

West Virginia Department of Environmental Protection

Harold D. Ward
Cabinet Secretary

Title V Operating Permit Revision

For Minor Modification Permitting Action Under 45CSR30 and Title V of the Clean Air Act

Permit Action Number: MM01 **SIC:** 3296
Name of Permittee: Armstrong World Industries, Inc.
Facility Name/Location: Armstrong Millwood Plant
County: Jackson
Permittee Mailing Address: 141 Sensenich Drive, Millwood, WV 25262

Description of Permit Revision: Remove the temporary propane fired sand dryer (EU-18S), update the capacity of diesel storage tank #2 (EU - 13S) from 500 gallons to 1,000 gallons to reflect the as-built equipment on site, remove the emission limitations for diesel storage tanks #1 (EU – 12S) and #2 (EU - 13S) because they meet the definition of insignificant activities, update the VOC emissions for 3S and 4S to show a slight decrease in the hourly and annual limits and modify the definition of water truck to include an equivalent alternative such as an ATV-type vehicle equipped with a spray rig. As a result of these modifications, the facility's PTE will decrease by the following amounts: 0.43 TPY for PM, 0.43 TPY for PM₁₀, 0.28 TPY for NO_x, 0.14 TPY for VOCs and 0.16 TPY for CO.

Title V Permit Information:

Permit Number: R30-03500049-2025
Issued Date: January 22, 2025
Effective Date: February 5, 2025
Expiration Date: January 22, 2030

Directions to Facility: From US-33 E, turn left onto WV 68 S. Continue on WV 68 S for 0.4 miles. Turn right onto WV 2 S. Continue for approximately 6 miles. Turn right onto Jack Burlingame Road.

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.

Laura M. Crowder

Laura M. Crowder
Director, Division of Air Quality

Laura M. Crowder

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Date: 2025.06.10 11:00:31 -0400

June 10, 2025

Date Issued

Permit Number: **R30-03500049-2025**
Permittee: **Armstrong World Industries, Inc.**
Facility Name: **Armstrong Millwood Plant**
Permittee Mailing Address: **P.O. Box 220, Millwood, WV 25262**

This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45CSR30 C 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.

| | |
|---------------------------|--|
| Facility Location: | Millwood, Jackson County, West Virginia |
| Facility Mailing Address: | 141 Sensenich Drive, Millwood, WV 25262 |
| Telephone Number: | 304-273-3900 |
| Type of Business Entity: | Corporation |
| Facility Description: | Slag wool manufacturing facility |
| SIC Codes: | 3296 |
| UTM Coordinates: | 427.2 km Easting • 4,307 km Northing • Zone 17 |

Permit Writer: Dan Roberts

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.

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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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 ¹ |
|------------------|-------------------|--|-----------------|--|---------------------------------|
| 1S | 1-2E | Raw Material Transfer and Electric Arc Furnace (EAF) | 2011 | 40,000 lb/hr | Scrubber 1C & Dust Collector 2C |
| 3S | 3-4E | Spinner Collection Chamber #1 | 2011 | 34,500 lb/hr | Baghouse 3C |
| 4S | 3-4E | Spinner Collection Chamber #2 | 2011 | | Baghouse 4C |
| 6S | 6E | Hydrated Lime Storage Silo | 2011 | 3,300 cfm | Filter 6C |
| 7S | 7E | Backup Generator | 2011 | 500 kWe | N/A |
| 8S | Fugitive | Haulroads | 2011 | 8,880 VMT/yr | WS |
| 9S | Fugitive | Slag Handling and Storage | 2011 | 175,000 tpy | N/A |
| 10S | 10E | Cooling Tower #1 | 2011 | 1,500 GPM | N/A |
| 11S | Fugitive | Railcar Unloading | 2011 | 300 TPH | N/A |
| 12S | Fugitive | Diesel Storage Tank #1 – Emergency Generator | 2011 | 900 Gal | N/A |
| 13S | Fugitive | Diesel Storage Tank #2 – Front End Loader and other Mobile Equipment | 2011 | 500 1,000 Gal | N/A |
| 15S | 8E | Slag Wool Processing Line #1 | 2011 | 28,000 lb/hr (based on a 24-hour average) | Baghouse 7C |
| 16S | 8E | Slag Wool Processing Line #2 | 2011 | | Baghouse 7C |
| 17S | 17E | Cooling Tower #2 | 2011 | 800 GPM | N/A |
| 18S | 18E | Propane-fueled Sand Dryer | 2017 | 2,000 lb/hr sand 5 gal/hr propane | None |

¹ Control Device abbreviations: WS – Wet Suppression

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.

| Permit Number | Date of Issuance |
|---|--|
| R13-2864 D F | September 23, 2019 April 17, 2025 |

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 other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.39.). 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

| | | | |
|---------------------------------------|---|------------------------|---|
| CAAA | Clean Air Act Amendments | NSPS | New Source Performance |
| CBI | Confidential Business Information | | Standards |
| CEM | Continuous Emission Monitor | PM | Particulate Matter |
| CES | Certified Emission Statement | PM₁₀ | Particulate Matter less than 10µm in diameter |
| C.F.R. or CFR | Code of Federal Regulations | | |
| CO | Carbon Monoxide | pph | Pounds per Hour |
| C.S.R. or CSR | Codes of State Rules | ppm | Parts per Million |
| DAQ | Division of Air Quality | PSD | Prevention of Significant Deterioration |
| DEP | Department of Environmental Protection | psi | Pounds per Square Inch |
| FOIA | Freedom of Information Act | SIC | Standard Industrial Classification |
| HAP | Hazardous Air Pollutant | | |
| HON | Hazardous Organic NESHAP | SIP | State Implementation Plan |
| HP | Horsepower | SO₂ | Sulfur Dioxide |
| lbs/hr or lb/hr | Pounds per Hour | TAP | Toxic Air Pollutant |
| LDAR | Leak Detection and Repair | TPY | Tons per Year |
| m | Thousand | TRS | Total Reduced Sulfur |
| MACT | Maximum Achievable Control Technology | TSP | Total Suspended Particulate |
| mm | Million | USEPA | United States Environmental Protection Agency |
| mmBtu/hr | Million British Thermal Units per Hour | UTM | Universal Transverse Mercator |
| mmft³/hr or mmcf/hr | Million Cubic Feet Burned per Hour | VEE | Visual Emissions Evaluation |
| NA or N/A | Not Applicable | | |
| NAAQS | National Ambient Air Quality Standards | VOC | Volatile Organic Compounds |
| NESHAPS | National Emissions Standards for Hazardous Air Pollutants | | |
| NO_x | Nitrogen Oxides | | |

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), recordkeeping, reporting, or compliance certification requirements.

[45CSR§30-2.40]

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. Reserved

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 C.F.R. 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.]

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 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator 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 C.F.R. § 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 C.F.R. §61.145(b) 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)(15)]
- 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 C.F.R. 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 C.F.R. §§ 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 C.F.R. § 82.158.

- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 C.F.R. § 82.161.

[40 C.F.R. 82, Subpart F]

- 3.1.8. **Risk Management Plan.** Should this stationary source, as defined in 40 C.F.R. § 68.3, become subject to Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 C.F.R. § 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 C.F.R. Part 70 or 71.

[40 C.F.R. 68]

- 3.1.9. The permitted facility shall be constructed and operated in accordance with the plans and specifications filed in Permit Applications R13-2864, R13-2864A, R13-2864B, R13-2864C, R13-2864D [and R13-2864F](#) and any modifications, administrative updates, or amendments thereto. The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to.

[45CSR13, R13-2864, 2.5.1.; 45CSR§§13-5.10 and 10.3]

3.2. Monitoring Requirements

- 3.2.1. Reserved.

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 C.F.R. 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 Section 3.3.1.a. of this permit. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit shall be revised in accordance with 45CSR§30-6.4 or 45CSR§30-6.5 as applicable.
 - 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 paragraph 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)(15-16) 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, R13-2864, 4.4.1.]

- 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.]

3.5. 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:

Section Chief
U. S. Environmental Protection Agency, Region III
Enforcement and Compliance Assurance Division
Air, RCRA and Toxics Branch (3ED21)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, PA 19103-2852

DAQ Compliance and Enforcement¹:

DEPAirQualityReports@wv.gov

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

- 3.5.4. **Fees.** The permittee shall pay fees on an annual basis in accordance with 45CSR§30-8.
[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

US EPA:
R3_APD_Permits@epa.gov

[45CSR§30-5.3.e.]

- 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. **Reserved.**

- 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. Reserved.
 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 email. 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. 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 email. 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.
 4. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.
 5. 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.]

3.6. Compliance Plan

- 3.6.1. Reserved.

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. **40 CFR 60 Subpart CC – Standards of Performance for Glass Manufacturing Plants.** The Millwood plant does not include glass melting furnaces, which are the affected facility to which this subpart applies (40 C.F.R. §60.290(a)). Therefore, this subpart is not applicable to the facility.

- b. **40 CFR 60 Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants.** Slag does not meet the definition of nonmetallic mineral. ~~In addition, the permittee installed a small propane fired sand dryer (EUID 18S) permitted under R13-2864C. The source is used for drying batches (2,000 lb/hr) of sand used to collect tapped off metal material from the bottom of the EAF. The metal is tapped off onto a sand bed which must be dry due to its contact with molten metal. The sand drying operation is not subject to the Nonmetallic Mineral Processing Plants NSPS (Subpart OOO) because dryers are not an “affected facility” as listed by the regulation.~~

- c. **40 CFR 60 Subpart UUU – Standards of Performance for Calciners and Dryers in Mineral Industries.** The Electric Arc Furnace does not meet the definition of a calciner or dryer in §60.731 and is therefore not subject to this subpart. ~~In addition, the permittee installed a small propane fired sand dryer (EUID 18S) permitted under R13-2864C. The source is used for drying batches (2,000 lb/hr) of sand used to collect tapped off metal material from the bottom of the EAF. The metal is tapped off onto a sand bed which must be dry due to its contact with molten metal. The sand drying operation is not a Mineral processing plant as defined in §60.731 and is therefore not subject to the Calciners and Dryers in Mineral Industries NSPS (Subpart UUU) because sand and other regulated materials do not constitute the majority (>50%) of the materials processed at the Millwood facility. The vast majority of materials handled consist of slag (raw material) and slag wool (product) that are not listed materials.~~

- d. **40 CFR 63 Subpart DDD – National Emission Standards for Hazardous Air Pollutants for Mineral Wool Production.** The Millwood plant is not classified as a major HAP source because potential HAP emissions are < 10/25 tpy for any single/combination of HAPs. In addition, the EAF is not classified as

a “cupola” and the plant does not operate a mineral wool “curing oven”. For these reasons, the “mineral wool production NESHAP” at 40 CFR 63 Subpart DDD is not applicable.

- e. **40 CFR 63 Subpart JJJJJJ – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources.** The Millwood plant does not operate boilers and is therefore not subject to the Subpart JJJJJJ Area Source ICI Boiler NESHAP.
- f. **45CSR17 - WV Fugitive emissions from material handling.** Per 45CSR§7-6.1. if sources are subject to 45CSR7 they are exempt from the requirements of this Rule.
- g. **45CSR19 and 45CSR21 NSR permitting for non-attainment areas and VOC Regulations.** The Millwood plant is not located in affected areas.
- h. **45CSR27 - Emissions of Toxic Air Pollutants.** The Millwood plant does not operate any “chemical processing units” and does not use listed chemicals.

4.0 Manufacturing Process Sources Requirements [1S, 3S, 4S, 6S, 9S, 11S, 15S, 16S, ~~18S~~]

4.1. Limitations and Standards

4.1.1. Emissions from the facility shall not exceed the limitations set forth in Tables 4.1.1.1 and 4.1.1.2:

Table 4.1.1.1.

| Source | PM | | PM ₁₀ ¹ | | NO _x | | VOC | | SO ₂ | | CO | |
|-----------------------------|----------------|-----------------|-------------------------------|-----------------|-----------------|-----------------|-------------------------|-------------------------|-----------------|--------|--------------------|-----------------|
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| 1S | 2.60 | 11.39 | 2.60 | 11.39 | 5.00 | 21.90 | 5.00 | 21.90 | 55.94 | 245.00 | 55.00 ² | 240.90 |
| 3S | 7.09 | 31.06 | 7.09 | 31.06 | -- | -- | 0.39 0.38 | 1.71 1.65 | -- | -- | -- | -- |
| 4S | 7.09 | 31.06 | 7.09 | 31.06 | -- | -- | 0.39 0.38 | 1.71 1.65 | -- | -- | -- | -- |
| 6S | 1.13 | 4.95 | 1.13 | 4.95 | -- | -- | -- | -- | -- | -- | -- | -- |
| 9S | -- | 1.98 | -- | 0.97 | -- | -- | -- | -- | -- | -- | -- | -- |
| 11S | 0.02 | 0.10 | 0.01 | 0.05 | -- | -- | -- | -- | -- | -- | -- | -- |
| 15S/16S | 2.39 | 10.47 | 2.39 | 10.47 | -- | -- | -- | -- | -- | -- | -- | -- |
| 18S ³ | 0.1 | 0.44 | 0.1 | 0.44 | 0.07 | 0.28 | 0.01 | 0.02 | -- | -- | 0.03 | 0.16 |

¹ All PM₁₀ is assumed to be PM_{2.5} and all PM, PM₁₀, PM_{2.5} emission limits include both filterable and condensable particulate matter.

² Hourly CO emission limits from the EAF are 55.00 pounds per hour based on a rolling 30 day average and 100 pounds per hour based on a rolling 24 hour average.

³ ~~Hourly emissions for the Propane-fueled Sand Dryer (18S) are calculated based on burning 5 gal/hr of propane; Annual emissions for the Propane-fueled Sand Dryer (18S) are based on operating for 8,760 hr/yr.~~

Table 4.1.1.2

| Source | Mn | | VOC HAP | | Total HAP | |
|----------------|-------|------|---------|-----|-----------|------|
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| 1S | 0.28 | 1.25 | -- | -- | 0.28 | 1.25 |
| 3S | 0.78 | 3.40 | -- | -- | 0.78 | 3.40 |
| 4S | 0.78 | 3.40 | -- | -- | 0.78 | 3.40 |
| 6S | -- | -- | -- | -- | -- | -- |
| 9S | 0.02 | 0.22 | -- | -- | 0.02 | 0.22 |
| 11S | 0.01 | 0.01 | -- | -- | 0.01 | 0.01 |
| 15S/16S | 0.26 | 1.15 | -- | -- | 0.26 | 1.15 |
| 18S | -- | -- | -- | -- | -- | -- |

Compliance with the PM emission limits shall demonstrate compliance with the less stringent PM emission limits of 45CSR§7-4.1.

[45CSR13, R13-2864, 4.1.1 and 4.1.9.2, Tables 4.1.1.1 and 4.1.1.2, 45CSR§7-4.1.]

4.1.2. The total annual SO₂ emissions from the Submerged Electric Arc Furnace (1S) shall not exceed 245 tons per year based on a rolling 12 month total basis.

[45CSR13, R13-2864, 4.1.2]

- 4.1.3. The Furnace Dry Scrubber (1C) shall be designed, installed, operated and maintained so as to ensure compliance with the emission limits of 4.1.1. Operation of the scrubber is only required when necessary to meet the emission limits of 4.1.1.

[45CSR13, R13-2864, 4.1.3]

- 4.1.4. For the purpose of complying with the PM/PM₁₀/PM_{2.5} emission limits of condition 4.1.1 of this permit, all of the dust collectors shall be operated according to the following requirements:

The permittee has determined the optimal ranges for the pressure drop across baghouses 2C, 3C, 4C and 7C. The permittee shall maintain on site, and update as necessary, a certified report listing the operating ranges.

[45CSR13, R13-2864, 4.1.4]

- 4.1.5. Manganese content of the slag entering the furnace shall not exceed 10.95% (equivalent to 14.14% MnO).

[45CSR13, R13-2864, 4.1.5]

- 4.1.6. The total annual Mn emissions from the facility shall not exceed 9.6 tons per year based on a rolling 12 month total basis.

[45CSR13, R13-2864, 4.1.12.]

- 4.1.7. Fugitive particulate emissions resulting from use of haulroads and mobile work areas shall be minimized by the following:

- a. The permittee shall maintain a water truck ([or other equivalent substitute such as an ATV-type vehicle equipped with a spray rig](#)) on site and in good operating condition, and shall utilize same to apply a either water or a mixture of water and an environmentally acceptable dust control additive, hereinafter referred to as solution, as often as is necessary in order to minimize the atmospheric entrainment of fugitive particulate emissions that may be generated from unpaved haulroads and other unpaved work areas where mobile equipment is used. The spraybar shall be equipped with commercially available spray nozzles, of sufficient size and number, so as to provide adequate coverage to the area being treated.

The pump delivering the solution, shall be of sufficient size and capacity so as to be capable of delivering to the spray nozzle(s) an adequate quantity of solution, and at a sufficient pressure, so as to assure that the treatment process will minimize the atmospheric entrainment of fugitive particulate emissions generated from the unpaved haulroads and work areas where mobile equipment is used.

- b. All unpaved haulroads, access roads, stockpile and work areas shall be kept clean and in good condition by replacing base material and/or grading as required.
- c. If tracking of solids by vehicular traffic from access and/or haulroads onto any public road or highway occurs and generates or has the potential to generate fugitive particulate emissions, the registrant shall properly operate and maintain an underbody truck wash, rumble strips or employ other suitable measures to maintain effective fugitive dust control of the premises and minimize the emission of particulate matter.

[45CSR13, R13-2864, 4.1.6]

- 4.1.8. The permittee shall ensure that the water trucks ([or other equivalent substitute such as an ATV-type vehicle equipped with a spray rig](#)) and/or water sprays are properly equipped with winterization systems capable of operating in a manner such that all such fugitive dust control systems remain effective and functional, to the

maximum extent practicable, during winter months and cold weather. At all times, including periods of cold weather, the registrant shall comply with the water trucks (or other equivalent substitute such as an ATV-type vehicle equipped with a spray rig) and/or water sprays requirements of this permit.

[45CSR13, R13-2864, 4.1.7]

- 4.1.9. Total slag throughput to the EAF shall not exceed 175,200 tons per year on a rolling 12 month total.

[45CSR13, R13-2864, 4.1.8]

- 4.1.10. 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 for 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.

[45CSR§7-3.1 & 45CSR§7-3.2, 45CSR13, R13-2864, 4.1.9.1 (1S, 3S, 4S, 15S, 16S, ~~18S~~)]

- 4.1.11. No person shall cause, suffer, allow or permit visible emissions from any storage structure(s) associated with any manufacturing process that pursuant to Condition 4.1.13. is required to have a full enclosure and be equipped with a particulate matter control device.

[45CSR§7-3.7.] (6S)

- 4.1.12. 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.

[45CSR§7-4.12.]

- 4.1.13. 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.

[45CSR§7-5.1., 45CSR13, R13-2864, 4.1.9.3]

- 4.1.14. 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.

[45CSR§7-5.2., 45CSR13, R13-2864, 4.1.9.4]

- 4.1.15. No person shall cause, suffer, allow or permit the emission into the open air from any source operation an in-stack sulfur dioxide concentration exceeding 2,000 parts per million by volume from existing source operations, except as provided in subdivisions 4.1.a through 4.1.e. of 45CSR10.

[45CSR§10-4.1., 45CSR13, R13-2864, 4.1.10.] (1S)

- 4.1.16. **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 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.

[45CSR§13-5.10., 45CSR13, R13-2864, 4.1.13]

4.2. Monitoring Requirements

- 4.2.1. The permittee shall install, maintain, and operate all monitoring equipment required by this permit in accordance with all manufacturer's recommendations concerning maintenance and performance.
[45CSR13, R13-2864, 4.2.1]
- 4.2.2. The permittee shall conduct visible emission checks and/or opacity monitoring and recordkeeping for all emission sources subject to an opacity limit.

The visible emission check shall determine the presence or absence of visible emissions. At a minimum, the observer must be trained and knowledgeable regarding the effects of background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water (condensing water vapor) on the visibility of emissions. This training may be obtained from written materials found in the References 1 and 2 from 40CFR Part 60, Appendix A, Method 22 or from the lecture portion of the 40CFR Part 60, Appendix A, Method 9 certification course.

Visible emission checks shall be conducted at least once per calendar month with a maximum of forty-five (45) days between consecutive readings. These checks shall be performed at each source (stacks, conveyors, crushers, silos, bins, and screens) for a sufficient time interval, but no less than one (1) minute, to determine if any visible emissions are present. Visible emission checks shall be performed during periods of facility operation and appropriate weather conditions.

If visible emissions are present at a source(s) for three (3) consecutive monthly checks, the permittee shall conduct an opacity reading at that source(s) using the procedures and requirements of Method 9 as soon as practicable, but within seventy-two (72) hours of the final visual emission check. Method 9 checks shall be performed on the source for at least six (6) minutes. A Method 9 observation at a source(s) restarts the count of the number of consecutive readings with the presence of visible emissions.

[45CSR13, R13-2864, 4.2.2] (1S, 3S, 4S, 6S, 15S, 16S, ~~18S~~)

- 4.2.3. The permittee shall install, maintain and operate instrumentation to continuously monitor and record at least once per operating day the control device parameters (1C, 2C, 3C, 4C and 7C) as determined by conditions 4.1.3 and 4.1.4 of this permit at all times that the emission source(s) is/are in operation.
[45CSR13, R13-2864, 4.2.3]
[40 C.F.R. § 64.3(b)(4)(iii); 45CSR§30-5.1.c.] (2C, 7C)
- 4.2.4. A continuous emission monitoring system (CEMS) shall be installed, operated, and maintained to measure the emissions of SO₂ from the EAF exhaust stack. The CEMS shall be designed, installed, operated and maintained in compliance with the USEPA Part 60, Appendix B, Performance Specification 2 as appropriate, and Performance Specification 4, 4a or 4b (CO) as appropriate.
[45CSR13, R13-2864, 4.2.4]
- 4.2.5. For the purposes of demonstrating compliance with the sulfur content limit in 4.1.15 of this permit, analytical testing results showing sulfur content shall be obtained from the fuel supplier. Alternatively, the permittee may obtain a fuel sample of each shipment and perform analytical testing to determine the sulfur content.
[45CSR13, R13-2864, 4.2.5]

- 4.2.6. To show compliance with the SO₂ limit in condition 4.1.2 of this permit, monthly SO₂ emissions from the submerged electric arc furnace shall be calculated (using SO₂ CEMS) by the 15th [day](#) of the subsequent month. A twelve month running total of emissions shall be maintained to verify compliance with the annual emission limitation. Each month a new twelve month total shall be calculated using the previous twelve months of data.

[45CSR13, R13-2864, 4.2.7]

- 4.2.7. In order to determine compliance with conditions 4.1.1. and 4.1.5 of this permit, the permittee shall obtain representative samples from each shipment of slag from each supplier for the first week of operation (i.e. one sample taken from the total slag delivered during the day from each supplier for 1 week) to be analyzed for the Manganese content (percent Manganese by weight). The manganese content from each type of slag shall be averaged for the week in order to determine a baseline manganese content for that supplier's slag. After the first week of samples, the permittee shall continue to collect the weeks worth of samples (i.e. one sample taken from the total slag delivered during the day from each supplier for 1 week) at least once per month to either confirm the existing or reestablish a new baseline Mn level for that supplier. If the permittee adds a new slag supplier, the permittee shall collect samples for each shipment for one week in order to establish the baseline Mn content for that supplier.

If the baseline Mn content of the slag from any supplier exceeds the Mn level permitted in condition 4.1.5 of this permit, Armstrong shall maintain a record documenting, any time that specific slag is used in the furnace, that the Mn content of the slag blend entering the furnace does not exceed the Mn level permitted in Condition 4.1.5 of this permit.

[45CSR13, R13-2864, 4.2.9]

- 4.2.8. A continuous emission monitoring system (CEMS) shall be installed, operated, and maintained to measure the emissions of CO, from the EAF exhaust stack. The CEMS shall be designed, installed, operated and maintained in compliance with the USEPA Part 60, Appendix B, Performance Specification 4, 4a or 4b as appropriate.

[45CSR13, R13-2864, 4.2.6]

- 4.2.9. The permittee shall maintain monthly records of slag throughput to the EAF.

[45CSR13, R13-2864, 4.2.11]

- 4.2.10. To show compliance with the Mn emission limit in condition 4.1.6. of this permit, monthly Mn emissions from the facility shall be calculated (mass balance) by the 15th day of the subsequent month. A twelve month running total of emissions shall be maintained to verify compliance with the annual emission limitation. Each month a new twelve month total shall be calculated using the previous twelve months of data.

[45CSR13, R13-2864, 4.2.12]

- 4.2.11. To show compliance with the CO limit in condition 4.1.1 of this permit, monthly CO emissions from the submerged electric arc furnace shall be calculated (using CO CEMS) by the 15th ~~date~~ [day](#) of the subsequent month. A twelve month running total of emissions shall be maintained to verify compliance with the annual emission limitation. Each month a new twelve month total shall be calculated using the previous twelve months of data.

[45CSR13, R13-2864, 4.2.10]

- 4.2.12. ~~Reserved. To show compliance with the emission limits given in condition 4.1.1. of this permit, the permittee shall keep a monthly record of hours of operation and propane fuel usage for the Sand Dryer (18S). These~~

~~monthly records shall be used to calculate a twelve month rolling average hourly fuel usage rate which should not exceed 5gal/hr of propane consumption.
[45CSR13, R13-2864, 4.2.13.]~~

- 4.2.13. **CAM Indicator Range for 2C** – While the Raw Material Transfer and EAF is operating, the static pressure drop across the Furnace Dust Collector (2C) shall be greater than or equal to 1.0 and less than or equal to 7.0 inches of water column and shall be continuously monitored and recorded at least once per 24-hour period in accordance with condition 4.2.3. The pressure drop monitoring device shall be a Rosemount DP transducer (Model No. 3051CD2A22A1AM5) or equivalent.
[40 C.F.R. §§ 64.3(a), 64.6(c)(1)(i), and 64.6(c)(1)(ii); 45CSR§30-5.1.c.] (1S)
- 4.2.14. **CAM Indicator Range for 7C** – While the Slag Wool Processing Lines #1 or #2 (or both simultaneously) are operating, the static pressure drop across the Fiber Line Baghouse (7C) shall be greater than or equal to 0.5 and less than or equal to 9.0 inches of water column and shall be continuously monitored and recorded at least once per 24-hour period in accordance with condition 4.2.3. The pressure drop monitoring device shall be a Rosemount DP transducer (Model No. 3051CD2A22A1AM5) or equivalent.
[40 C.F.R. §§ 64.3(a), 64.6(c)(1)(i), and 64.6(c)(1)(ii); 45CSR§30-5.1.c.] (1S, 16S)
- 4.2.15. **Excursion Definition for the Raw Material Transfer and EAF** – For the purposes of 40 C.F.R. Part 64, an excursion for the Raw Material Transfer and EAF (1S) is a static pressure drop across the Furnace Dust Collector (2C) outside of the indicator range specified in permit condition 4.2.13. Refer to conditions 4.2.20. (Response to Excursions and Exceedances), 4.4.9. (General recordkeeping requirements for CAM), and 4.5.4. (General reporting requirements for CAM) for recordkeeping and reporting requirements for excursions.
[40 C.F.R. § 64.6(c)(2); 45CSR§30-5.1.c.] (1S)
- 4.2.16. **Excursion Definition for the Slag Wool Processing Lines #1 and #2** – For the purposes of 40 C.F.R. Part 64, an excursion for the Slag Wool Processing Lines #1 and #2 (15S and 16S) is a static pressure drop across the Fiber Line Baghouse (7C) outside of the indicator range specified in permit condition 4.2.14. Refer to conditions 4.2.20. (Response to Excursions and Exceedances), 4.4.9. (General recordkeeping requirements for CAM), and 4.5.4. (General reporting requirements for CAM) for recordkeeping and reporting requirements for excursions.
[40 C.F.R. § 64.6(c)(2); 45CSR§30-5.1.c.] (1S, 16S)
- 4.2.17. **Commencement of operation** – The permittee shall conduct the monitoring required under 40 C.F.R. Part 64 upon issuance of this permit that includes such monitoring.
[40 C.F.R. § 64.7(a); 45CSR§30-5.1.c.] (1S, 15S, 16S)
- 4.2.18. **Proper Maintenance** – At all times, the permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
[40 C.F.R. § 64.7(b); 45CSR§30-5.1.c.] (1S, 15S, 16S)
- 4.2.19. **Continued Operation** – Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of 40 C.F.R. Part 64, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all

other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

[40 C.F.R. § 64.7(c); 45CSR§30-5.1.c.] (1S, 15S, 16S)

4.2.20. Response to Excursions or Exceedances

- (1) Upon detecting an excursion or exceedance, the permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (2) Determination of whether the permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.

[40 C.F.R. § 64.7(d); 45CSR§30-5.1.c.] (1S, 15S, 16S)

- 4.2.21. Documentation of Need for Improved Monitoring** – After approval of monitoring under 40 C.F.R. Part 64, if the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify the Director and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

[40 C.F.R. § 64.7(e); 45CSR§30-5.1.c.] (1S, 15S, 16S)

- 4.2.22. Quality Improvement Plan (QIP)** – Based on the results of a determination made under §64.7(d)(2) (Response to excursions or exceedances, permit condition 4.2.20.(2)), the Administrator or the Director may require the permittee to develop and implement a QIP. If a QIP is required, then it shall be developed, implemented, and modified as required according to 40 C.F.R. §§ 64.8(b) through (e). Refer to permit condition 4.5.4.(2)c. for the reporting required when a QIP is implemented. Notwithstanding the Administrator or the Director requiring the permittee to develop a QIP, the permittee proposed an accumulation of exceedances or excursions exceeding 10 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, for requiring the implementation of a QIP.

[40 C.F.R. § 64.8; 45CSR§30-5.1.c.] (1S, 15S, 16S)

4.3. Testing Requirements

4.3.1. The permittee shall complete the following performance testing:

4.3.1.1. The permittee shall perform or have performed EPA approved stack tests to determine emissions of NO_x, VOCs, PM and PM₁₀ from the submerged electric arc furnace.

4.3.1.2. The permittee shall perform or have performed EPA approved stack tests to determine emissions of PM and PM₁₀ from one of the spinner collection chambers.

4.3.1.3. The permittee shall perform or have performed EPA approved stack tests to determine emissions of Manganese from one of the spinner collection chambers and the submerged electric arc furnace.

[45CSR13, R13-2864, 4.3.1]

4.3.2. Ongoing compliance shall be demonstrated by repeating the above testing (condition 4.3.1.) according to the following schedule:

| Test | Test Results | Testing Frequency |
|--------------|---|-------------------------|
| Initial | < 10% of limits | Upon Director's Request |
| Initial | Between 10% and 50% of limits | Once/5 years |
| Initial | Between 50% and 90% limits | Once/3 years |
| Initial | ≥90% of limits | Annual |
| Annual | After two successive tests indicate emission rates ≤50% of limits | Once/5 years |
| Annual | After two successive tests indicate emission rates <90% of limits | Once/3 years |
| Annual | ≥90% of limits | Annual |
| Once/3 years | After two successive tests indicate emission rates ≤50% of limits | Once/5 years |
| Once/3 years | After two successive tests indicate emission rates <90% of limits | Once/3 years |
| Once/3 years | ≥90% of limits | Annual |
| Once/5 years | After two successive tests indicate emission rates <10% of limits | Upon Director's Request |
| Once/5 years | ≤50% of limits | Once/5 years |
| Once/5 years | Between 50% and 90% of limits | Once/3 years |
| Once/5 years | ≥90% of limits | Annual |

[45CSR13, R13-2864, 4.3.2]

4.3.3. **Quality Assurance / Quality Control Practice** – For the Furnace Dust Collector (2C) and Fiber Line Baghouse (7C), the differential pressure sensing devices shall be electrically tested semi-annually to verify correct readings and that accurate data is being sent to the data logging system. The reading shall be within 0.15 in. of water column. If a reading differs in a value greater than 0.15 in. water column, a vendor shall be utilized as expeditiously as practicable to calibrate the differential pressure sensing device. A vendor shall be

scheduled for a regular calibration visit every 3 years. Records of the testing and calibrations shall be maintained in accordance with conditions 3.4.1. and 3.4.2.
[40 C.F.R. § 64.3(b)(3); 45CSR§30-5.1.c.] (*1S, 15S, 16S*)

4.4. Recordkeeping Requirements

4.4.1. **Record of Maintenance of Air Pollution Control Equipment.** For all pollution control equipment listed in Section 1.0, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures.
[45CSR13, R13-2864, 4.4.2.]

4.4.2. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 1.0, 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, R13-2864, 4.4.3.]

4.4.3. In order to determine compliance with condition 4.1.5 of this permit, the permittee shall keep monthly records of the Manganese content of the slag. Upon request the records shall be certified and made available to the Director or his/her duly authorized representative.
[45CSR13, R13-2864, 4.4.4]

4.4.4. The permittee shall maintain monthly records of slag wool production from the facility. Upon request the records shall be certified and made available to the Director or his/her duly authorized representative.
[45CSR13, R13-2864, 4.2.8. and 4.4.5]

4.4.5. In order to demonstrate compliance with the requirements of 4.2.2 of this permit, records of the Method 22 testing and any necessary Method 9 testing shall be retained on site by the permittee for at least five (5) years. Upon request the records shall be certified and made available to the Director or his/her duly authorized representative.
[45CSR13, R13-2864, 4.4.6]

4.4.6. In order to determine compliance with the requirements of conditions 4.1.15 and 4.2.5 of this permit, the permittee shall maintain records of the fuel oil sulfur content. Upon request the records shall be certified and made available to the Director or his/her duly authorized representative.
[45CSR13, R13-2864, 4.4.7]

- 4.4.7. In order to determine compliance with the requirements of condition 4.1.4 of this permit, the permittee shall maintain daily records of the pressure drop across each baghouse. Upon request the records shall be certified and made available to the Director or his/her duly authorized representative.
[45CSR13, R13-2864, 4.4.8]
- 4.4.8. In order to determine compliance with condition 4.2.9 of this permit, the permittee shall maintain monthly records of slag throughput to the EAF. Upon request the records shall be certified and made available to the Director or his/her duly authorized representative.
[45CSR13, R13-2864, 4.4.9]
- 4.4.9. **General recordkeeping requirements for 40 C.F.R. Part 64 (CAM).** The permittee shall comply with the recordkeeping requirements specified in permit conditions 3.4.1. and 3.4.2. The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 C.F.R. §64.8 (condition 4.2.22.) and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 C.F.R. Part 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).
[40 C.F.R. § 64.9(b); 45CSR§30-5.1.c.] (1S, 15S, 16S)

4.5. Reporting Requirements

- 4.5.1. Any violations of the allowable visible emission requirement for any emission source discovered during testing must be reported in writing to the Director of the Division of Air Quality as soon as practicable, but within ten calendar days, of the occurrence and shall include, at a minimum, the following information: the results of the visible determination of opacity of emissions, the cause or suspected cause of the violation(s), and any corrective measures taken or planned.
[45CSR13, R13-2864, 4.5.1]
- 4.5.2. With regard to testing required by section 4.3 of this permit, results shall be submitted to the Director no more than 60 days after the date the testing takes place.
[45CSR13, R13-2864, 4.5.2]
- 4.5.3. The permittee shall comply with all applicable reporting requirements of 45CSR7, 45CSR10, and 45CSR13.
[45CSR13, R13-2864, 4.5.3]
- 4.5.4. **General reporting requirements for 40 C.F.R. Part 64 (CAM)**
- (1) On and after the date specified in 40 C.F.R. §64.7(a) by which the permittee must use monitoring that meets the requirements of 40 C.F.R. 64, the permittee shall submit CAM monitoring reports to the permitting authority in accordance with condition 3.5.6.
 - (2) A report for monitoring under 40 C.F.R. 64 shall include, at a minimum, the information required under permit condition 3.5.8. and the following information, as applicable:
 - a. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

- b. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
- c. A description of the actions taken to implement a QIP during the reporting period as specified in 40 C.F.R. §64.8. Upon completion of a QIP, the permittee shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

[40 C.F.R. § 64.9(a); 45CSR§30-5.1.c.] (*1S, 15S, 16S*)

4.6. Compliance Plan

- 4.6.1. Reserved.

5.0 ~~Storage Tanks [12S and 13S]~~ and Cooling Tower Requirements [10S and 17S]

5.1. Limitations and Standards

5.1.1. Reserved. ~~Emissions from the storage tanks shall not exceed the limitations set forth below:~~

| Source | VOC | | VOC HAP | | Total HAP | |
|--------|-------|------|---------|------|-----------|------|
| | lb/hr | tpy | lb/hr | tpy | lb/hr | tpy |
| 12S | 0.02 | 0.07 | 0.02 | 0.07 | 0.02 | 0.07 |
| 13S | 0.01 | 0.04 | 0.01 | 0.04 | 0.01 | 0.04 |

~~[45CSR13, R13-2864, 4.1.1, Tables 4.1.1.1 & 4.1.1.2; State-enforceable only]~~

5.1.2. Emissions from the cooling towers shall not exceed the limitations set forth below:

| Source | PM | | PM ₁₀ ¹ | |
|--------|-------|------|-------------------------------|------|
| | lb/hr | tpy | lb/hr | tpy |
| 10S | 0.77 | 3.37 | 0.77 | 3.37 |
| 17S | 0.41 | 1.80 | 0.41 | 1.80 |

¹All PM₁₀ is assumed to be PM_{2.5} and all PM, PM₁₀, PM_{2.5} emission limits include both filterable and condensable particulate matter.

~~[45CSR13, R13-2864, 4.1.1, Table 4.1.1.1; State-enforceable only]~~

5.2. Monitoring Requirements

5.2.1. Reserved.

5.3. Testing Requirements

5.3.1. Reserved.

5.4. Recordkeeping Requirements

5.4.1. Reserved.

5.5. Reporting Requirements

5.5.1. Reserved.

5.6. Compliance Plan

5.6.1. Reserved.

6.0 Backup Generator Requirements [7S]

6.1 Limitations and Standards

6.1.1. Emissions from the Backup Generator, 7S, shall not exceed the following limitations:

| Pollutant | Hourly limit in lb/hr | Annual limit in tpy |
|-------------------------------|-----------------------|---------------------|
| PM | 0.08 | 0.02 |
| PM ₁₀ ¹ | 0.08 | 0.02 |
| NO _x | 8.17 | 2.04 |
| VOC | 0.07 | 0.02 |
| SO ₂ | 0.31 | 0.08 |
| CO | 1.93 | 0.48 |
| VOC HAP | 0.01 | 0.002 |
| Total HAP | 0.01 | 0.002 |

¹ All PM₁₀ is assumed to be PM_{2.5} and all PM, PM₁₀, PM_{2.5} emission limits include both filterable and condensable particulate matter.

[45CSR13, R13-2864, 4.1.1, Tables 4.1.1.1 and 4.1.1.2; State-enforceable only]

6.1.2. The permittee shall comply with all applicable requirements of 40 CFR 60 Subpart IIII (Backup Generator 7S) including but not limited to the following:

Emissions from the Backup Generator (7S) shall not exceed the following:

| NO _x +NMHC (g/kW-hr) | CO (g/kW-hr) | PM (g/kW-hr) |
|---------------------------------|--------------|--------------|
| 4.0 | 3.5 | 0.20 |

[40 C.F.R. §60.4205(b); 45CSR13, R13-2864, 4.1.11.1; 45CSR16; 40 C.F.R. §§63.6590(c) and (c)(1); 45CSR34]

6.1.3. Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in §60.4205 over the entire life of the engine.

[40 C.F.R. §60.4206; 45CSR13, R13-2864, 4.1.11.2; 45CSR16; 40 C.F.R. §§63.6590(c) and (c)(1); 45CSR34]

6.1.4. The nonroad diesel fuel that is used in the backup generator must have a sulfur content less than 15 parts per million. The nonroad diesel fuel must have a minimum cetane index of 40, or a maximum aromatic content of 35 volume percent.

[40 C.F.R. §60.4207(b); 45CSR13, R13-2864, 4.1.11.3; 45CSR16; 40 C.F.R. §§63.6590(c) and (c)(1); 45CSR34]

6.1.5. a. If you are an owner or operator and must comply with the emission standards specified in this subpart, you must do all of the following, except as permitted under Condition 6.1.5.c. of this permit:

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 part 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 Condition 6.1.2. of this permit, you must comply by purchasing an engine certified to the emission standards in Condition 6.1.2. 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 Condition 6.1.5.c. of this permit.
 - c. 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:

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.

[40 C.F.R. §§ 60.4211(a), (c), (g), and (g)(3); 45CSR16; 40 C.F.R. §§63.6590(c) and (c)(1); 45CSR34]

- 6.1.6. If you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in paragraphs (f)(1) through (3) of this condition. In order for the engine to be considered an emergency stationary ICE under this subpart, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (3), is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (3), 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 ICE in emergency situations.
 - (2) You may operate your emergency stationary ICE for the purposes specified in paragraph (f)(2)(i) of this condition for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (f)(3) of this condition counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).
 - (i) Emergency stationary ICE 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, 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 ICE beyond 100 hours per calendar year.

- (3) Emergency stationary ICE 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 provided in paragraph (f)(2) of this condition.

[40 C.F.R. §60.4211(f); 45CSR16; 40 C.F.R. §§63.6590(c) and (c)(1); 45CSR34]

6.2. Monitoring Requirements

- 6.2.1. 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.

[40 C.F.R. §60.4209(b); 45CSR16; 40 C.F.R. §§63.6590(c) and (c)(1); 45CSR34]

6.3. Testing Requirements

- 6.3.1. The permittee shall comply with all applicable testing requirements of 40 CFR 60 Subpart IIII.
[45CSR13, R13-2864, 4.3.3]

6.4. Recordkeeping Requirements

- 6.4.1. Reserved.

6.5. Reporting Requirements

- 6.5.1. The permittee shall comply with all applicable reporting requirements of 40 CFR 60 Subpart IIII.
[45CSR13, R13-2864, 4.5.3]

6.6. Compliance Plan

- 6.6.1. Reserved.