur Oxides.” 45CSR§10-4.1.e exempts manufacturing process source operations from the 45CSR§10-4.1 sulfur dioxide concentration limit of 2,000 ppm<sub>v</sub> if the potential to emit from the manufacturing process source operation is less than 500 pounds per year of sulfur oxides. All manufacturing process source operations at CRP have the potential to emit less than 500 lbs/year of sulfur oxides.
  - b. 40 CFR 60, Subpart Dc – “Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.” The facility does not operate any boilers. All steam is purchased from the adjacent facility; therefore, 40 CFR 60, Subpart Dc does not apply.
  - c. 40 CFR 60, Subpart Kb – “Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. 40 CFR 60, Subpart Kb, as amended on October 15, 2003, applies to each storage vessel with a capacity greater than or equal to 75 m<sup>3</sup> that is used to store volatile organic liquids (VOL) for which construction, reconstruction, or modification is commenced after July 23, 1984. All tanks at this facility which store volatile organic liquid were either installed before July 23, 1984 or have a storage capacity of less than 75 m<sup>3</sup>.
  - d. 40 CFR 63, Subpart LL – “National Emission Standards for Hazardous Air Pollutants for Primary Aluminum Reduction Plants.” Constellium Rolled Products only has secondary aluminum operations.

**4.0. Casting Department Requirements [005P104, 005P105, 005P107, 005P108, 005P109, 005P111, 005P112, 005P113, 005P114, 005P116, 005P117, 005P118, 005P119, 005P121, 005P122, 005P123, 005P124, 005P125, 005P138, 005P139, 005P140, 005P141, 005P142, 005Pxxx]**

**4.1. Limitations and Standards**

4.1.1. No person shall cause, suffer, allow or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A of 45CSR7 as specified below.

<b>Emission Unit</b>	<b>Emission Unit ID</b>	<b>Maximum Allowable 45CSR§7-4.1. PM Emission Limit (lb/hr)</b>
Induction Furnaces East and West	005P104 & 005P105	11.2
Melting Furnace DC-1	005P107	20.5
Melting Furnace DC-2	005P108	16.83
Melting Furnace DC-3	005P109	16.75
Melting Furnace DC-5	005P111	16.75
Melting Furnace DC-6	005P112	16.83
Melting Furnace DC-7	005P113	20.5
Melting Furnace DC-8	005P114	20.5
Holding Furnace 1	005P117	20.5
Holding Furnace 2	005P118	16.83
Holding Furnace 3	005P119	16.75
Holding Furnace 5	005P121	16.75
Holding Furnace 6	005P122	16.83
Holding Furnace 7	005P123	20.5
Holding Furnace 8	005P124	20.5
Paste Mixer	005P138	11.2

[45CSR§7-4.1 and Table 45-7A]

4.1.2. Mineral acids shall not be released from any type source operation or duplicate source operation or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity given below.

Emission Unit	Emission Unit ID	Pollutant	Limit (mg/dscm)
Induction Furnaces East and West	005P104 & 005P105	HCl	420
Melting Furnace DC-1	005P107	HCl	420
Melting Furnace DC-2	005P108		
Melting Furnace DC-3	005P109		
Melting Furnace DC-5	005P111		
Melting Furnace DC-6	005P112		
Melting Furnace DC-7	005P113		
Melting Furnace DC-8	005P114		
Holding Furnace 1	005P117		
Holding Furnace 2	005P118		
Holding Furnace 3	005P119		
Holding Furnace 5	005P121		
Holding Furnace 6	005P122		
Holding Furnace 7	005P123		
Holding Furnace 8	005P124		
Melting Furnace DC-9B	005P116	HCl	210
Melting Furnace DC-10A	005P139		
Melting Furnace DC-10B	005P140		
Holding Furnace 9	005P125		
Holding Furnace 10	005P141		
SNIF In-line Fluxer	005Pxxx		
Rotary Furnace	005P142	HCl	210

[45CSR13, R13-2376, 4.1.163.d; 45CSR13, R13-0383, 4.1.4; 45CSR§7-4.2 and Table 45-7B]

4.1.3. Emissions from the portion of the facility covered under R13-2376 shall not exceed the following:

Source ID	Stack ID	Description	PM	PM <sub>10</sub>	CO	NO <sub>x</sub>	SO <sub>2</sub>	VOCs	HCl
<i>Hourly Emission Limits (lbs/hr)</i>									
005P139	005S127	DC-10A	3.12	1.53	4.90	5.60	0.04	0.38	<del>35.43</del> 37.11 <sup>(1)</sup>
005P140	005S128	DC-10B	3.12	1.53	4.90	5.60	0.04	0.38	
005P141	005S126	Holding Furnace 10	0.19	0.19	1.12	0.70	0.01	0.08	
005P142	005S129	Rotary Furnace	1.27	1.27	0.99	0.88	0.01	0.01	
<u>005Pxxx</u>	<u>005Pxxx</u>	<u>SNIF In-line Fluxer</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	
<i>Annual Emission Limits (tpy)<sup>(2)</sup></i>									
005P139	005S127	DC-10A	9.53	4.67	13.19	15.17	0.12	1.02	<del>108.33</del> 113.44 <sup>(1)</sup>
005P140	005S128	DC-10B	9.53	4.67	13.19	15.17	0.12	1.02	
			19.16	9.39	21.40	24.50	0.18	1.65	
005P141	005S126	Holding Furnace 10	0.57	0.57	3.14	1.96	0.02	0.21	
005P142	005S129	Rotary Furnace	3.71	3.71	4.33	5 2.52	0.03	0.28	
<u>005Pxxx</u>	<u>005Pxxx</u>	<u>SNIF In-line Fluxer</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	

<sup>(1)</sup> Aggregate PTE is based upon maximum Subpart RRR SAPU limit of 0.40 lb HCl/(ton Al Charged) pursuant to Subpart RRR for Group 1 Furnaces and 0.04 lb HCl/(ton-Al charged) for the In-Line Fluxer.

<sup>(2)</sup> Annual limits reflect 12-month Rolling Yearly Totals.

Compliance with the hourly TSP emission limits for Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 10 (005P141), and Rotary Furnace (005P142) shall demonstrate compliance with the less stringent hourly 45CSR§7-4.1 particulate matter emission limits.

**[45CSR13, R13-2376, 4.1.1. and 4.1.1.53.c; 45CSR§7-4.1 and Table 45-7A]**

- 4.1.4. In accordance with the information filed in Permit Application R13-2376, and any amendments or revisions thereto, Melting Furnaces DC-10A(005P139) and DC-10B (005P140) shall be equipped with regenerative low-NO<sub>x</sub> burners. The remainder of the listed sources under 4.1.3. shall be equipped with standard low-NO<sub>x</sub> burners

**[45CSR13 - R13-2376, 4.1.2.]**

- 4.1.5. In accordance with the information filed in Permit Application R13-2376, and any amendments or revisions thereto, a Permanent Total Enclosure shall be installed, maintained, and operated so as to provide for capture of fugitive particulate matter emitted from the Rotary Furnace (005P142). Fugitive particulate matter captured by the Permanent Total Enclosure shall be vented to baghouse 005C108. The enclosure shall be installed, maintained, and operated so as to meet the criteria of a Permanent Total Enclosure in accordance with EPA Method 204 as set forth in 40 CFR 51, Appendix M.

**[45CSR13 - R13-2376, 4.1.3.]**

- 4.1.6. In accordance with the information filed in Permit Application R13-2376, and any amendments or revisions thereto, a lime-injected baghouse (005C105) shall be installed, maintained, and operated so as to achieve a minimum 99.00% PM control efficiency and a 95.00% HCl control efficiency from DC Holding Furnace 10 (005P141). The permittee shall operate and monitor said baghouse according to all applicable terms and conditions as set forth in 40 CFR Part 63, Subpart RRR.

**[45CSR13 - R13-2376, 4.1.4.]**

- 4.1.7. In accordance with the information filed in Permit Application R13-2376, and any amendments or revisions thereto, a lime-injected baghouse (005C108) shall be installed, maintained, and operated so as to achieve a minimum 99.00% PM control efficiency and a 95.00% HCl control efficiency from the Rotary Furnace (005P142). The permittee shall operate and monitor said baghouse according to all applicable terms and conditions as set forth in 40 CFR Part 63, Subpart RRR.

**[45CSR13 - R13-2376, 4.1.5.]**

- 4.1.8. The annual consumption of natural gas shall not exceed the limits as specified in the following table. Compliance with the annual natural gas consumption limits shall be determined using rolling yearly totals. A rolling yearly total shall mean the sum of the natural gas consumed at any given time for the previous twelve (12) consecutive months.

Source ID	Source Description	Natural Gas Consumed (ft <sup>3</sup> )
005P139, 005P140	Melting Furnaces DC-10A and DC-10B	<del>743,500,000</del> <u>600,490,196</u> <sup>(1)</sup>
005P141	Holding Furnace 10	76,862,746
005P142	Rotary Furnace	67,331,764

<sup>(1)</sup> Aggregate total of both melting furnaces.

**[45CSR13 - R13-2376, 4.1.6.]**

4.1.9. The average hourly throughput of aluminum charge through Direct Chill Complex No. 10 (Melting Furnaces DC-10A and DC-10B, Holding Furnace 10) shall not exceed 41.67 tons and the annual throughput of aluminum charge shall not exceed 255,500 tons. Compliance with the annual aluminum charge throughput limit shall be determined using a rolling yearly total. For the purposes of this permit, “average hourly throughput” shall mean the daily throughput divided by the hours of operation for that day. The daily throughput shall be the sum of aluminum charged during the previous 24 hours from the shift change nearest to midnight.

**[45CSR13 - R13-2376, 4.1.7.]**

4.1.10. The average hourly throughput of aluminum charge through the Rotary Furnace shall not exceed 5.25 tons and the annual throughput of aluminum charge shall not exceed 30,660 tons. Compliance with the annual aluminum charge throughput limit shall be determined using a rolling yearly total.

**[45CSR13 - R13-2376, 4.1.8.]**

4.1.11. The average emission rate of **TSP PM** and  $PM_{10}$  from the specified equipment, in pounds of pollutant per ton of feed/charge (lb/ton), and as measured over one batch cycle, shall not exceed the following:

Source ID	Stack ID	Source Description	TSP Limit <sup>(1)</sup> (lb/ton)	PM <sub>10</sub> Limit <sup>(1)</sup> (lb/ton)
005P139	005S127	Melting Furnace DC-10A	0.1500	0.0735
005P140	005S128	Melting Furnace DC-10B	0.1500	0.0735
005P141	005S126	Holding Furnace 10	0.0045	0.0045
005P142	005S129	Rotary Furnace	0.2422	0.2422

<sup>(1)</sup> As measured downstream from any particulate control devices.

**[45CSR13 - R13-2376, 4.1.9.]**

4.1.12. The emission rate of  $NO_x$  from the specified equipment, in pounds of pollutant per million British thermal units of heat input (lb/MMBtu), shall not exceed the following:

Source ID	Stack ID	Source Description	NO <sub>x</sub> Limit (lb/MMBtu)
005P139	005S127	Melting Furnace DC-10A	0.080
005P140	005S128	Melting Furnace DC-10B	0.080
005P141	005S126	Holding Furnace 10	0.050
005P142	005S129	Rotary Furnace	0.075

**[45CSR13 - R13-2376, 4.1.10.]**

4.1.13. a. Pursuant to 40 CFR 63, Subpart RRR, §63.1505(k)(2) and §63.1510(t)(4), the 3-day, 24-hour rolling average emission rate of HCl from DC Melting Furnaces DC-10A and DC-10B, DC Holding Furnace 10, and the Rotary Furnace, the combination of which are defined under Subpart RRR as a Secondary Aluminum Processing Unit (SAPU), shall not exceed 0.40 pound of HCl per ton of feed/charge.

The in-line fluxer shall not introduce in excess of 32.4 lb-Cl<sub>2</sub>/hr into the aluminum charge. HCl emissions generated from the use of the in-line fluxer shall be controlled by the lime-injection Baghouse (Source Identification Number 005C105) according to the requirements given under 4.1.6.

**[45CSR13, R13-2376, 4.1.11]**

4.1.14. b. In addition to the [SAPU limit contained under 4.1.13.a](#), [HCl limits as determined under 40 CFR 63, Subpart RRR, to show compliance with the acid gas emission limits given under](#) the emission rate of HCl from the specified equipment, in pounds of pollutant per ton of feed/charge (lb/ton), shall not exceed the following:

Source ID	Stack ID	Source Description	HCl Limit <sup>(1)</sup> (lb/ton)
005P139	005S127	DC Melting Furnace DC-10A	0.72
005P140	005S128	DC Melting Furnace DC-10B	0.72
005P141	005S126	Holding Furnace 10	0.095
<a href="#">005Pxxx</a>		<a href="#">In-Line Fluxer</a>	
005P142	005S129	Rotary Furnace	0.45

<sup>(1)</sup> As measured downstream from any particulate control devices.

[45CSR13 - R13-2376, 4.1.11. and 4.1.12.]

4.1.145. Emissions from Melting Furnace DC-9B (005P116), Holding Furnace 9 (005P125), 72 Inch Single Stand Cold Mill 384 (007P101), and 72 Inch Tandem Stand Cold Mill 382 (007P102) shall not exceed the following:

Unit	PM		SO <sub>2</sub>		CO		NO <sub>x</sub>		VOC		HCl	
	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
Melting Furnace DC-9B	3.20	14.02	0.03	0.13	4.04	17.66	3.6	15.77	0.27	1.16	6.8	29.79
Holding Furnace 9	0.90	3.95	0.01	0.03	0.89	3.90	1.49	6.50	0.06	0.26	2.3	10.08
Rolling Mill 384	0.84	3.68	---	---	---	---	---	---	---	---	---	---
Rolling Mill 382	1.26	5.52	---	---	---	---	---	---	---	---	---	---

Compliance with the hourly PM emission limits for Melting Furnace DC-9B (005P116), Holding Furnace 9 (005P125), 72 Inch Single Stand Cold Mill 384 (007P101), and 72 Inch Tandem Stand Cold Mill 382 (007P102) shall demonstrate compliance with the less stringent hourly 45CSR§7-4.1 particulate matter emission limits.

[45CSR13, R13-0383, 4.1.1 and 4.1.20; 45CSR§7-4.1 and Table 45-7A]

4.1.156. *Group 1 furnace.* The owner or operator of a group 1 furnace must use the following limits to determine the emission standards for a secondary aluminum processing unit (SAPU):

- a. 0.20 kg of PM per Mg (0.40 lb of PM per ton) of feed/charge from a group 1 furnace, that is not a melting/holding furnace processing only clean charge, at a secondary aluminum production facility that is a major source;
- b. 15 µg of D/F TEQ per Mg (2.1 x 10<sup>-4</sup> 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.
- c. [0.20 kg of HF per Mg \(0.40 lb or HF per ton\) of feed/charge from an uncontrolled group 1 furnace and 0.20 kg of HCl per Mg \(0.40 lb of HCl per ton\) of feed/charge or, if the furnace is equipped with an add-on air pollution control device, 10 percent of the uncontrolled HCl emissions, by weight, for a group 1 furnace at a secondary aluminum production facility that is a major source.](#)



d. 0.40 kg of PM per Mg (0.80 lb of PM per ton) of feed/charge from a group 1 melting/holding furnace processing only clean charge at a secondary aluminum production facility that is a major source.

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108) Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), Holding Furnace 10 (005P141), and Rotary Furnace (005P142)*

**[45CSR13, R13-2376, 4.1.194.a; 45CSR13, R13-0383, 4.1.5; 45CSR34; 40 CFR §§63.1505(i)(1), (i)(2), (i)(3), and (i)(4)]**

4.1.17. *In-line fluxer.* Except as provided in paragraph (j)(3) of 40 CFR §63.1505 for an in-line fluxer using no reactive flux material, the owner or operator of an in-line fluxer must use the limits in this paragraph to determine the emission standards for a SAPU.

**[40 CFR §63.1505(j)]**

a. 0.02 kg of HCl per Mg (0.04 lb of HCl per ton) of feed/charge;  
**[40 CFR §63.1505(j)(1)]**

b. 0.005 kg of PM per Mg (0.01 lb of PM per ton) of feed/charge.  
**[40 CFR §63.1505(j)(2)]**

*In-Line Fluxer (005Pxxx)*

**[45CSR34; 45CSR13, R13-2376, 4.1.14.b]**

4.1.168. *Secondary aluminum processing unit (SAPU).* The owner or operator must comply with the emission limits calculated using the equations for PM and HCl in paragraphs 4.1.168.a and 4.1.168.b for each secondary aluminum processing unit at a secondary aluminum production facility that is a major source. The owner or operator must comply with the emission limit calculated using the equation for D/F in 4.1.168.c for each secondary aluminum processing unit at a secondary aluminum production facility that is a major or area source.

a. The owner or operator must not discharge or allow to be discharged to the atmosphere any 3-day, 24-hour rolling average emissions of PM in excess of:

$$L_{cPM} = \frac{\sum_{i=1}^n (L_{tiPM} \times T_{ti})}{\sum_{i=1}^n (T_{ti})}$$

Where,

$L_{tiPM}$  = The PM emission limit for individual emission unit  $i$  in 4.1.156.a or b of this section for a group 1 furnace or in 4.1.17.b for an in-line fluxer.

$T_{ti}$  = The feed/charge rate for individual emission unit  $i$ ; and

$L_{cPM}$  = The PM emission limit for the secondary aluminum processing unit.

b. The owner or operator must not discharge or allow to be discharged to the atmosphere any 3-day, 24-hour rolling average emissions of HCl or HF in excess of:

$$L_{cHCl} = \frac{\sum_{i=1}^n (L_{tiHCl} \times T_{ti})}{\sum_{i=1}^n (T_{ti})}$$

Where,

$L_{tiHCl}$  = The HCl emission limit for individual emission unit  $i$  in 4.1.156.cd for a group 1 furnace or in 4.1.17.a for an in-line fluxer; or the HF emission limit for individual emission unit  $i$  in paragraph 4.1.16.d for an uncontrolled group 1 furnace; and

$L_{cHCl}$  = The daily HCl or HF emission limit for the secondary aluminum processing unit which is used to calculate the 3-day, 24-hour HCl or HF emission limit applicable to the SAPU.

- c. The owner or operator must not discharge or allow to be discharged to the atmosphere any 3-day, 24-hour rolling average emissions of D/F in excess of:

$$L_{cD/F} = \frac{\sum_{i=1}^n (L_{tiD/F} \times T_{ti})}{\sum_{i=1}^n (T_{ti})}$$

Where,

$L_{tiD/F}$  = The D/F emission limit for individual emission unit  $i$  in 4.1.156.bc for a group 1 furnace; and

$L_{cD/F}$  = The daily D/F emission limit for the secondary aluminum processing unit which is used to calculate the 3-day, 24-hour D/F emission limit applicable to the SAPU.

- d. The owner or operator of a SAPU at a secondary aluminum production facility that is a major source may demonstrate compliance with the emission limits of 4.1.168.a through 4.1.168.c by demonstrating that each emission unit within the SAPU is in compliance with the applicable emission limits of 4.1.156 and 4.1.17.

*SAPU consists of: Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), and Holding Furnace 10 (005P141), and In-Line Fluxer (005Pxxx)*

**[45CSR13, R13-2376, 4.1.2014.c; 45CSR13, R13-0383, 4.1.6; 45CSR34; 40 CFR §§63.1505(k)(1), (k)(2), (k)(3), and (k)(4)]**

- 4.1.179. *Operating requirements.* At all times, the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

**[45CSR34; 40 CFR §63.1506(a)(5)]**

- 4.1.1820. *Labeling.* The owner or operator must provide and maintain easily visible labels posted at each group 1 furnace, and group 2 furnace, and in-line fluxer that identifies the applicable emission limits and means of compliance, including:

- a. The type of affected source or emission unit (e.g., group 1 furnace, or group 2 furnace, [in-line fluxer](#)).
- b. 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.

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), Holding Furnace 10 (005P141), Rotary Furnace (005P142), Induction Furnace East (005P104), Induction Furnace West (005P105), Melting Furnace DC-3 (005P109), Melting Furnace DC-5 (005P111), and Melting Furnace DC-6 (005P112), and In-Line Fluxer (005Pxxx)*

**[45CSR13, R13-2376, 4.1.2115.a; 45CSR34; 40 CFR §§63.1506(b)(1) and (b)(2)]**

4.1.1921. *Capture/collection systems.* For each affected source or emission unit equipped with an add-on air pollution control device, the owner or operator must:

- a. Design and install a system for the capture and collection of emissions to meet the engineering standards for minimum exhaust rates as published by the American Conference of Governmental Industrial Hygienists in chapters 3 and 5 of “Industrial Ventilation: A Manual of Recommended Practice” (incorporated by reference in 40 CFR §63.1502);
- b. 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
- c. Operate each capture/collection system according to the procedures and requirements in the OM&M plan.

*Holding Furnace 5 (005P121), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), Holding Furnace 10 (005P141), and Rotary Furnace (005P142), and In-Line Fluxer (005Pxxx)*

**[45CSR13, R13-2376, 4.1.2215.b; 45CSR13, R13-0383, 4.1.19; 45CSR34; 40 CFR §63.1506(c)]**

4.1.202. *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:

- a. Except as provided in 4.1.202.c, 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
- b. Operate each weight measurement system or other weight determination procedure in accordance with the OM&M plan.
- c. The owner or operator may choose 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 with 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.

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), Holding Furnace 10 (005P141), and Rotary Furnace (005P142), and In-Line Fluxer (005Pxxx)*

**[45CSR13, R13-2376, ~~4.3.5.4.1.15.c.~~; 45CSR34; 40 CFR §63.1506(d)]**

4.1.23. *In-line fluxer.* The owner or operator of an in-line fluxer with emissions controlled by a lime-injected fabric filter must:

- a. If a bag leak detection system is used to meet the monitoring requirements in §63.1510,
  - i. Initiate corrective action within 1-hour of a bag leak detection system alarm and complete the 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.
- b. If a continuous opacity monitoring system is used to meet the monitoring requirements in §63.1510, initiate corrective action within 1 hour of any 6-minute average reading of 5 percent or more opacity and complete the corrective action procedures in accordance with the OM&M plan.
- c. For a continuous 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.
- d. 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.

*In-Line Fluxer (005Pxxx)*

**[45CSR13, R13-2376, 4.1.15.d.; 45CSR34; 40 CFR §63.1506(k)]**

4.1.214. *Group 1 furnace with add-on air pollution control devices.* The owner or operator of a group 1 furnace with emissions controlled by a lime-injected fabric filter must:

- a. If a bag leak detection system is used to meet the monitoring requirements in 4.2.5, the owner or operator 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.
- b. If a continuous opacity monitoring system is used to meet the monitoring requirements in §63.1510, the owner or operator must:
  - i. Initiate corrective action within 1 hour of any 6-minute average reading of 5 percent or more opacity; and
  - ii. Complete the corrective action procedures in accordance with the OM&M plan.
- bc. 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).
- cd. 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 the same or above the level established during the performance test.
- de. 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.

*Holding Furnace 5 (005P121), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), Holding Furnace 10 (005P141), and Rotary Furnace (005P142)*  
[45CSR13, R13-2376, ~~4.1.234.1.15.e~~; 45CSR34; 40 CFR §§63.1506(m)(1), (m)(3), (m)(4), and (m)(5)]

4.1.225. *Group 1 furnace without add-on air pollution control devices.* The owner or operator of a group 1 furnace (including a group 1 furnace that is part of a secondary aluminum processing unit) without add-on air pollution control devices must:

- a. 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.
- b. Operate each furnace in accordance with the work practice/pollution prevention measures documented in the OM&M plan and within the parameter values or ranges established in the OM&M plan.
- c. Operate each group 1 melting/holding furnace subject to the emission standards in §63.1505(i)(2) using only clean charge as the feedstock.

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), and Holding Furnace 6 (005P122)*  
[45CSR13, R13-2376, ~~4.1.2415.f~~; 45CSR13, R13-0383, 4.1.7; 45CSR34; 40 CFR §§63.1506(n)(1) and (n)(2)]

4.1.236. *Group 2 furnace.* The owner or operator of a new or existing group 2 furnace must:

- a. Operate each furnace using only clean charge as the feedstock.
- b. Operate each furnace using no reactive flux.

*Induction Furnace East (005P104), Induction Furnace West (005P105), Melting Furnace DC-3 (005P109), Melting Furnace DC-5 (005P111), and Melting Furnace DC-6 (005P112)*

**[45CSR34; 40 CFR §63.1506(o)]**

- 4.1.247. *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.

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), Holding Furnace 10 (005P141), Rotary Furnace (005P142), Induction Furnace East (005P104), Induction Furnace West (005P105), Melting Furnace DC-3 (005P109), Melting Furnace DC-5 (005P111), and Melting Furnace DC-6 (005P112), and In-Line Fluxer (005Pxxx)*

**[45CSR13, R13-2376, 4.1.15.g; 45CSR34; 40 CFR §63.1506(p)]**

- 4.1.258. Melting Furnace DC-9A shall not consume more than 421 mmcf of natural gas per year based on a rolling twelve month total.

**[45CSR13, R13-0383, 4.1.9]**

- 4.1.269. Melting Furnace DC-9B shall not consume more than 456 mmcf of natural gas per year based on a rolling twelve month total.

**[45CSR13, R-0383, 4.1.10]**

- 4.1.2730. Holding Furnace 9 shall not consume more than 93 mmcf of natural gas per year based on a rolling twelve month total.

**[45CSR13, R13-0383, 4.1.11]**

- 4.1.2831. Production from the two melting furnaces (DC-9A and DC-9B) shall not exceed 157,800 tons per year each based on a rolling twelve month total.

**[45CSR13, R13-0383, 4.1.12]**

- 4.1.2932. Production from the Holding Furnace 9 shall not exceed 315,600 tons per year based on a rolling twelve month total.

**[45CSR13, R13-0383, 4.1.13]**

- 4.1.303. Emissions from Holding Furnace 9 shall be controlled by Baghouse 4 (005C105). The permittee shall operate and monitor said baghouse according to all applicable terms and conditions as set forth in 40 CFR Part 63, Subpart RRR.

**[45CSR13, R13-0383, 4.1.18]**

[4.1.34. \*Applicable Rules.\* The permittee shall meet all applicable requirements, including those not specified above, as given under 45CSR7 and 40 CFR 63, Subpart RRR. Any final revisions made to the above rules will, where applicable, supercede those specifically cited in this permit. \[45CSR13, R13-2376, 4.1.17\]](#)

## 4.2. Monitoring Requirements

- 4.2.1. *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 operation, maintenance, and monitoring (OM&M) plan. 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 40 CFR Part 63, Subpart RRR. The owner or operator must comply with all of the provisions of the OM&M plan as submitted to the permitting authority, unless and until the plan is revised in accordance with the following procedures. If the permitting authority determines at any time after receipt of the OM&M plan that any revisions of the plan are necessary, to satisfy the requirements of this section or 40 CFR Part 63, Subpart RRR, the owner or operator must promptly make all necessary revisions and resubmit the revised plan. If the owner or operator determines that any other revisions of the OM&M plan are necessary such revisions will not become effective until the owner or operator submits a description of the changes and a revised plan incorporating them to the permitting authority. Each plan must contain the following information:
- a. 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.
  - b. A monitoring schedule for each affected source and emission unit.
  - c. 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 [4.1.15 and 4.1.16](#), [4.1.17](#), and [4.1.18](#).
  - d. 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 40 CFR Part 63, Subpart A.
  - e. Procedures for monitoring process and control device parameters, including procedures for annual inspections of afterburners, and if applicable, the procedures to be used for determining charge/feed (or throughput) weight if a measurement device is not used.
  - f. Corrective actions to be taken when process or operating parameters or add-on control device parameters deviate from the value or range established in 4.2.1.a, 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.

- g. 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.
- h. 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 4.2.9 for each group 1 furnace not equipped with an add-on air pollution control device.

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), Holding Furnace 10 (005P141), Rotary Furnace (005P142), Induction Furnace East (005P104), Induction Furnace West (005P105), Melting Furnace DC-3 (005P109), Melting Furnace DC-5 (005P111), and Melting Furnace DC-6 (005P112), and In-Line Fluxer (005Pxxx)*

**[45CSR13, R13-0383, 4.2.1; 45CSR13, R13-2376, 4.2.2.a.; 45CSR34; 40 CFR §63.1510(b)]**

- 4.2.2. *Labeling.* The owner or operator must inspect the labels for each group 1 furnace and, group 2 furnace, and in-line fluxer at least once per calendar month to confirm that posted labels as required by the operation standard in 4.1.1820 are intact and legible.

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), Holding Furnace 10 (005P141), Rotary Furnace (005P142), Induction Furnace East (005P104), Induction Furnace West (005P105), Melting Furnace DC-3 (005P109), Melting Furnace DC-5 (005P111), and Melting Furnace DC-6 (005P112), and In-Line Fluxer (005Pxxx)*

**[45CSR13, R13-2376, 4.3.74.2.2.b.; 45CSR34; 40 CFR §63.1510(c)]**

- 4.2.3. *Capture/collection system.* The owner or operator must:

- a. Install, operate, and maintain a capture/collection system for each affected source and emission unit equipped with an add-on air pollution control device; and
- b. Inspect each capture/collection and closed vent system at least once each calendar year to ensure that each system is operating in accordance with the operating requirements in 4.1.19 21 and record the results of each inspection.

*Holding Furnace 5 (005P121), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), Holding Furnace 10 (005P141), and Rotary Furnace (005P142), and In-Line Fluxer (005Pxxx)*

**[45CSR13, R13-2376, 4.3.84.2.2.c.; 45CSR34; 40 CFR §63.1510(d)]**

- 4.2.4. *Feed/charge weight.* The owner or operator of an affected source or emission unit subject to an emission limit in kg/Mg (lb/ton) or µg/Mg (gr/ton) of feed/charge must install, calibrate, operate, and maintain a device to measure and record the total weight of feed/charge to, or the aluminum production from, the affected source or emission unit over the same operating cycle or time period used in the performance test. Feed/charge or aluminum production within SAPUs must be measured and recorded on an emission unit-by-emission unit basis. As an alternative to a measurement device, the owner or operator may use a procedure acceptable to the applicable permitting authority to determine the total weight of feed/charge or aluminum production to the affected source or emission unit.



- a. The accuracy of the weight measurement device or procedure must be  $\pm 1$  percent of the weight being measured. The owner or operator may apply to the permitting agency for approval to use a device of alternative accuracy if the required [accuracy](#) cannot be achieved as a result of equipment layout or charging practices. A device of alternative accuracy will not be approved unless the owner or operator provides assurance through data and information that the affected source will meet the relevant emission standard.
- b. The owner or operator must verify the calibration of the weight measurement device in accordance with the schedule specified by the manufacturer, or if no calibration schedule is specified, at least once every 6 months.

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), Holding Furnace 10 (005P141), and Rotary Furnace (005P142), and In-Line Fluxer (005Pxxx)*

**[45CSR13, R13-2376, 4.3.94.2.2.d.; 45CSR34; 40 CFR §63.1510(e)]**

4.2.5. *Fabric filters and lime-injected fabric filters.* The owner or operator of an affected source or emission unit using a fabric filter or lime-injected fabric filter to comply with the requirements of 40 CFR Part 63, Subpart RRR must install, calibrate, maintain, and continuously operate a bag leak detection system as required in 4.2.5.a. through 4.2.5.j.

- a. The owner or operator must install and operate a bag leak detection system for each exhaust stack of a fabric filter.
- b. Each bag leak detection system must be installed, calibrated, operated, and maintained according to the manufacturer's operating instructions.
- c. The bag leak detection system must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.
- d. The bag leak detection system sensor must provide output of relative or absolute PM loadings.
- e. The bag leak detection system must be equipped with a device to continuously record the output signal from the sensor.
- f. The bag leak detection system must be equipped with an alarm system that will sound automatically when an increase in relative PM emissions over a preset level is detected. The alarm must be located where it is easily heard by plant operating personnel.
- g. For positive pressure fabric filter systems, a bag leak detection system must be installed in each baghouse compartment or cell. For negative pressure or induced air fabric filters, the bag leak detector must be installed downstream of the fabric filter.
- h. Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors.
- i. The baseline output must be established by adjusting the range and the averaging period of the device and establishing the alarm set points and the alarm delay time.

- j. Following initial adjustment of the system, the owner or operator must not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time except as detailed in the OM&M plan. In no case may the sensitivity be increased by more than 100 percent or decreased more than 50 percent over a 365-day period unless such adjustment follows a complete fabric filter inspection which demonstrates that the fabric filter is in good operating condition.

*Baghouse 4 (005C105), and Baghouse 5 (005C108)*

**[45CSR13, R13-2376, ~~4.3.104.2.2.e.~~; 45CSR34; 40 CFR §63.1510(f)(1)]**

4.2.6. *Fabric filter inlet temperature.* These requirements apply to the owner or operator of a group 1 furnace using a lime-injected fabric filter to comply with the requirements of 40 CFR Part 63, Subpart RRR.

- a. The owner or operator must install, calibrate, maintain, and operate a device to continuously monitor and record the temperature of the fabric filter inlet gases consistent with the requirements for continuous monitoring systems in 40 CFR Part 63, Subpart A.
- b. The temperature monitoring device must meet each of these performance and equipment specifications:
  - i. The monitoring system must record the temperature in 15-minute block averages and calculate and record the average temperature for each 3-hour block period.
  - ii. The recorder response range must include zero and 1.5 times the average temperature established according to the requirements in 4.3.12.
  - iii. The reference method must be a National Institute of Standards and Technology calibrated reference thermocouple-potentiometer system or alternate reference, subject to approval by the Administrator.

*Baghouse 4 (005C105) and Baghouse 5 (005C108)*

**[45CSR13, R13-2376, ~~4.3.114.2.2.f.~~; 45CSR34; 40 CFR §63.1510(h)]**

4.2.7. *Lime injection.* These requirements apply to the owner or operator of an affected source or emission unit using a lime-injected fabric filter to comply with the requirements of 40 CFR Part 63, Subpart RRR.

- a. The owner or operator of a continuous lime injection system must verify that lime is always free-flowing by either;
  - i. Inspecting each feed hopper or silo at least once each 8-hour period and recording the results of each inspection. If lime is found not to be free-flowing during any of the 8-hour periods, the owner or operator must increase the frequency of inspections to at least once every 4-hour period for the next 3 days. The owner or operator may return to inspections at least once every 8 hour period if corrective action results in no further blockages of lime during the 3-day period; or
  - ii. Subject to the approval of the permitting agency, installing, operating and maintaining a load cell, carrier gas/lime flow indicator, carrier gas pressure drop measurement system or other system to confirm that lime is free-flowing. If lime is found not be free-flowing, the owner or operator must promptly initiate and complete corrective action, or
  - iii. Subject to the approval of the permitting agency, installing, operating and maintaining a device to monitor the concentration of HCl at the outlet of the fabric filter. If an increase in the concentration of HCl indicates that the lime is not free-flowing, the owner or operator must promptly initiate and complete corrective action.

- b. The owner or operator of a continuous lime injection system must record the lime or feeder setting once each day of operation.
- c. An owner or operator who intermittently adds lime to a lime-injected fabric filter must obtain approval from the permitting authority for a lime addition monitoring procedure. The permitting authority will not approve a monitoring procedure unless data and information are submitted establishing that the procedure is adequate to ensure that relevant emission standards will be met on a continuous basis.
- d. At least once per month, verify that the lime injection rate in pounds per hour (lb/hr) is no less than 90 percent of the lime injection rate used to demonstrate compliance during your most recent performance test. If the monthly check of the lime injection rate is below the 90 percent, the owner or operator must repair or adjust the lime injection system to restore normal operation within 45 days. The owner or operator may request from the permitting authority an extension of up to an additional 45 days to demonstrate that the lime injection rate is no less than 90 percent of the lime injection rate used to demonstrate compliance during the most recent performance test. In the event that a lime feeder is repaired or replaced, the feeder must be calibrated, and the feed rate must be restored to the lb/hr feed rate operating limit established during the most recent performance test within 45 days. The owner or operator may request from the permitting authority an extension of up to an additional 45 days to complete the repair or replacement and establishing a new setting. The repair or replacement, and the establishment of the new feeder setting(s) must be documented in accordance with the recordkeeping requirements of 40 CFR §63.1517.

*Baghouse 4 (005C105) and Baghouse 5 (005C108)*

**[45CSR13, R13-2376, ~~4.3.124.2.2.g.~~; 45CSR34; 40 CFR §63.1510(i)]**

- 4.2.8. *Total reactive flux injection rate.* These requirements apply to the owner or operator of a group 1 furnace (with or without add-on air pollution control devices) **or in-line fluxer**. The owner or operator must:
- a. Install, calibrate, operate, and maintain a device to continuously measure and record the weight of gaseous or liquid reactive flux injected to each affected source or emission unit.
    - i. The monitoring system must record the weight for each 15-minute block period, during which reactive fluxing occurs, over the same operating cycle or time period used in the performance test.
    - ii. The accuracy of the weight measurement device must be  $\pm 1$  percent of the weight of the reactive component of the flux being measured. The owner or operator may apply to the permitting authority for permission to use a weight measurement device of alternative accuracy in cases where the reactive flux flow rates are so low as to make the use of a weight measurement device of  $\pm 1$  percent impracticable. A device of alternative accuracy will not be approved unless the owner or operator provides assurance through data and information that the affected source will meet the relevant emission standards.
    - iii. The owner or operator must verify the calibration of the weight measurement device in accordance with the schedule specified by the manufacturer, or if no calibration schedule is specified, at least once every 6 months.
  - b. Calculate and record the gaseous or liquid reactive flux injection rate (kg/Mg or lb/ton) for each operating cycle or time period used in the performance test using the procedure in 4.3.13.
  - c. Record, for each 15-minute block period during each operating cycle or time period used in the performance test during which reactive fluxing occurs, the time, weight, and type of flux for each addition of:

- i. Gaseous or liquid reactive flux other than chlorine; and
  - ii. Solid reactive flux.
- d. Calculate and record the total reactive flux injection rate for each operating cycle or time period used in the performance test using the procedure in 4.3.13. [For solid flux that is added intermittently, record the amount added for each operating cycle or time period used in the performance test using the procedures in 4.3.13.](#)
- e. The owner or operator of a group 1 furnace [or in-line fluxer](#) performing reactive fluxing may apply to the Administrator for approval of an alternative method for monitoring and recording the total reactive flux addition rate based on monitoring the weight or quantity of reactive flux per ton of feed/charge for each operating cycle or time period used in the performance test. An alternative monitoring method will not be approved unless the owner or operator provides assurance through data and information that the affected source will meet the relevant emission standards on a continuous basis.

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), Holding Furnace 10 (005P141), and Rotary Furnace (005P142), and In-Line Fluxer (005Pxxx)*

**[45CSR13, R13-2376, ~~4.3.13~~4.2.2.h.; 45CSR13, R13-0383, 4.2.2; 45CSR34; 40 CFR §63.1510(j)]**

4.2.9. *Group 1 furnace without add-on air pollution control devices.* These requirements apply to the owner or operator of a group 1 furnace that is not equipped with an add-on air pollution control device.

- a. The owner or operator must develop, in consultation with the [responsible](#) permitting authority, a written site-specific monitoring plan. The site-specific monitoring plan must be submitted to the permitting authority as part of the OM&M plan. The site-specific monitoring plan must contain sufficient procedures to ensure continuing compliance with all applicable emission limits and must demonstrate, based on documented test results, the relationship between emissions of PM, HCl, and D/F ([and HF for uncontrolled group 1 furnaces](#)), and the proposed monitoring parameters for each pollutant. Test data must establish the highest level of PM, HCl, and D/F ([and HF for uncontrolled group 1 furnaces](#)), that will be emitted from the furnace [in accordance with §63.1511\(b\)\(1\)](#). [This may be determined by conducting performance tests and monitoring operating parameters while charging the furnace with feed/charge materials containing the highest anticipated levels of oils and coatings and fluxing at the highest anticipate rate.](#) If the permitting authority determines that any revisions of the site-specific monitoring plan are necessary to meet the requirements of this section or this subpart, the owner or operator must promptly make all necessary revisions and resubmit the revised plan [to the permitting authority](#).
- i. The owner or operator of an existing affected source must submit the site-specific monitoring plan to the applicable permitting authority for review at least 6 months prior to the compliance date.
- ii. The permitting authority will review and approve or disapprove a proposed plan, or request changes to a plan, based on whether the plan contains sufficient provisions to ensure continuing compliance with applicable emission limits and demonstrates, based on documented test results, the relationship between emissions of PM, HCl, and D/F ([and HF for uncontrolled group 1 furnaces](#)) and the proposed monitoring parameters for each pollutant. Test data must establish the highest level of PM, HCl, and D/F ([and HF for uncontrolled group 1 furnaces](#)) that will be emitted from the furnace. Subject to [permitting agency approval of the OM&M plan, this may be determined by conducting performance tests and monitoring operating parameters while charging the furnace with feed/charge materials](#)

containing the highest anticipated levels of oils and coatings and fluxing at the highest anticipated rate the highest levels may be determined by conducting performance tests and monitoring operating parameters in accordance with §63.1511(b)(1).

- b. Each site-specific monitoring plan must document each work practice, equipment/design practice, pollution prevention practice, or other measure used to meet the applicable emission standards.
- c. Each site-specific monitoring plan must include provisions for unit labeling as required in 4.2.2, feed/charge weight measurement (or production weight measurement) as required in 4.2.4 and flux weight measurement as required in 4.2.8.
- d. Each site-specific monitoring plan for a melting/holding furnace subject to the clean charge emission standard in §63.1505(i)(3) must include these requirements:
  - i. The owner or operator must record the type of feed/ charge (e.g., ingot, thermally dried chips, dried scrap, etc.) for each operating cycle or time period used in the performance test; and
  - ii. The owner or operator must submit a certification of compliance with the applicable operational standard for clean charge materials in §63.1506(n)(3) for each 6-month reporting period. Each certification must contain the information in §63.1516(b)(2)(iv).
- e. If a continuous emission monitoring system is included in a site-specific monitoring plan, the plan must include provisions for the installation, operation, and maintenance of the system to provide quality-assured measurements in accordance with all applicable requirements of the general provisions in subpart A of this part.
- f. If a continuous opacity monitoring system is included in a site-specific monitoring plan, the plan must include provisions for the installation, operation, and maintenance of the system to provide quality-assured measurements in accordance with all applicable requirements of this subpart.
- d.g. If a site-specific monitoring plan includes a scrap inspection program for monitoring the scrap contaminant level of furnace feed/charge materials, the plan must include provisions for the demonstration and implementation of the program in accordance with all applicable requirements in 4.2.10.
- eh. If a site-specific monitoring plan includes a calculation method for monitoring the scrap contaminant level of furnace feed/charge materials, the plan must include provisions for the demonstration and implementation of the program in accordance with all applicable requirements in 4.2.11.

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), and Holding Furnace 6 (005P122)*

**[45CSR13, R13-0383, ~~4.2.34.2.2.i~~; 45CSR34; 40 CFR §§63.1510(o)(1), (o)(2), (o)(3), (o)(7), and (o)(8)]**

- 4.2.10. *Scrap inspection program for group 1 furnace without add-on air pollution control devices.* A scrap inspection program must include:
- a. A proven method for collecting representative samples and measuring the oil and coatings content of scrap samples;
  - b. A scrap inspector training program.

- c. An established correlation between visual inspection and physical measurement of oil and coatings content of scrap samples.
- d. Periodic physical measurements of oil and coatings content of randomly-selected scrap samples and comparison with visual inspection results;
- e. A system for assuring that only acceptable scrap is charged to an affected group 1 furnace; and
- f. Recordkeeping requirements to document conformance with plan requirements.

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), and Holding Furnace 6 (005P122)*

**[~~45CSR13, R13-2376, 4.3.14~~; 45CSR34; 40 CFR §63.1510(p)]**

- 4.2.11. *Monitoring of scrap contamination level by calculation method for group 1 furnace without add-on air pollution control devices.* The owner or operator of a group 1 furnace dedicated to processing a distinct type of furnace feed/charge composed of scrap with a uniform composition (such as rejected product from a manufacturing process for which the coating to scrap ratio can be documented) may include a program in the site-specific monitoring plan for determining, monitoring, and certifying the scrap contaminant level using a calculation method rather than a scrap inspection program. A scrap contaminant monitoring program using a calculation method must include:

- a. Procedures for the characterization and documentation of the contaminant level of the scrap prior to the performance test.
- b. Limitations on the furnace feed/charge to scrap of the same composition as that used in the performance test. If the performance test was conducted with a mixture of scrap and clean charge, limitations on the proportion of scrap in the furnace feed/charge to no greater than the proportion used during the performance test.
- c. Operating, monitoring, recordkeeping, and reporting requirements to ensure that no scrap with a contaminant level higher than that used in the performance test is charged to the furnace.

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), and Holding Furnace 6 (005P122)*

**[~~45CSR13, R13-2376, 4.3.15~~; 45CSR34; 40 CFR §63.1510(q)]**

- 4.2.12. *Group 2 furnace.* These requirements apply to the owner or operator of a new or existing group 2 furnace. The owner or operator must:

- a. Record a description of the materials charged to each furnace, including any nonreactive, non-HAP-containing/non-HAP-generating fluxing materials or agents.
- b. Submit a certification of compliance with the applicable operational standard for charge materials in 4.1.236 for each 6-month reporting period. Each certification must contain the information in 4.5.1.b.

*Induction Furnace East (005P104), Induction Furnace West (005P105), Melting Furnace DC-3 (005P109), Melting Furnace DC-5 (005P111), and Melting Furnace DC-6 (005P112)*

**[45CSR34; 40 CFR §63.1510(r)]**

4.2.13. *Site-specific requirements for secondary aluminum processing units.*

- a. An owner or operator of a secondary aluminum processing unit at a facility must include, within the OM&M plan prepared in accordance with 4.2.1 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 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 4.2.14.
- b. 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.
- c. 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 applicable permitting authority containing the information required by 4.2.13.a and obtain approval of the applicable permitting authority prior to implementing any revisions.

*SAPU consists of: Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), and Holding Furnace 10 (005P141), and In-Line Fluxer (005Pxxx)*

**[45CSR34; 40 CFR §63.1510(s)]**

- 4.2.14. *Secondary aluminum processing unit.* Except as provided in 4.2.15, the owner or operator must calculate and record the 3-day, 24-hour rolling average emissions of PM, HCl, and D/F ([and HF for uncontrolled group 1 furnaces](#)) for each secondary aluminum processing unit on a daily basis. To calculate the 3-day, 24-hour rolling average, the owner or operator must:

- a. Calculate and record the total weight of material charged to each emission unit in the secondary aluminum processing unit for each 24-hour day of operation using the feed/charge weight information required in 4.2.4. If the owner or operator chooses to comply on the basis of weight of aluminum produced by the emission unit, rather than weight of material charged to the emission unit, all performance test emissions results and all calculations must be conducted on the aluminum production weight basis.
- b. 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.
- c. 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.
- d. Compute the 24-hour daily emission rate using the following equation:

$$E_{day} = \frac{\sum_{i=1}^n (T_i \times ER_i)}{\sum_{i=1}^n T_i}$$

Where,

$E_{day}$  = The daily PM, HCl, or 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);

$ER_i$  = 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.

- e. 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).

*SAPU consists of: Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), and Holding Furnace 10 (005P141), and In-Line Fluxer (005Pxxx)*

~~[45CSR13, R13-2376, 4.3.16; 45CSR13, R13-0383, 4.2.4; 45CSR34; 40 CFR §63.1510(t)]~~

- 4.2.15. *Secondary aluminum processing unit compliance by individual emission unit demonstration.* As an alternative to the procedures of condition 4.2.14, 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.



*SAPU consists of: Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), and Holding Furnace 10 (005P141), and In-Line Fluxer (005Pxxx)*

**[~~45CSR13, R13-2376, 4.3.17~~; 45CSR13, R13-0383, 4.2.5; 45CSR34; 40 CFR §63.1510(u)]**

- 4.2.16. Induction Furnace East (005P104), Induction Furnace West (005P105), Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-3 (005P109), Melting Furnace DC-5 (005P111), Melting Furnace DC-6 (005P112), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 10 (005P141), Rotary Furnace (005P142), Melting Furnace DC-9B (005P116), and Holding Furnace 9 (005P125) shall be operated and maintained in accordance with the manufacturer's recommendations and specifications and in a manner consistent with good operating practices and shall only burn natural gas as stated in Conditions 3.1.16, 4.1.25, 4.1.26, and 4.1.27 of this permit.

**[45CSR13, R13-0383, 4.1.8; 45CSR§§30-5.1.c and 12.7]**

- 4.2.17. The permittee shall meet all applicable monitoring, source-specific record-keeping, and compliance demonstration requirements, including any not specified in this permit, as given under 45CSR7 and 40 CFR 63, Subpart RRR. Any final revisions made to the above rules will, where applicable, supersede those specifically cited in this permit.

**[45CSR13, R13-2376, 4.2.5]**

### 4.3. Testing Requirements

- 4.3.1. *Site-specific tests plan.* Prior to conducting any performance test required by 40 CFR Part 63, Subpart RRR, the owner or operator must prepare a site-specific test plan which satisfies all of the requirements, and must obtain approval of the plan pursuant to the procedures, set forth in 40 CFR §63.7(c).

**[~~45CSR13, R13-2376, 4.2.2~~; 45CSR34; 40 CFR §63.1511(a)]**

- 4.3.2. *Test methods.* The owner or operator must use the following methods in appendix A to 40 CFR Part 60 to determine compliance with the applicable emission limits or standards:

- a. Method 1 for sample and velocity traverses.
- b. Method 2 for velocity and volumetric flow rate.
- c. Method 3 for gas analysis.
- d. Method 4 for moisture content of the stack gas.
- e. Method 5 for the concentration of PM.
- f. Method 9 for visible emission observations.
- g. Method 23 for the concentration of D/F.
- h. Method 25A for the concentration of THC, as propane.
- i. Method 26A for the concentration of HCl and HF. Where a lime-injected fabric filter is used as the control device to comply with the 90 percent reduction standard, the owner or operator must measure the fabric filter inlet concentration of HCl at a point before lime is introduced to the system.

**[~~45CSR13, R13-2376, 4.2.4~~; 45CSR34; 40 CFR §63.1511(e)]**

- 4.3.3. *Alternative methods.* The owner or operator may use an alternative test method, subject to approval by the Administrator.  
**[45CSR34; 40 CFR §63.1511(d)]**
- 4.3.4. *Repeat tests.* The owner or operator of new or existing affected sources and emission units located at secondary aluminum production facilities that are major sources must conduct a performance test every 5 years following the initial performance test.  
**[45CSR34; 40 CFR §63.1511(e)]**
- 4.3.5. *Testing of representative emission units.* With the prior approval of the permitting authority, an owner or operator may utilize emission rates obtained by testing a particular type of group 1 furnace which is not controlled by any add-on control device to determine the emission rate for other units of the same type at the same facility. Such emission test results may only be considered to be representative of other units if all of the following criteria are satisfied:
- a. The tested emission unit must use feed materials and charge rates which are comparable to the emission units that it represents;
  - b. The tested emission unit must use the same type of flux materials in the same proportions as the emission units it represents;
  - c. The tested emission unit must be operated utilizing the same work practices as the emission units that it represents;
  - d. The tested emission unit must be of the same design as the emission units that it represents; and
  - e. The tested emission unit must be tested under the highest load or capacity reasonably expected to occur for any of the emission units that it represents.
  - f. All 3 separate runs of a performance test must be conducted on the same emission unit.  
**[45CSR34; 40 CFR §63.1511(f)]**
- 4.3.6. *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 conditions 4.2.1. through 4.2.15. that ensures compliance with the applicable emission limit or 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 40 CFR §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 the performance tests to establish operating parameter values for compliance monitoring provided each of the following conditions are met to the satisfaction of the applicable permitting authority:
- a. The complete emission test report(s) used as the basis of the parameter(s) is submitted.
  - b. The same test methods and procedures as required by this subpart were used in the test.
  - c. 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.

d. All process and control equipment operating parameters required to be monitored were monitored as required in 40 CFR 63, Subpart RRR and documented in the test report.

~~[45CSR13, R13-2376, 4.2.5; 45CSR34; 40 CFR §63.1511(g)]~~

4.3.7. *Testing of commonly-ducted units within a secondary aluminum processing unit.* When group 1 furnaces ~~and/or in-line fluxers~~ are included in a single existing SAPU or new SAPU, and the emissions from more than one emission unit within that existing SAPU or new SAPU are manifolded to a single control device, compliance for all units within the SAPU is demonstrated if the total measured emissions from all controlled and uncontrolled units in the SAPU do not exceed the emission limits calculated for that SAPU based on the applicable equation in 4.1.168.

~~[45CSR34; 40 CFR §63.1511(h)]~~

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

a. 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).

b. The owner or operator may choose to determine the rate of reactive flux addition to the group 1 furnace and assume, for the purposes of demonstrating compliance with the SAPU emission limit, that all reactive flux added to the group 1 furnace is emitted. Under these circumstances, the owner or operator is not required to conduct an emission test for HCl.

*Holding Furnace 5 (005P121), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), Holding Furnace 10 (005P141), and Rotary Furnace (005P142)*

~~[45CSR13, R13-2376, 4.2.6; 45CSR13, R13-0383, 4.3.3; 45CSR34; 40 CFR §§63.1512(d)(1) and (d)(3)]~~

4.3.9. *Group 1 furnace (including melting holding furnaces) without add-on air pollution control devices.* In the site-specific monitoring plan required by condition 4.2.9, the owner or operator of a group 1 furnace (including a melting/holding furnaces) without add-on air pollution control devices must include data and information demonstrating compliance with the applicable emission limits.

a. If the group 1 furnace processes other than clean charge material, the owner or operator must conduct emission tests to measure emissions of PM, HCl, HF, and D/F at the furnace exhaust outlet.

b. The owner or operator may choose to determine the rate of reactive flux addition to the group 1 furnace and assume, for the purposes of demonstrating compliance with the SAPU emission limit, that all chlorine contained in reactive flux added to the group 1 furnace is emitted as HCl and HF. Under these circumstances, the owner or operator is not required to conduct an emission test for HCl or HF.

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), and Holding Furnace 6 (005P122)*

~~[45CSR13, R13-2376, 4.2.7; 45CSR13, R13-0383, 4.3.2; 45CSR34; 40 CFR §§63.1512(e), (e)(1), and (e)(3)]~~

4.3.10. *Secondary aluminum processing unit.* The owner or operator must conduct performance tests as described in 4.3.10.a The results of the performance tests are used to establish emission rates in lb/ton of feed/charge for PM, and 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 4.2.14. A performance test is required for:

- a. 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 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).
  - iii. [Each in-line fluxer to measure emissions of PM and HCl.](#)

*SAPU consists of: Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), and Holding Furnace 10 (005P141), and In-Line Fluxer (005Pxxx)*

**[45CSR13, R13-2376, 4.2.8; 45CSR34; 40 CFR §§63.1512(j), and (j)(2), and (j)(3)]**

- 4.3.11. *Feed/charge weight measurement.* During the emission tests(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 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.

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), Holding Furnace 10 (005P141), and Rotary Furnace (005P142), and In-Line Fluxer (005Pxxx)*

**[45CSR13, R13-2376, 4.2.9; 45CSR34; 40 CFR §63.1512(k)]**

- 4.3.12. *Inlet gas temperature.* The owner or operator of 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.

- a. 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;
- b. Determine and record the 15-minute block average temperatures for the 3 test runs; and
- c. Determine and record the 3-hour block average of the recorded temperature measurements for the 3 test runs.

*Baghouse 4 (005C105) and Baghouse 5 (005C108)*

**[45CSR34; 40 CFR §63.1512(n)]**

4.3.13. *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.

- a. 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;
- b. Record the identity, composition, and total weight of each addition of solid reactive flux for the 3 test runs;
- c. Determine the total reactive chlorine flux, 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 the following equation:

$$W_t = F_1W_1 + F_2W_2$$

Where,

$W_t$  = Total chlorine or fluorine usage, by weight;

$F_1$  = Fraction of gaseous or liquid flux that is chlorine or fluorine ;

$W_1$  = Weight of reactive flux gas injected;

$F_2$  = 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

$W_2$  = Weight of solid reactive flux;

- d. Divide the weight of total chlorine or fluorine usage ( $W_t$ ) for the 3 test runs by the recorded measurement of the total weight of feed for the 3 test runs; and
- e. 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 applicable permitting authority.

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), Holding Furnace 10 (005P141), and Rotary Furnace (005P142)), and In-Line Fluxer (005Pxxx)*

**[45CSR13, R13-2376, 4.2.10; 45CSR34; 40 CFR §63.1512(o)]**

4.3.14. *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.

- a. For continuous lime injection systems, ensure that lime in the feed hopper or silo is free-flowing at all times; and
- b. 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.

*Baghouse 4 (005C105) and Baghouse 5 (005C108)*

**[45CSR13, R13-2376, 4.2.11; 45CSR34; 40 CFR §63.1512(p)]**

4.3.15. *PM, HCl, HF, and D/F emission limits.*

- a. Use the following equation to determine compliance with an emission limit for PM or, HCl or HF:

$$E = \frac{C \times Q \times K_1}{P}$$

Where: E = Emission rate of PM or, HCl or HF, kg/Mg (lb/ton) of feed;  
C = Concentration of PM or, HCl or HF, (g/dscm) (gr/dscf);  
Q = Volumetric flow rate of exhaust gases, dscm/hr (dscf/hr);  
K<sub>1</sub> = Conversion factor, 1 kg/1,000 g (1 lb/7,000 gr); and  
P = Production rate, Mg/hr (ton/hr).

- b. Use the following equation to determine compliance with an emission limit for D/F:

$$E = \frac{C \times Q}{P}$$

Where:  
E = Emission rate of D/F, µg/Mg (gr/ton) of feed;  
C = Concentration of D/F, µg/dscm (gr/dscf);  
Q = Volumetric flow rate of exhaust gases, dscm/hr (dscf/hr); and  
P = Production rate, Mg/hr (ton/hr).

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), Holding Furnace 10 (005P141), and Rotary Furnace (005P142), and In-Line Fluxer (005Pxxx)*

**[45CSR34; 40 CFR §63.1513(b)]**

- 4.3.16. *HCl percent reduction standard.* Use the following equation to determine compliance with an HCl percent reduction standard:

$$\% R = \frac{L_i - L_o}{L_i} \times 100$$

Where,  
% R = Percent reduction of the control device;  
L<sub>i</sub> = Inlet loading of pollutant, kg/Mg (lb/ton); and  
L<sub>o</sub> = Outlet loading of pollutant, kg/Mg (lb/ton).

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), Holding Furnace 10 (005P141), and Rotary Furnace (005P142)), and In-Line Fluxer (005Pxxx)*

**[45CSR34; 40 CFR §63.1513(c)]**

- 4.3.17. *Conversion of D/F measurements to TEQ units.* To convert D/F measurements to TEQ units, the owner or operator must use the procedures and equations in “Interim Procedures for Estimating Risks Associated with

Exposures to Mixtures of Chlorinated Dibenzo-p-Dioxins and -Dibenzofurans (CDDs and CDFs) and 1989 Update” (EPA-625/3-89-016), incorporated by reference see 40 CFR §63.14.

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), Holding Furnace 10 (005P141), and Rotary Furnace (005P142)*

**[45CSR34; 40 CFR §63.1513(d)]**

4.3.18. *Secondary aluminum processing unit.* Use the procedures in 4.3.18.a, 4.3.18.b, and 4.3.18.c or the procedure in 4.3.18.d to determine compliance with emission limits for a secondary aluminum processing unit.

- a. Use the following equation to compute the mass-weighted PM emissions for a secondary aluminum processing unit. Compliance is achieved if the mass-weighted emissions for the secondary aluminum processing unit ( $E_{cPM}$ ) is less than or equal to the emission limit for the secondary aluminum processing unit ( $L_{cPM}$ ) calculated using the equation 4.1.168.a.

$$E_{cPM} = \frac{\sum_{i=1}^n (E_{tiPM} \times T_{ti})}{\sum_{i=1}^n T_{ti}}$$

Where,

$E_{cPM}$  = The mass-weighted PM emissions for the secondary aluminum processing unit;

$E_{tiPM}$  = Measured PM emissions for individual emission unit  $i$ ;

$T_{ti}$  = The average feed rate for individual emission unit  $i$  during the operating cycle or performance test period, [or the sum of the average feed rates for all emission units in the group of co-controlled emission units  \$i\$](#) ; and

$n$  = The number of emission units, [and groups of co-controlled emission units](#) in the secondary aluminum processing unit.

- b. Use the following equation to compute the aluminum mass-weighted HCl [or HF](#) emissions for the secondary aluminum processing unit. Compliance is achieved if the mass-weighted emissions for the secondary aluminum processing unit ( $E_{cHCl/HF}$ ) is less than or equal to the emission limit for the secondary aluminum processing unit ( $L_{cHCl/HF}$ ) calculated using the equation in 4.1.168.b.

$$E_{cHCl} = \frac{\sum_{i=1}^n (E_{tiHCl / HF} \times T_{ti})}{\sum_{i=1}^n (T_{ti})}$$

Where,

$E_{cHCl/HF}$  = The mass-weighted HCl [or HF](#) emissions for the secondary aluminum processing unit; and

$E_{tiHCl/HF}$  = Measured HCl [or HF](#) emissions for individual emission unit, [or group of co-controlled emission units  \$i\$](#) .

- c. Use the following equation to compute the aluminum mass-weighted D/F emissions for the secondary aluminum processing unit. Compliance is achieved if the mass-weighted emissions for the secondary aluminum processing unit is less than or equal to the emission limit for the secondary aluminum processing unit ( $L_{cD/F}$ ) calculated using the equation 4.1.168.c.

$$E_{cD/F} = \frac{\sum_{i=1}^n (E_{tiD/F} \times T_{ti})}{\sum_{i=1}^n (T_{ti})}$$

Where,

$E_{cD/F}$  = The mass-weighted D/F emissions for the secondary aluminum processing unit; and

$E_{tiD/F}$  = Measured D/F emissions for individual emission unit, or group of co-controlled emission units i.

- d. As an alternative to using the equations in 4.3.18.a, 4.3.18.b, and 4.3.18.c, the owner or operator may demonstrate compliance for a secondary aluminum processing unit by demonstrating that each existing group 1 furnace is in compliance with the emission limits for a new group 1 furnace in 4.1.156 and that each existing in-line fluxer is in compliance with the emission limits for a new in-line fluxer in 4.1.17.

*SAPU consists of: Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), and Holding Furnace 10 (005P141), and In-Line Fluxer (005Pxxx)*

**[45CSR34; 40 CFR §63.1513(e)]**

- 4.3.19. ~~Pursuant to 40 CFR §63.1511, the permittee shall conduct, or have conducted, performance tests to show compliance with applicable requirements contained therein. Tests required under 40 CFR 63, Subpart RRR shall be conducted in accordance with all applicable requirements as specified therein:~~

~~At such reasonable time(s) as the Secretary may designate, in accordance with the provisions of 3.3 of this permit, the permittee shall conduct or have conducted test(s) to determine compliance with the emission limitations established in this permit and/or applicable regulations.~~

~~**[45CSR13, R13-2376, 4.23.1]**~~

- 4.3.20. The permittee shall meet all applicable performance testing requirements, including any not specified in this permit, as given under 45CSR7 and 40 CFR 63, Subpart RRR. Any final revisions made to the above rules will, where applicable, supercede those specifically cited in this permit

**[45CSR13, R13-2376, 4.3.2]**

- 4.3.21. *In-line fluxer.*

- a. The owner or operator of an in-line fluxer that uses reactive flux materials must conduct a performance test to measure emissions of HCl and PM or otherwise demonstrate compliance in accordance with paragraph 4.3.21 of this section. If the in-line fluxer is equipped with an add-on control device, the emissions must be measured at the outlet of the control device.
- b. The owner or operator may choose to limit the rate at which reactive flux is added to an in-line fluxer and assume, for the purposes of demonstrating compliance with the SAPU emission limit, that all chlorine in the reactive flux added to the in-line fluxer is emitted as HCl. Under these circumstances, the owner or operator is not required to conduct an emission test for HCl. If the owner or operator of any in-line flux



box that has no ventilation ductwork manifolded to any outlet or emission control device chooses to demonstrate compliance with the emission limits for HCl by limiting use of reactive flux and assuming that all chlorine in the flux is emitted as HCl, compliance with the HCl limit shall also constitute compliance with the emission limit for PM and no separate emission test for PM is required. In this case, the owner or operator of the unvented in-line flux box must use the maximum permissible PM emission rate for the in-line flux boxes when determining the total emissions for any SAPU which includes the flux box.

*In-Line Fluxer (005Pxxx)*

**[45CSR34; 40 CFR §63.1513(h)]**

#### 4.4. Record keeping Requirements

4.4.1. For the purpose of demonstrating compliance with the 45CSR§7-4.1 hourly particulate matter emission limits specified in Condition 4.1.1 for Induction Furnaces East and West (005P104, 005P105), Melting Furnaces DC-1, DC-2, DC-3, DC-5, DC-6, DC-7, and DC-8 (0005P107, 005P108, 005P109, 005P111, 005P112, 005P113, 005P114), and Holding Furnaces 1, 2, 3, 5, 6, 7, and 8 (005P117, 005P118, 005P119, 005P121, 005P122, 005P123, 005P124), the permittee shall maintain records of the amount of natural gas consumed on a monthly basis and the daily and average hourly charge/feed rates for each furnace. The permittee shall use the charge/feed rates and natural gas records along with stack test data, emission factors, or engineering calculations previously approved by the DAQ, to calculate the hourly particulate matter emission rates. The natural gas and feed/charge records along with the basis for the emission calculations (e.g. stack tests, emission factors, engineering calculations) shall be maintained in accordance with condition 3.4.2.

**[45CSR§30-5.1.c]**

4.4.2. For the purposes of determining compliance with the maximum charge/feed rates and natural gas combustion limits as set forth in Conditions 4.1.8, 4.1.9, and 4.1.10, the permittee shall maintain certified daily and monthly records of the following: the amount of natural gas consumed on a monthly basis by each affected source and the daily and average hourly charge/feed rates of DC-10 (005P139, 005P140, and 005P141) and the Rotary Furnace (005P142). **Such records shall be retained by the permittee for at least five (5) years. Certified records shall be made available to the Director or his/her duly authorized representative upon request.**

The monthly natural gas usage records shall be used to calculate a 12-month rolling total natural gas usage rate in order to demonstrate compliance with the 4.1.9 annual natural gas limit. To demonstrate compliance with the PM, PM<sub>10</sub>, CO, NO<sub>x</sub>, SO<sub>2</sub>, VOC, and HCl hourly and annual emission limits in Condition 4.1.3, the permittee shall use the charge/feed rates and natural gas records along with stack test data, emission factors, or engineering calculations previously approved by the DAQ, to calculate hourly and 12-month rolling total emissions. The natural gas and feed/charge records along with the basis for the emission calculations (e.g. stack tests, emission factors, engineering calculations) shall be maintained in accordance with Condition 3.4.2.

**[45CSR13, R13-2376, ~~4.3.44.2.1.~~; 45CSR§30-5.1.c]**

4.4.3. For the purpose of determining compliance with the hourly and annual PM, HCl, SO<sub>2</sub>, CO, NO<sub>x</sub>, and VOC emission limits specified in Condition 4.1.145 and the natural gas consumption and production limits specified in conditions 4.1.258, 4.1.269, 4.1.2730, 4.1.2831, and 4.1.2932 for the Melting Furnace DC-9B (005P116), and Holding Furnace 9 (005P125), the permittee shall maintain records for each affected source of the amount of natural gas combusted on a monthly basis and twelve month rolling total; the daily and average hourly feed/charge rates; and the twelve month rolling total production rates. The permittee shall use the feed/charge rates and natural gas records along with stack test data, emission factors, or engineering calculations previously approved by the DAQ to calculate hourly and annual emission rates of PM, HCl, SO<sub>2</sub>, CO, NO<sub>x</sub>, and VOC. The natural gas and feed/charge records along with the basis for the emission calculations (e.g. stack tests, emission factors, engineering calculations) shall be maintained in accordance with condition 3.4.2.

**[45CSR13, R13-0383, 4.2.6; 45CSR§30-5.1.c]**

- 4.4.4. Design information on the PTE from the Rotary Furnace (005P142) shall be maintained at the facility and the negative pressure in the PTE shall be monitored and recorded daily. In addition, negative pressure readings on the PTE shall be maintained for at least one year.

**[45CSR§30-5.1.c]**

- 4.4.5. As required by 40 CFR §63.10(b), the owner or operator shall maintain files of all information (including all reports and notifications) required by the general provisions and 40 CFR Part 63, Subpart RRR.
- a. 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.
  - b. The owner or operator may retain records on microfilm, computer disks, magnetic tape, or microfiche; and
  - c. The owner or operator may report required information on paper or on a labeled computer disk using commonly available and EPA-compatible computer software.

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), Holding Furnace 10 (005P141), Rotary Furnace (005P142), Induction Furnace East (005P104), Induction Furnace West (005P105), Melting Furnace DC-3 (005P109), Melting Furnace DC-5 (005P111), and Melting Furnace DC-6 (005P112), and In-Line Fluxer (005Pxxx)*

**[45CSR34; 40 CFR §63.1517(a)]**

- 4.4.6. In addition to the general records required by 40 CFR §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:

- a. 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.
- b. For each 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 of +14°C (+25°F), with a brief explanation of the cause of the excursion and the corrective action taken.
- c. 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 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.](#)
- d. For each group 1 furnace (with or without add-on air pollution control devices) [or in-line fluxer](#), records of the 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.
  - e. For each continuous monitoring system, records required by 40 CFR §63.10(c).
  - f. 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.
  - g. Approved site-specific monitoring plan for a group 1 furnace without add-on air pollution control devices with records documenting conformance with the plan.
  - h. Records of all charge materials and fluxing materials or agents for a group 2 furnace.
  - i. Records of monthly inspections for proper unit labeling for each affected source and emission unit subject to labeling requirements.
  - j. Records of annual inspections of emission capture/collection and closed vent systems.
  - k. Records for any approved alternative monitoring or test procedure.
  - l. Current copy of all required plans, including any revisions, with records documenting conformance with the applicable plan, including:
    - i. OM&M plan; and
    - ii. Site-specific secondary aluminum process unit emission plan (if applicable)
  - m. 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.
  - n. 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 condition 4.1.179, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
- o. 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 i. or ii. below.
  - 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 condition 4.5.1.b. 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.

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), Holding Furnace 10 (005P141), Rotary Furnace (005P142), Induction Furnace East (005P104), Induction Furnace West (005P105), Melting Furnace DC-3 (005P109), Melting Furnace DC-5 (005P111), and Melting Furnace DC-6 (005P112), and In-Line Fluxer (005Pxxx)*

**[45CSR34; 40 CFR §§63.1517(b)(1), (b)(1)(i), (b)(3), (b)(4), (b)(4)(i), (b)(4)(ii), (b)(5), (b)(6), (b)(7), (b)(8), (b)(12), (b)(13), (b)(14), (b)(15), (b)(16), (b)(17), (b)(18), (b)(19)]**

4.4.7. The permittee shall meet all applicable record-keeping requirements, including any not specified in this permit, as given under 45CSR7 and 40 CFR 63, Subpart RRR. Any final revisions made to the above rules will, where applicable, supercede those specifically cited in this permit. [45CSR13, R13-2376, 4.4.4.]

#### 4.5. Reporting Requirements

- 4.5.1. *Excess emissions/summary report.* The owner or operator must submit semiannual reports according to the requirements in 40 CFR §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 40 CFR §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.

- a. 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. An excursion of a compliance process or operating parameter value or range (e.g., lime injection rate or screw feeder setting, total reactive chlorine flux injection rate, fabric filter inlet temperature, definition of acceptable scrap, or other approved operating parameter)
  - iii. An affected source (including an emission unit in a secondary aluminum processing unit) was not operated according to the requirements.
  - iv. A deviation from the 3-day, 24-hour rolling average emission limit for a secondary aluminum processing unit.
- b. Each report must include the following certification for each group 2 furnace: “Only clean charge materials were processed in any group 2 furnace during this reporting period, and no fluxing was performed or all fluxing performed was conducted using only nonreactive, non-HAP-containing/non-HAP-generating fluxing gases or agents, except for cover fluxes, during this reporting period.”
- c. 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.

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), Holding Furnace 10 (005P141), Rotary Furnace (005P142), Induction Furnace East (005P104), Induction Furnace West (005P105), Melting Furnace DC-3 (005P109), Melting Furnace DC-5 (005P111), and Melting Furnace DC-6 (005P112), and In-Line Fluxer (005Pxxx)*

**[45CSR13, R13-0383, 4.5.2; 45CSR34; 40 CFR §§63.1516(b), (b)(1), (b)(1)(i), (b)(1)(iv), (b)(1)(vi), (b)(1)(vii), (b)(2)(v), (b)(3)]**

- 4.5.2. *Annual compliance certifications.* For the purpose of annual certifications of compliance required by 40 CFR part 70 or 71, the owner or operator must certify continuing compliance based upon, but not limited to, the following conditions:

- a. Any period of excess emissions, as defined in 4.5.1.a, that occurred during the year were reported as required by 40 CFR Part 63, Subpart RRR; and
- b. All monitoring, recordkeeping, and reporting requirements were met during the year.

*Melting Furnace DC-1 (005P107), Melting Furnace DC-2 (005P108), Melting Furnace DC-7 (005P113), Melting Furnace DC-8 (005P114), Melting Furnace DC-9B (005P116), Melting Furnace DC-10A (005P139), Melting Furnace DC-10B (005P140), Holding Furnace 1 (005P117), Holding Furnace 2 (005P118), Holding Furnace 3 (005P119), Holding Furnace 5 (005P121), Holding Furnace 6 (005P122), Holding Furnace 7 (005P123), Holding Furnace 8 (005P124), Holding Furnace 9 (005P125), Holding Furnace 10 (005P141), Rotary Furnace (005P142), Induction Furnace East (005P104), Induction Furnace West (005P105), Melting*

*Furnace DC-3 (005P109), Melting Furnace DC-5 (005P111), and Melting Furnace DC-6 (005P112), and In-Line Fluxer (005Pxxx)*

**[45CSR34; 40 CFR §63.1516(c)]**

- 4.5.3. 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 condition 4.1.179.

**[45CSR34; 40 CFR §63.1516(d)]**

- 4.5.4. *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 40 CFR §63.1515(b)(6) as part of the notification of compliance status report to document conformance with the specifications and requirements in section 4.2.5.

**[45CSR13, R13-2376, 4.4.1; 45CSR34; 40 CFR §63.1512(q)]**

- 4.5.5. *Labeling.* The owner or operator of each group 1 furnace and group 2 furnace must submit the information described in 40 CFR §63.1515(b)(3) as part of the notification of compliance status report to document conformance with the operational standard in condition 4.1.1820.

**[45CSR13, R13-2376, 4.4.2; 45CSR34; 40 CFR §63.1512(r)]**

- 4.5.6. *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 40 CFR §63.1515(b)(2) as part of the notification of compliance status report to document conformance with the operational standard in condition 4.1.1921.

**[45CSR13, R13-2376, 4.4.3; 45CSR34; 40 CFR §63.1512(s)]**

- 4.5.7. [The permittee shall meet all applicable reporting requirements, including any not specified in this permit, as given under 45CSR7 and 40 CFR 63, Subpart RRR. Any final revisions made to the above rules will, where applicable, supersede those specifically cited in this permit.](#)

**[45CSR13, R13-2376, 4.5.1]**

## **4.6. Compliance Plan**

- 4.6.1. None.

**5.0. Hot Line Requirements [006P102, 006P105, 006P107, 006P109, 006P110, 006P113, 006P119, 006P120]**

**5.1. Limitations and Standards**

5.1.1. No person shall cause, suffer, allow or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A of 45CSR7 as specified below.

Emission Unit	Emission Unit ID	Maximum Allowable 45CSR§7-4.1 Particulate Matter Emission Limit (lb/hr)
27 Heat Soaking Pits 337	006P105	176
168 Inch Hot Mill 351	006P107	38.2
4 Reheat Furnaces	006P109	10
110 Inch Hot Mill 355	006P110	38.2
5 Stand Hot Mill 361	006P113	38.2

[45CSR§7-4.1 and Table 45-7A]

5.1.2. The amount of natural gas burned as a fuel for the Ingot Pusher (006P119) shall not exceed 45,000 standard cubic feet per hour (scfh) or 250,696,379 standard cubic feet per year (scf/yr) for twelve (12) consecutive months.

[45CSR13, R13-2102, A.1]

5.1.3. Emissions from the Ingot Pusher Furnace (006P119) shall not exceed the following:

Pollutant	lb/hr	TPY
Carbon Monoxide (CO)	1.80	5.02
Nitrogen Oxides (NO <sub>x</sub> )	7.18	20.00
Sulfur Dioxide (SO <sub>2</sub> )	0.03	0.10
Total PM	0.71	1.97
VOCs	0.14	0.38

Compliance with the hourly Total PM emission limit for the Ingot Pusher Furnace (006P119) shall demonstrate compliance with the less stringent hourly 45CSR§7-4.1 particulate matter emission limit.

[45CSR13, R13-2102, A.2 and B.3; 45CSR§7-4.1 and Table 45-7A]

5.1.4. Emissions from the portion of the facility covered under R13-2376 shall not exceed the following:

Source ID	Stack ID	Description	PM	PM <sub>10</sub>	CO	NO <sub>x</sub>	SO <sub>2</sub>	VOCs	HCl
<i>Hourly Emission Limits (lbs/hr)</i>									
006P120	006S128	Preheat Furnace	0.30	0.30	3.29	3.80	0.02	0.22	---
006P102	006S102	Ingot Pusher Furnace	0.41	0.41	4.00	6.00	0.03	0.30	---

Source ID	Stack ID	Description	PM	PM <sub>10</sub>	CO	NO <sub>x</sub>	SO <sub>2</sub>	VOCs	HCl
<i>Annual Emission Limits (tpy)<sup>(1)</sup></i>									
006P120	006S128	Preheat Furnace	0.16	0.16	1.76	2.04	0.01	0.11	---
006P102	006S102	Ingot Pusher Furnace	1.63	1.63	16.51	25.01	0.13	1.18	---

<sup>(1)</sup>Annual limits reflect 12-month Rolling Yearly Totals.

Compliance with the hourly PM emission limit for the Preheat Furnace (006P120) and Ingot Pusher Furnace (006P102) shall demonstrate compliance with the less stringent hourly 45CSR§7-4.1 particulate matter emission limits.

**[45CSR13, R13-2376, 4.1.1 and 4.1.153.c; 45CSR§7-4.1 and Table 45-7A]**

- 5.1.5. The annual consumption of natural gas shall not exceed the limits as specified in the following table. Compliance with the annual natural gas consumption limits shall be determined using rolling yearly totals. A rolling yearly total shall mean the sum of the natural gas consumed at any given time for the previous twelve (12) consecutive months.;

Source ID	Source Description	Natural Gas Consumed (ft <sup>3</sup> )
006P120	Preheat Furnace	<del>42,000,000</del> <u>120,000,000</u>
006P102	Ingot Pusher Furnace	428,678,363

**[45CSR13, R13-2376, 4.1.6]**

- 5.1.6. The emission rate of NO<sub>x</sub> from the Preheat Furnace (006P120) shall not exceed 0.097 pounds of pollutant per MMBtu of heat input (lb/MMBtu).

**[45CSR13, R13-2376, 4.1.10]**

## 5.2. Monitoring Requirements

- 5.2.1. Compliance with the hourly emissions limitations for the Ingot Pusher (006P119) shall be determined based on a 24 hour rolling average.  
**[45CSR13, R13-2102, A.5]**
- 5.2.2. The permittee shall maintain an efficient combustion process in the Ingot Pusher (006P119) by conducting periodic maintenance checks as per the manufacturer's recommendations.  
**[45CSR13, R13-2102, A.6]**
- 5.2.3. The 27 Heat Soaking Pits 337 (006P105), Reheat Furnaces (006P109), Ingot Pusher Furnace (006P119), and Preheat Furnace (006P120) shall be operated and maintained in accordance with the manufacturer's recommendations and specifications and in a manner consistent with good operating practices and shall only burn natural gas as stated in condition 3.1.16 of this permit.  
**[45CSR§§30-5.1.c and 12.7]**

## 5.3. Testing Requirements

- 5.3.1. None.



#### **5.4. Record keeping Requirements**

- 5.4.1. Compliance with the 45CSR§7-4.1 hourly particulate matter emission limit specified in condition 5.1.1 for the 27 Heat Soaking Pits 337 (006P105) and 4 Reheat Furnaces (006P109) shall be demonstrated by maintaining records of the amount of natural gas consumed on a monthly basis and calculating an hourly particulate matter emission rate for the month based on the monthly natural gas consumption, the number of hours in the month, and AP-42 emission factors. The monthly natural gas usage records shall be maintained in accordance with condition 3.4.2.

**[45CSR§30-5.1.c]**

- 5.4.2. For the purpose of determining compliance with the hourly and annual natural gas usage limits specified in condition 5.1.2 and the hourly and annual CO, NO<sub>x</sub>, SO<sub>2</sub>, Total PM, and VOC emission limits specified in condition 5.1.3 for the Ingot Pusher (006P119), the permittee shall monitor and maintain a certified record of the amount of natural gas burned, in accordance with the monthly natural gas usage form located in Appendix A. These records shall be properly maintained on site for a period of not less than five (5) years and be made available to the Director, or his or her designated representative, upon request.

The monthly natural gas usage records shall be used to calculate an hourly and annual natural gas usage rate to demonstrate compliance with the 5.1.2 hourly and annual limits. The hourly usage rate shall be calculated by dividing the monthly natural gas usage by the hours of operation for the month and the annual usage rate shall be calculated based on a 12-month rolling total. To demonstrate compliance with the hourly and annual emission limits in condition 5.1.3, these hourly and annual natural gas usage rates shall be used along with stack test data, emission factors, or engineering calculations previously approved by the DAQ, to calculate CO, NO<sub>x</sub>, SO<sub>2</sub>, Total PM, and VOC hourly and annual emissions.

**[45CSR13, R13-2102, B.2; 45CSR§30-5.1.c]**

- 5.4.3. For the purpose of determining compliance with the annual natural gas consumption limits specified in condition 5.1.5 and the hourly and annual PM, PM<sub>10</sub>, CO, NO<sub>x</sub>, SO<sub>2</sub>, and VOC emission limits specified in condition 5.1.4 for the Preheat Furnace (006P120) and Ingot Pusher (006P102), the permittee shall maintain certified daily and monthly records of the amount of natural gas consumed on a monthly basis by each affected source. Such records shall be retained by the permittee for at least five (5) years. Certified records shall be made available to the Director or his/her duly authorized representative upon request.

The monthly natural gas usage records shall be used to calculate a 12-month rolling total natural gas usage rate in order to demonstrate compliance with the 5.1.5 annual limit. To demonstrate compliance with the hourly and annual emission limits in Condition 5.1.4, the permittee shall calculate an hourly natural gas usage rate by dividing the monthly natural gas usage by the hours of operation for the month and then use the hourly and 12-month rolling total natural gas usage rates along with stack test data, emission factors, or engineering calculations previously approved by the DAQ, to calculate PM, PM<sub>10</sub>, CO, NO<sub>x</sub>, SO<sub>2</sub>, and VOC hourly and annual emissions.

**[45CSR13, R13-2376, 4.3.4; 45CSR§30-5.1.c]**

#### **5.5. Reporting Requirements**

- 5.5.1. None.

#### **5.6. Compliance Plan**

- 5.6.1. None.

## 6.0. Cold Line Rolling Requirements [007P101, 007P102, 007P103, 007P105, 007P107]

### 6.1. Limitations and Standards

- 6.1.1. No person shall cause, suffer, allow or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A of 45CSR7 as specified below.

Emission Unit	Emission Unit ID	Maximum Allowable 45CSR§7-4.1 Particulate Matter Emission Limit (lb/hr)
130 Inch Single Stand Cold Mill 386	007P103	38.2
5 Stand Cold Mill 381	007P105	33.8
Cold Roll Annealing Furnaces	007P107	36.36

[45CSR§7-4.1 and Table 45-7A]

- 6.1.2. Particulate emissions from 72 Inch Single Stand Cold Mill 384 (007P101) shall be controlled by Demister 007C101. The permittee shall maintain proper operation of the Demister at all times that the equipment is in operation. The permittee shall also perform visible emission checks in accordance with Condition 3.2.1.  
[45CSR13, R13-0383, 4.1.16]
- 6.1.3. Particulate emissions from 72 Inch Tandem Stand Cold Mill 382 (007P102) shall be controlled by Demister 007C102. The permittee shall maintain proper operation of the Demister at all times that the equipment is in operation. The permittee shall also perform visible emission checks in accordance with Condition 3.2.1.  
[45CSR13, R13-0383, 4.1.17]
- 6.1.4. Hourly and annual particulate matter emission limits for the 72 Inch Single Stand Cold Mill 384 (007P101) and the 72 Inch Tandem Stand Cold Mill 382 (007P102) are specified in Condition 4.1.14.
- 6.1.5. Production from 72 Inch Single Stand Cold Mill 384 (007P101) shall not exceed 700,800 tons per year based on a rolling twelve month total.  
[45CSR13, R13-0383, 4.1.14]
- 6.1.6. Production from 72 Inch Tandem Stand Cold Mill 382 (007P102) shall not exceed 113,880 tons per year based on a rolling twelve month total.  
[45CSR13, R13-0383, 4.1.15]
- 6.1.7. The Demisters (007C102 and 007C101) which controls oil mist (particulate matter) emissions from the 72 Inch Tandem Stand Cold Mill 382 (007P102) and the 72 Inch Single Stand Cold Mill 384 (007P101) are subject to the requirements of 40 CFR 64 – “Compliance Assurance Monitoring.” The permittee shall develop and submit a plan which meets the requirements of 40 CFR 64 at least ninety (90) days prior to the proposed restart of the 72 Inch Tandem Stand Cold Mill 382 (007P102) and Demister (007C102) or the 72 Inch Single Stand Cold Mill 384 (007P101) and Demister (007C101). The requirements of the CAM Plan shall be submitted as part of a Title V permit modification. The permittee shall not restart the 72 Inch Tandem Stand Cold Mill 382 (007P102) and Demister (007C102) or the 72 Inch Single Stand Cold Mill 384 (007P101) and Demister (007C101) until a Title V permit modification has been approved by the Director which incorporates the CAM Plan for the Demisters (007C102 and 007C101).  
[45CSR13, R13-0383, 4.1.21; 40 CFR 64; 45CSR§30-12.7]

## **6.2. Monitoring Requirements**

- 6.2.1. The permittee shall maintain proper operation of the Demisters (007C101, 007C102, and 007C103) for the 72 Inch Single Stand Cold Mill 384 (007P101), 72 Inch Tandem Stand Cold Mill 382 (007P102), and 5 Stand Cold Mill 381 (007P105), and the Cyclone (007C104) for the 130 Inch Single Stand Cold Mill 386 (007P103) at all times that the equipment is in operation. The permittee shall also perform visible emission checks in accordance with Condition 3.2.1.  
**[45CSR§§30-5.1.c and 12.7]**
- 6.2.2. The Cold Roll Annealing Furnaces (007P107) shall be operated and maintained in accordance with the manufacturer's recommendations and specifications and in a manner consistent with good operating practices and shall only burn natural gas as stated in Condition 3.1.16 of this permit.  
**[45CSR§§30-5.1.c and 12.7]**

## **6.3. Testing Requirements**

- 6.3.1. None.

## **6.4. Recordkeeping Requirements**

- 6.4.1. For the purpose of demonstrating compliance with the 45CSR§7-4.1 hourly particulate matter emission limit specified in Condition 6.1.1 for the Cold Roll Annealing Furnaces (007P107), the permittee shall maintain records of the amount of natural gas consumed on a monthly basis. The monthly natural gas usage records shall be used to calculate the hourly particulate matter emission rate by dividing the source's monthly natural gas usage by the hours of operation for the month and by using stack test data, emission factors, or engineering calculations previously approved by the DAQ. The monthly natural gas usage records and the basis for the emission calculations (e.g. stack tests, emission factors, engineering calculations) shall be maintained in accordance with Condition 3.4.2.  
**[45CSR§30-5.1.c]**
- 6.4.2. The permittee shall perform annual inspection and maintenance on the Demisters (007C101, 007C102, and 007C103) for the 72 Inch Single Stand Cold Mill 384 (007P101), 72 Inch Tandem Stand Cold Mill 382 (007P102), and 5 Stand Cold Mill 381 (007P105), and the Cyclone (007C104) for the 130 Inch Single Stand Cold Mill 386 (007P103). A record of these inspections, as well as any other major maintenance performed on the control devices shall be maintained in accordance with Condition 3.4.2.  
**[45CSR13, R13-0383, 4.4.4; 45CSR§30-5.1.c]**
- 6.4.3. For the purpose of determining compliance with the hourly and annual PM emission limits specified in Condition 4.1.14 and the annual production limits specified in Conditions 6.1.5 and 6.1.6 for the 72 Inch Single Stand Cold Mill 384 (007P101) and the 72 Inch Tandem Stand Cold Mill 382 (007P102), the permittee shall maintain for each affected source the monthly and average hourly oil use records; and the twelve month rolling total production records. The permittee shall use the oil use records along with stack test data, emission factors, or engineering calculations previously approved by the DAQ to calculate hourly and annual emission rates of PM. The records along with the basis for the emission calculations (e.g. stack tests, emission factors, engineering calculations) shall be maintained in accordance with Condition 3.4.2.  
**[45CSR§30-5.1.c]**

## **6.5. Reporting Requirements**

- 6.5.1. None.

## **6.6. Compliance Plan**

6.6.1. None.

**7.0. Plate Department Requirements [008P102, 008P103, 008P104, 008P105, 008P110, 008P111, 008P112, 008P113, 008P114]**

**7.1. Limitations and Standards**

7.1.1. No person shall cause, suffer, allow or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A of 45CSR7 as specified below.

Emission Unit	Emission Unit ID	Maximum Allowable 45CSR§7-4.1 Particulate Matter Emission Limit (lb/hr)
Salem 12 Zone Heat Treat Furnace 373	008P102	6.0
120 Foot Aging Furnace 340	008P104	13.72
60 Foot Aging Furnace	008P105	8.1
Horizontal Heat Treat Furnace Addition #2	008P113	6.6
Aging Furnace #2	008P114	2.16

[45CSR§7-4.1 and Table 45-7A]

7.1.2. Emissions from the portion of the facility covered under R13-2376 shall not exceed the following:

Source ID	Stack ID	Description	PM	PM <sub>10</sub>	CO	NO <sub>x</sub>	SO <sub>2</sub>	VOCs	HCl
<i>Hourly Emission Limits (pounds/hr)</i>									
008P112	008S108	Heat-Treat Furnace Addition	0.14	0.14	1.60	1.95	0.01	0.1	N/A <sup>(1)</sup>
008P111	008S109	Aging Furnace	0.06	0.06	0.63	0.77	0.01	0.04	N/A <sup>(1)</sup>
<i>Annual Emission Limits (tpy)<sup>(2)</sup></i>									
008P112	008S108	Heat-Treat Furnace Addition	0.15	0.15	1.71	2.08	0.01	0.11	N/A <sup>(1)</sup>
008P111	008S109	Aging Furnace	0.03	0.03	0.37	0.45	0.01	0.02	N/A <sup>(1)</sup>

<sup>(1)</sup>N/A = Not Applicable; There should be no HCl emissions from these sources.

<sup>(2)</sup>Annual limits reflect 12-month Rolling Yearly Totals.

Compliance with the hourly PM emission limits for the Heat-Treat Furnace Addition (008P112) and Aging Furnace (008P111) shall demonstrate compliance with the less stringent hourly 45CSR§7-4.1 particulate matter emission limits.

[45CSR13, R13-2376, 4.1.1. and 4.1.153.c; 45CSR§7-4.1 and Table 45-7A]

7.1.3. The annual consumption of natural gas shall not exceed the limits as specified in the following table. Compliance with the annual natural gas consumption limits shall be determined using rolling yearly totals. A rolling yearly total shall mean the sum of the natural gas consumed at any given time for the previous twelve (12) consecutive months.

Source ID	Source Description	Natural Gas Limit (ft <sup>3</sup> )
008P112	Heat-Treat Furnace Addition	<del>40,600,000</del> <u>75,000,000</u>
008P111	Aging Furnace	8,800,000

[45CSR13, R13-2376, 4.1.6]

7.1.4. The individual emission rate of NO<sub>x</sub> from the Heat-Treat Furnace Addition (008P112) and Aging Furnace (008P111) in pounds of pollutant per MMBtu of heat input (lb/MMBtu), shall not exceed 0.100.

[45CSR13, R13-2376, 4.1.10]

7.1.5. The amount of natural gas burned as a fuel for the Horizontal Heat Treat Furnace (008P110) shall not exceed 26,400 standard cubic feet per hour (scfh) or 198,940,937 standard cubic feet per year (scfy) for twelve (12) consecutive months.

[45CSR13, R13-2102, A.3]

7.1.6. Emissions from the Horizontal Heat Treat Furnace (008P110) shall not exceed the following:

Pollutant	lb/hr	TPY
Carbon Monoxide (CO)	0.75	2.83
Nitrogen Oxides (NO <sub>x</sub> )	4.91	18.50
Sulfur Dioxide (SO <sub>2</sub> )	0.01	0.04
Total PM	0.30	1.12
VOCs	0.06	0.21

Compliance with the hourly Total PM emission limit for the Horizontal Heat Treat Furnace (008P110) shall demonstrate compliance with the less stringent hourly 45CSR§7-4.1 particulate matter emission limit.

[45CSR13, R13-2102, A.4 and B.3; 45CSR§7-4.1 and Table 45-7A]

## 7.2. Monitoring Requirements

7.2.1. The Salem 12 Zone Heat Treat Furnace 373 (008P102), 120 Foot Aging Furnace 340 (008P104), 60 Foot Aging Furnace (008P105), Horizontal Heat Treat Furnace (008P110), Horizontal Heat Treat Furnace Addition (008P112), Horizontal Heat Treat Furnace Addition #2 (008P113), Aging Furnace (008P111), and Aging Furnace #2 (008P114) shall be operated and maintained in accordance with the manufacturer's recommendations and specifications and in a manner consistent with good operating practices and shall only burn natural gas as stated in Condition 3.1.16 of this permit.

[45CSR§§30-5.1.c and 12.7]

7.2.2. Compliance with the hourly emissions limitations for the Horizontal Heat Treat Furnace (008P110) shall be determined based on a 24 hour rolling average.

[45CSR13, R13-2102, A.5]

7.2.3. The permittee shall maintain an efficient combustion process in the Horizontal Heat Treat Furnace (008P110) by conducting periodic maintenance checks as per the manufacturer's recommendations.

[45CSR13, R13-2102, A.6]

### **7.3. Testing Requirements**

- 7.3.1. None.

### **7.4. Recordkeeping Requirements**

- 7.4.1. For the purpose of demonstrating compliance with the 45CSR§7-4.1 hourly particulate matter emission limits specified in Condition 7.1.1 for the Salem 12 Zone Heat Treat Furnace 373 (008P102), 120 Foot Aging Furnace 340 (008P104), 60 Foot Aging Furnace (008P105), Horizontal Heat Treat Furnace Addition #2 (008P113) and Aging Furnace #2 (008P114), the permittee shall maintain records of the amount of natural gas consumed on a monthly basis. The monthly natural gas usage records shall be used to calculate the hourly particulate matter emission rate by dividing the source's monthly natural gas usage by the hours of operation for the month and by using stack test data, emission factors, or engineering calculations previously approved by the DAQ. The monthly natural gas usage records and the basis for the emission calculations (e.g. stack tests, emission factors, engineering calculations) shall be maintained in accordance with Condition 3.4.2.

**[45CSR§30-5.1.c]**

- 7.4.2. For the purpose of determining compliance with the hourly and annual natural gas usage limits specified in Condition 7.1.5 and the hourly and annual CO, NO<sub>x</sub>, SO<sub>2</sub>, Total PM, and VOC emission limits specified in Condition 7.1.6 for the Horizontal Heat Treat Furnace (008P110), the permittee shall monitor and maintain a certified record of the amount of natural gas burned, in accordance with the monthly natural gas usage form located in Appendix A. These records shall be properly maintained on site for a period of not less than five (5) years and be made available to the Director, or his or her designated representative, upon request.

The monthly natural gas usage records shall be used to calculate an hourly and annual natural gas usage rate to demonstrate compliance with the 7.1.5 hourly and annual limits. The hourly usage rate shall be calculated by dividing the monthly natural gas usage by the hours of operation for the month and the annual usage rate shall be calculated based on a 12-month rolling total. To demonstrate compliance with the hourly and annual emission limits in Condition 7.1.6, these hourly and annual natural gas usage rates shall be used along with stack test data, emission factors, or engineering calculations previously approved by the DAQ, to calculate CO, NO<sub>x</sub>, SO<sub>2</sub>, Total PM, and VOC hourly and annual emissions.

**[45CSR13, R13-2102, B.2; 45CSR§30-5.1.c]**

- 7.4.3. For the purpose of determining compliance with the annual natural gas consumption limits specified in Condition 7.1.3. and the hourly and annual PM, PM<sub>10</sub>, CO, NO<sub>x</sub>, SO<sub>2</sub>, and VOC emission limits specified in Condition 7.1.2. for the Heat-Treat Furnace Addition (008P112) and Aging Furnace (008P111), the permittee shall maintain certified daily and monthly records of the amount of natural gas consumed on a monthly basis. Such records shall be retained by the permittee for at least five (5) years. Certified records shall be made available to the Director or his/her duly authorized representative upon request.

The monthly natural gas usage records shall be used to calculate a 12-month rolling total natural gas usage rate in order to demonstrate compliance with the 7.1.3 annual limit. To demonstrate compliance with the hourly and annual emission limits in Condition 7.1.2, the permittee shall calculate an hourly natural gas usage rate by dividing the monthly natural gas usage by the hours of operation for the month and then use the hourly and 12-month rolling total natural gas usage rates along with stack test data, emission factors, or engineering calculations previously approved by the DAQ, to calculate PM, PM<sub>10</sub>, CO, NO<sub>x</sub>, SO<sub>2</sub>, and VOC hourly and annual emissions.

**[45CSR13, R13-2376, 4.3.4.; 45CSR§30-5.1.c]**

## **7.5. Reporting Requirements**

7.5.1. None.

## **7.6. Compliance Plan**

7.6.1. None.



## 8.0. Finishing Department Requirements [009P103, 009P104, 009P109, 009P110, 009P111]

### 8.1. Limitations and Standards

- 8.1.1. No person shall cause, suffer, allow or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A of 45CSR7 as specified below.

Emission Unit	Emission Unit ID	Maximum Allowable 45CSR§7-4.1 Particulate Matter Emission Limit (lb/hr)
Coil Annealing Furnaces 413	009P103	32.84
Coil Annealing Furnaces 521	009P104	33.8

[45CSR§7-4.1 and Table 45-7A]

### 8.2. Monitoring Requirements

- 8.2.1. The Coil Annealing Furnaces 413 and 521 (009P103 and 009P104) shall be operated and maintained in accordance with the manufacturer's recommendations and specifications and in a manner consistent with good operating practices and shall only burn natural gas as stated in Condition 3.1.16 of this permit.  
[45CSR§§30-5.1.c and 12.7]

### 8.3. Testing Requirements

- 8.3.1. None.

### 8.4. Recordkeeping Requirements

- 8.4.1. For the purpose of demonstrating compliance with the 45CSR§7-4.1 hourly particulate matter emission limits specified in Condition 8.1.1 for the Coil Annealing Furnaces 413 and 521 (009P103 and 009P104), the permittee shall maintain records of the amount of natural gas consumed on a monthly basis. The monthly natural gas usage records shall be used to calculate the hourly particulate matter emission rate for each source by dividing each source's monthly natural gas usage by the hours of operation for the month and by using stack test data, emission factors, or engineering calculations previously approved by the DAQ. The monthly natural gas usage records and the basis for the emission calculations (e.g. stack tests, emission factors, engineering calculations) shall be maintained in accordance with Condition 3.4.2.  
[45CSR§30-5.1.c]

### 8.5. Reporting Requirements

- 8.5.1. None.

### 8.6. Compliance Plan

- 8.6.1. None.

## 9.0. Miscellaneous Sources and Engine Requirements [010P201, EG-1, [FP001](#), [FP002](#), Emergency and Non-Emergency Generators]

### 9.1. Limitations and Standards

- 9.1.1. No person shall cause, suffer, allow or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of the quantity specified under the appropriate source operation type in Table 45-7A of 45CSR7 as specified below.

Emission Unit	Emission Unit ID	Maximum Allowable 45CSR§7-4.1 Particulate Matter Emission Limit (lb/hr)
Dust Handling System	010P201	15.09

[45CSR§7-4.1 and Table 45-7A]

- 9.1.2. If you own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions, you must comply with the requirements below.

Except during periods of startup, for each Emergency stationary CI and SI RICE, you must:

- a. Change oil and filter every 500 hours of operation or annually, whichever comes first. (Sources have the option to utilize an oil analysis program as described in 40 CFR §63.6625(i) or (j) in order to extend the specified oil change requirement.)
- b. For the Waukesha and John Deere diesel engines: Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary;  
  
For the Ford 429 and Ford 460 SI engines: Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary;
- c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

Sources can petition the Administrator pursuant to the requirements of 40 CFR §63.6(g) for alternative work practices.

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

[45CSR34; 40 CFR §63.6602 and Table 2c(1) and (6) (*Waukesha, John Deere, Ford 429, and Ford 460*)]

- 9.1.3. a. You must be in compliance with the operating limitations and other requirements in 40 CFR Part 63, Subpart ZZZZ that apply to you at all times.
- b. At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on

information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

**[45CSR34; 40 CFR §63.6605 (*Waukesha, John Deere, Ford 429, Ford 460, and EG-1*)]**

- 9.1.4. a. You must demonstrate continuous compliance with each operating limitation, and other requirements in Section 9.1.2. by:
- i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or
  - ii. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
- b. You must report each instance in which you did not meet each operating limitation in Section 9.1.2. These instances are deviations from the emission and operating limitations. These deviations must be reported according to the requirements in 40 CFR § 63.6650.
- c. If you own or operate an emergency stationary RICE, you must operate the emergency stationary RICE according to the requirements in Sections 9.1.4.c.1. through 3. below. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described below, is prohibited. If you do not operate the engine according to the requirements below, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.
1. There is no time limit on the use of emergency stationary RICE in emergency situations.
  2. You may operate your emergency stationary RICE for any combination of the purposes specified in Sections 9.1.4.c.2.i. through iii. below for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by Section 9.1.4.c.3. counts as part of the 100 hours per calendar year allowed by this Section.
    - i. Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.
    - ii. Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 40CFR § 63.14 or 40CFR §60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

iii. Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

3. Emergency stationary RICE located at major sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in Section 9.1.4.c.2. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

**[45CSR34; 40 CFR §§63.6640(a), (b) and (f)(1) through (3), Table 6(9) (*Waukesha, John Deere, Ford 429, and Ford 460*)] [45CSR16; 40 CFR §§60.4211(f)(1) through (3), 45CSR13 General Permit Registration G60-C065, [G60-D106](#), & G60-~~ED~~, ~~7.1.25~~: [5.1.6](#). (*EG-1, FP001, FP002*)]**

9.1.5. These engines ~~is~~ are subject to Class II General Permit G60-~~ED~~, and General Permit Registrations [G60-C065](#) and [G60-D106](#).

a. The reciprocating internal combustion engines shall be operated and maintained in accordance with the manufacturer’s recommendations and specifications and in a manner consistent with good operating practices.

b. The emissions limitations from G60-C065 and G60-D106 are as follows:

Source ID	Nitrogen Oxides		Carbon Monoxide		Volatile Organic Compounds	
	lb/hr	tons/yr	lb/hr	tons/yr	lb/hr	tons/yr
EG-1	7.16	1.79	0.67	0.17	1.20	0.30
<a href="#">FP001/FP002</a>	2.45	0.61	0.65	0.16	0.08	0.02

**[45CSR13 General Permit Registration G60-C065, [G60-D106](#), & G60-~~CD~~, [5.1.1.](#), [5.1.2.](#), and [7.1.2. 5.1.4.](#) (*EG-1, FP001, FP002*)]**

9.1.6. Owners and operators of 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines must comply with the following emission standards for new nonroad CI engines:

Duty	Size (hp)	Displacement (L/cyl)	Source	Emission Standards (g/hp-hr)		
				NMHC + NO <sub>x</sub>	CO	PM
Emergency	755	<10	§89.112, Table 1 <sup>(1)</sup>	4.8	2.6	0.15

(1) Logic train is as follows: §60.4205(b) → §60.4202(a)(2) → §89.112/§89.113.

**[45CSR16; 40 CFR §§60.4205(b), 60.4202(a)(2), 89.112/89.113, 45CSR13 General Permit Registration G60-C065 & G60-~~ED~~, [7.1.6](#). (*EG-1*)]**

9.1.7. Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in Conditions [9.1.6.](#) and [9.1.12](#) over the entire life of the engine.

**[45CSR16; 40 CFR §60.4206, 45CSR13 General Permit Registration G60-C065, [G60-D106](#), & G60-~~ED~~, ~~7.1.9~~: [5.1.6](#). (*EG-1, FP001, FP002*)]**

- 9.1.8. Beginning October 1, 2010, owners and operators of stationary CI ICE subject to 40 CFR 60 subpart IIII with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR §80.510(b).  
**[45CSR16; 40 CFR §60.4207(b), 45CSR13 General Permit Registration G60-C065, G60-D106, &G60-CD, 7.1.10. 5.1.6. (EG-1, Mersino, FP001, FP002)]**
- 9.1.9. Maximum [Yearly Operation Hourly](#) Limitation. The maximum [yearly](#) hours of operation for any [registered](#) emergency generator listed in the General Permit Registration application shall not exceed 500 hours per year. Compliance with the Maximum Yearly [Hourly](#) Operation Limitation shall be determined using a twelve-month rolling total. A twelve-month rolling total shall mean the sum of the hours of operation at any given time during the previous twelve consecutive calendar months.  
**[45CSR13 General Permit Registration G60-C065, G60-D106, &G60-CD, 7.1.1. 5.1.3. (EG-1, FP001, FP002)]**
- 9.1.10. Owners and operators of 2007 model year and later non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder must comply with the emission standards for new CI engines in 40 CFR §60.4201 and must certify their 2007 model year and later non-emergency stationary CI ICE with a maximum engine power less than or equal to 2,237 kilowatt (KW) (3,000 horsepower (HP)) and a displacement of less than 10 liters per cylinder to the certification emission standards for new nonroad CI engines in 40 CFR 89.112, 40 CFR 89.113, 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable, for all pollutants, for the same model year and maximum engine power. Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required over the entire life of the engine.  
**[45CSR16; 40 CFR §§60.4204(b), 60.4201(a), and 60.4206 (Mersino)]**
- 9.1.11. Owners and operators of stationary SI ICE with a maximum engine power less than or equal to 19 KW (25 HP) manufactured on or after July 1, 2008, must comply with the following emission standards for their stationary SI ICE: the engine must meet emission standards and related requirements for nonhandheld engines under 40 CFR part 90.  
  
 Owners and operators of stationary SI ICE must operate and maintain stationary SI ICE that achieve the emission standards over the entire life of the engine. Owners and operators of stationary SI ICE that use gasoline must use gasoline that meets the per gallon sulfur limit in 40 CFR §80.195.  
**[45CSR16; 40 CFR §§60.4233(a), 60.4231(a), 60.4234, and 60.4235 (Generac)]**
- 9.1.12. Owners and operators of fire pump engines with a displacement of less than 30 liters per cylinder must comply with the emission standards in table 4 to 40CFR60, Subpart IIII for all pollutants.

Table 4 to Subpart IIII of Part 60—Emission Standards for Stationary Fire Pump Engines

Maximum engine power	Model year(s)	NMHC + NO <sub>x</sub>	PM
		g/KW-hr (g/HP-hr)	
225 ≤ KW < 450 (300 ≤ HP < 600)	2009 +	4.0 (3.0)	0.20 (0.15)

**[45CSR16; 40 CFR §60.4205(c); 45CSR13 General Permit Registration G60-D106 & G60-D, 5.1.6. (FP001, FP002)]**

- 9.1.13. The emission limitations specified in 9.1.5 shall apply at all times except during periods of start-up and shut-down provided that the duration of these periods does not exceed 30 minutes per occurrence. The registrant

shall operate the engine in a manner consistent with good air pollution control practices for minimizing emissions at all times, including periods of start-up and shut-down. The emissions from start-up and shut-down shall be included in the twelve (12) month rolling total of emissions. The registrant shall comply with all applicable start-up and shut-down requirements in accordance with 40 CFR Part 60, Subparts IIII, JJJJ and 40 CFR Part 63, Subpart ZZZZ.

[45CSR13 General Permit Registration G60-C065, G60-D106, &G60-D, 5.1.7. (*EG-1, FP001, FP002*)]

## 9.2. Monitoring Requirements

- 9.2.1. a. You must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions:
- b. You must install a non-resettable hour meter if one is not already installed.
- c. You must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.
- d. You have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in accordance with 40 CFR §§ 63.6625(i) and (j)  
[45CSR34; 40 CFR §§63.6625(e), (f), (h), (i), and (j) (*Waukesha, John Deere, Ford 429, and Ford 460*)]
- 9.2.2. If you are an owner or operator of an emergency stationary CI internal combustion engine that does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine.  
[45CSR16; 40 CFR §60.4209(a), 45CSR13 General Permit Registration G60-C065, [G60-D106](#), &G60-~~ED~~, ~~7.1.19~~, [5.1.6](#). (*EG-1, FP001, FP002*)]
- 9.2.3. a. If you are an owner or operator and must comply with the emission standards specified in Condition [9.1.6](#) and [9.1.12](#), you must do all of the following, except as permitted under 40 CFR §60.4211(g):
1. Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;
  2. Change only those emission-related settings that are permitted by the manufacturer; and
  3. Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you.
- b. If you are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in conditions 9.1.6. and 9.1.10., or if you are an owner or operator a a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in table 3 to this subpart and must comply with the emission standards specified in 9.1.12, you must comply by purchasing an engine certified to the emission standards in conditions 9.1.6., and 9.1.10., and 9.1.12. for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in 40 CFR §60.4211(g).  
[45CSR16; 40 CFR §§60.4211(a), (c); 45CSR13 General Permit Registration G60-C065, [G60-D106](#), &G60-~~ED~~, ~~7.1.21~~, and ~~7.1.23~~, [5.1.6](#). (*EG-1, Mersino, FP001, FP002*)]

- 9.2.4. If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as follows:
- a. If you are an owner or operator of a stationary CI internal combustion engine with maximum engine power less than 100 HP, you must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, if you do not install and configure the engine and control device according to the manufacturer's emission-related written instructions, or you change the emission-related settings in a way that is not permitted by the manufacturer, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of such action. (*Mersino*)
  - b. If you are an owner or operator of a stationary CI internal combustion engine greater than or equal to 100 HP and less than or equal to 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. (*FP001 and FP002*)
  - cb. If you are an owner or operator of a stationary CI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. You must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards. (*EG-1*)  
**[45CSR16; 40 CFR §§60.4211(g), (g)(1), (g)(2), (g)(3); 45CSR13 General Permit Registration G60-C065, G60-D106, & G60-D, 5.1.6. (*EG-1, Mersino, FP001, FP002*)]**
- 9.2.5. a. If you are an owner or operator of a stationary SI internal combustion engine that is manufactured after July 1, 2008, and must comply with the emission standards specified in condition 9.1.11., you must comply by purchasing an engine certified to the emission standards in condition 9.1.11., as applicable, for the same engine class and maximum engine power. In addition, you must meet one of the requirements specified in 1. and 2. below.
1. If you operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, you must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required if you are an owner or operator. You must also meet the requirements as specified in 40 CFR part 1068, subparts A through D, as they apply to you. If you adjust engine settings according to and consistent with the manufacturer's instructions, your stationary SI internal combustion engine will not be considered out of compliance.
  2. If you do not operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, your engine will be

considered a non-certified engine, and you must demonstrate compliance according to the paragraph below.

If you are an owner or operator of a stationary SI internal combustion engine less than 100 HP, you must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions, but no performance testing is required if you are an owner or operator.

- b. If you are an owner or operator of a stationary SI internal combustion engine that is less than or equal to 500 HP and you purchase a non-certified engine or you do not operate and maintain your certified stationary SI internal combustion engine and control device according to the manufacturer's written emission-related instructions, you are required to perform initial performance testing as indicated in this section, but you are not required to conduct subsequent performance testing unless the stationary engine is rebuilt or undergoes major repair or maintenance. A rebuilt stationary SI ICE means an engine that has been rebuilt as that term is defined in 40 CFR §94.11(a).

[45CSR16; 40 CFR §§60.4243(a)(1), (a)(2), (a)(2)(i), and (f) (*Generac*)]

### 9.3. Testing Requirements

- 9.3.1. None. Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests pursuant to this subpart must do so according to paragraphs (a) through (e) of 40 CFR §60.4212.

- a. [The performance test must be conducted according to the in-use testing procedures in 40 CFR part 1039, subpart F, for stationary CI ICE with a displacement of less than 10 liters per cylinder, and according to 40 CFR part 1042, subpart F, for stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder.](#)

- b. [Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1039 must not exceed the not-to-exceed \(NTE\) standards for the same model year and maximum engine power as required in 40 CFR 1039.101\(e\) and 40 CFR 1039.102\(g\)\(1\), except as specified in 40 CFR 1039.104\(d\). This requirement starts when NTE requirements take effect for nonroad diesel engines under 40 CFR part 1039.](#)

- c. [Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8, as applicable, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112 or 40 CFR 94.8, as applicable, determined from the following equation:](#)

$$\text{NTE requirement for each pollutant} = (1.25) \times (\text{STD})$$

[Where:](#)

[STD = The standard specified for that pollutant in 40 CFR 89.112 or 40 CFR 94.8, as applicable.](#)

[Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8 may follow the testing procedures specified in §60.4213 of this subpart, as appropriate.](#)



d. Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1042 must not exceed the NTE standards for the same model year and maximum engine power as required in 40 CFR 1042.101(c).

[45CSR16; 40 CFR §§60.4212(a), (b), (c), (e); 45CSR13 General Permit Registration G60-C065, G60-D106, & G60-D, 5.4.1. (EG-1, Mersino, FP001, FP002)]

#### 9.4. Recordkeeping Requirements

9.4.1. Compliance with the PM emission limit for the Dust Handling System (010P201) shall be demonstrated through estimation of emissions from the sources using stack test data, emission factors, or engineering calculations previously approved by the DAQ. The permittee shall estimate emissions on a monthly basis and indicate compliance by dividing the total emissions for the month by the number of hours in the month. Each calculated emission rate and the applicable emission limit shall be recorded and maintained in accordance with Condition 3.4.2. Emissions in excess of the applicable standard emission rate shall be reported prior to the end of the month following the compliance period.

**[45CSR§30-5.1.c]**

9.4.2. For the emergency engines, you must keep the following records:

- a. 1. A copy of each notification and report that you submitted to comply with 40 CFR part 63, subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in 40 CFR § 63.10(b)(2)(xiv).
2. Records of the occurrence and duration of each malfunction of operation ( i.e., process equipment) or the air pollution control and monitoring equipment.
3. Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
- b. You must keep the records required in Table 6 of 40 CFR part 63, subpart ZZZZ to show continuous compliance with each emission or operating limitation that applies to you.
- c. You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan.
- d. You must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in Section 9.1.4.c.2.ii. or iii., the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.

**[45CSR34; 40 CFR §§63.6655(a), (d), (e), and (f) (Waukesha, John Deere, Ford 429, and Ford 460)]**

9.4.3. If the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner or operator is not required to submit an initial notification. Starting with the model years in table 5 to this subpart, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.

**[45CSR16; 40 CFR §60.4214(b), 45CSR13 General Permit Registration G60-C065, [G60-D106](#), &G60-[CD](#), ~~7.3.7~~-[5.3.4](#), (EG-I, [FP001](#), [FP002](#))]**

- 9.4.4. For the purpose of determining compliance with the Maximum Yearly Operation Limitation, a person designated by a Responsible Official or Authorized Representative shall maintain records of hours of operation.

To demonstrate compliance with condition 9.1.9, the registrant shall maintain records of the hours of operation of the emergency generator(s) on a monthly basis.

**[45CSR13 General Permit Registration G60-C065, [G60-D106](#), &G60-[CD](#), [7.3.1.a](#). [5.3.1](#). (EG-I, [FP001](#), [FP002](#))]**

- 9.4.5. To demonstrate compliance with section 9.1.6, the permittee shall maintain records of the amount and type of fuel consumed in each engine and the hours of operation of each engine. Said records shall be maintained on site or in a readily accessible off-site location maintained by the registrant for a period of five (5) years. Said records shall be readily available to the Director of the Division of Air Quality or his/her duly authorized representative for expeditious inspection and review. Any records submitted to the agency pursuant to a requirement of this permit or upon request by the Director shall be certified by a responsible official.

**[45CSR13 General Permit Registration G60-C065 &G60-C, [5.4.1](#). (EG-I)]**

- 9.4.6. The permittee shall maintain maintenance records relating to failure and/or repair of emergency generator equipment. In the event of equipment or system failure, these records shall document the permittee's effort to maintain proper and effective operation of such equipment and/or systems.

To demonstrate compliance with condition 9.1.5.a, the registrant shall maintain records of the maintenance performed on each emergency generator.

**[45CSR13 General Permit Registration G60-C065, [G60-D106](#), &G60-[CD](#), [7.3.3.a](#). [5.3.2](#). (EG-I, [FP001](#), [FP002](#))]**

- 9.4.~~7~~6. Owners or operators of stationary SI ICE must meet the following notification, reporting and recordkeeping requirements.

- a. Owners and operators of all stationary SI ICE must keep records of the information in 1. through 4. below.

1. All notifications submitted to comply with this subpart and all documentation supporting any notification.
2. Maintenance conducted on the engine.
3. If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable.
4. If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to condition 9.2.5.a.2., documentation that the engine meets the emission standards.

**[45CSR16; 40 CFR §§60.4245(a)(1) through (a)(4) (*Generac*)]**

## 9.5. Reporting Requirements

9.5.1. If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Table 2c of this subpart, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the work practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable.

**[45CSR34; 40 CFR part 63, subpart ZZZZ, Footnote 1 of Table 2c (*Waukesha, John Deere, Ford 429, and Ford 460*)]**

9.5.2. If you are required to submit an Initial Notification but are otherwise not affected by the requirements of this subpart, in accordance with 40 CFR §63.6590(b), your notification should include the information in 40 CFR §63.9(b)(2)(i) through (v), and a statement that your stationary RICE has no additional requirements and explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary RICE if it has a site rating of more than 500 brake HP located at a major source of HAP emissions).

**[45CSR34; 40 CFR §63.6645(f) (*EG-1*)]**

## 9.6. Compliance Plan

9.6.1. None.

## Appendix A – R13-2102 Recordkeeping Form

### Certified Monthly Record of Natural Gas Usage

Month \_\_\_\_\_ Year \_\_\_\_\_

Emission Unit	Gas Meter Reading This Month (ft <sup>3</sup> )	Gas Meter Reading Previous Month (ft <sup>3</sup> )	Gas Used This Month (ft <sup>3</sup> )	12 Month Rolling Total (ft <sup>3</sup> )
Ingot Pusher Furnace (006P119)				
Horizontal Heat Treat Furnace (008P110)				

Month \_\_\_\_\_ Year \_\_\_\_\_

Emission Unit	Gas Meter Reading This Month (ft <sup>3</sup> )	Gas Meter Reading Previous Month (ft <sup>3</sup> )	Gas Used This Month (ft <sup>3</sup> )	12 Month Rolling Total (ft <sup>3</sup> )
Ingot Pusher Furnace (006P119)				
Horizontal Heat Treat Furnace (008P110)				

Month \_\_\_\_\_ Year \_\_\_\_\_

Emission Unit	Gas Meter Reading This Month (ft <sup>3</sup> )	Gas Meter Reading Previous Month (ft <sup>3</sup> )	Gas Used This Month (ft <sup>3</sup> )	12 Month Rolling Total (ft <sup>3</sup> )
Ingot Pusher Furnace (006P119)				
Horizontal Heat Treat Furnace (008P110)				