

**STATE OF MISSISSIPPI
AIR POLLUTION CONTROL
TITLE V PERMIT
TO OPERATE AIR EMISSIONS EQUIPMENT
THIS CERTIFIES THAT**

Nucor Steel Jackson, Inc.
3630 4th Street
Flowood, Mississippi
Rankin County

has been granted permission to operate air emissions equipment in accordance with emission limitations, monitoring requirements and conditions set forth herein. This permit is issued in accordance with Title V of the Federal Clean Air Act (42 U.S.C.A. § 7401 - 7671) and the provisions of the Mississippi Air and Water Pollution Control Law (Section 49-17-1 et. seq., Mississippi Code of 1972), and the regulations and standards adopted and promulgated thereunder.

Permit Issued: _____

Effective Date: As specified herein.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD

**AUTHORIZED SIGNATURE
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY**

Expires: [Date not to exceed 5 years from issuance]

Permit No.: 2380-00003

Draft/Proposed- 06/08/2020

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APPENDIX A LIST OF ABBREVIATIONS USED IN THIS PERMIT

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REGULATIONS REFERENCED IN THIS PERMIT:

40 CFR PART 60, SUBPART AAa – STANDARDS OF PERFORMANCE FOR STEEL PLANTS: ELECTRIC ARC FURNACES AND ARGON-OXYGEN DECARBURIZATION VESSELS CONSTRUCTED AFTER AUGUST 17, 1983

40 CFR PART 63, SUBPART YYYYYY – NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR ELECTRIC ARC FURNACE STEELMAKING FURNACES (AREA SOURCES)

40 CFR PART 63, SUBPART CCCCCC – NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORY: GASOLINE DISPENSING FACILITIES (AREA SOURCES)

40 CFR PART 64 – COMPLIANCE ASSURANCE MONITORING

SECTION 1. GENERAL CONDITIONS

- 1.1 The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Federal Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(a).)

- 1.2 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.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(b).)

- 1.3 This permit and/or any part thereof 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.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(c).)

- 1.4 Prior to its expiration, this permit may be reopened in accordance with the provisions listed below.

(a) This permit shall be reopened and revised under any of the following circumstances:

- (1) Additional applicable requirements under the Federal Act become applicable to a major Title V source with a remaining permit term of 3 or more years. Such a reopening shall be completed no later than 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.
- (2) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
- (3) The Permit Board or EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emission

standards or other terms or conditions of the permit.

- (4) The Administrator or the Permit Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- (b) Proceedings to reopen and issue this permit shall follow the same procedures as apply to initial permit issuance and shall only affect those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.
- (c) Reopenings shall not be initiated before a notice of such intent is provided to the Title V source by the DEQ at least 30 days in advance of the date that the permit is to be reopened, except that the Permit Board may provide a shorter time period in the case of an emergency.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.G.)

- 1.5 The permittee shall furnish to the DEQ within a reasonable time any information the DEQ 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 DEQ copies of records required to be kept by the permittee or, for information to be confidential, the permittee shall furnish such records to DEQ along with a claim of confidentiality. The permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(e).)

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

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(6)(d).)

- 1.7 The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstances, is challenged or held invalid, the validity of the remaining permit provisions and/or portions thereof or their application to other persons or sets of circumstances, shall not be affected thereby.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(5).)

- 1.8 The permittee shall pay to the DEQ an annual permit fee. The amount of fee shall be determined each year based on the provisions of regulated pollutants for fee purposes and the fee schedule specified in the Commission on Environmental Quality's order which shall be issued in accordance with the procedure outlined in Regulation 11 Miss. Admin. Code Pt. 2, Ch. 6.

- (a) For purposes of fee assessment and collection, the permittee shall elect for actual or

allowable emissions to be used in determining the annual quantity of emissions unless the Commission determines by order that the method chosen by the applicant for calculating actual emissions fails to reasonably represent actual emissions. Actual emissions shall be calculated using emission monitoring data or direct emissions measurements for the pollutant(s); mass balance calculations such as the amounts of the pollutant(s) entering and leaving process equipment and where mass balance calculations can be supported by direct measurement of process parameters, such direct measurement data shall be supplied; published emission factors such as those relating release quantities to throughput or equipment type (e.g., air emission factors); or other approaches such as engineering calculations (e.g., estimating volatilization using published mathematical formulas) or best engineering judgments where such judgments are derived from process and/or emission data which supports the estimates of maximum actual emission.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.A(2).)

- (b) If the Commission determines that there is not sufficient information available on a facility's emissions, the determination of the fee shall be based upon the permitted allowable emissions until such time as an adequate determination of actual emissions is made. Such determination may be made anytime within one year of the submittal of actual emissions data by the permittee.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.A(2).)

- (c) If at any time within the year the Commission determines that the information submitted by the permittee on actual emissions is insufficient or incorrect, the permittee will be notified of the deficiencies and the adjusted fee schedule. Past due fees from the adjusted fee schedule will be paid on the next scheduled quarterly payment time.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.D(2).)

- (d) The fee shall be due September 1 of each year. By July 1 of each year, the permittee shall submit an inventory of emissions for the previous year on which the fee is to be assessed. The permittee may elect a quarterly payment method of four (4) equal payments; notification of the election of quarterly payments must be made to the DEQ by the first payment date of September 1. The permittee shall be liable for penalty as prescribed by State Law for failure to pay the fee or quarterly portion thereof by the date due.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.D.)

- (e) If in disagreement with the calculation or applicability of the Title V permit fee, the permittee may petition the Commission in writing for a hearing in accordance with State Law. Any disputed portion of the fee for which a hearing has been requested will not incur any penalty or interest from and after the receipt by the Commission of the hearing petition.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.6.C.)

- 1.9 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 this permit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(8).)

- 1.10 Any document required by this permit to be submitted to the DEQ shall contain a certification by a 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.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.2.E.)

- 1.11 The permittee shall allow the DEQ, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to perform the following:
 - (a) enter upon the permittee's premises where a Title V 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 any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - (d) as authorized by the Federal Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.C(2).)

- 1.12 Except as otherwise specified or limited herein, the permittee shall have necessary sampling ports and ease of accessibility for any new air pollution control equipment, obtained after

May 8, 1970, and vented to the atmosphere.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.I(1).)

- 1.13 Except as otherwise specified or limited herein, the permittee shall provide the necessary sampling ports and ease of accessibility when deemed necessary by the Permit Board for air pollution control equipment that was in existence prior to May 8, 1970.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.I(2).)

- 1.14 Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance where such applicable requirements are included and are specifically identified in the permit or where the permit contains a determination, or summary thereof, by the Permit Board that requirements specifically identified previously are not applicable to the source.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.F(1).)

- 1.15 Nothing in this permit shall alter or affect the following:

- (a) the provisions of Section 303 of the Federal Act (emergency orders), including the authority of the Administrator under that section;
- (b) 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;
- (c) the applicable requirements of the acid rain program, consistent with Section 408(a) of the Federal Act.
- (d) the ability of EPA to obtain information from a source pursuant to Section 114 of the Federal Act.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.F(2).)

- 1.16 The permittee shall comply with the requirement to register a Risk Management Plan if permittee's facility is required pursuant to Section 112(r) of the Act to register such a plan.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.H.)

- 1.17 Expiration of this permit terminates the permittee's right to operate unless a timely and complete renewal application has been submitted. A timely application is one which is submitted at least six (6) months prior to expiration of the Title V permit. If the permittee submits a timely and complete application, the failure to have a Title V permit is not a violation of regulations until the Permit Board takes final action on the permit application.

This protection shall cease to apply if, subsequent to the completeness determination, the permittee fails to submit by the deadline specified in writing by the DEQ any additional information identified as being needed to process the application.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.C(2), R. 6.4.B., and R. 6.2.A(1)(c).)

1.18 The permittee is authorized to make changes within their facility without requiring a permit revision (ref: Section 502(b)(10) of the Act) if:

- (a) the changes are not modifications under any provision of Title I of the Act;
- (b) the changes do not exceed the emissions allowable under this permit;
- (c) the permittee provides the Administrator and the Department with written notification in advance of the proposed changes (at least seven (7) days, or such other time frame as provided in other regulations for emergencies) and the notification includes:
 - (1) a brief description of the change(s),
 - (2) the date on which the change will occur,
 - (3) any change in emissions, and
 - (4) any permit term or condition that is no longer applicable as a result of the change;
- (d) the permit shield shall not apply to any Section 502(b)(10) change.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.F(1).)

1.19 Should the Executive Director of the Mississippi Department of Environmental Quality declare an Air Pollution Emergency Episode, the permittee will be required to operate in accordance with the permittee's previously approved Emissions Reduction Schedule or, in the absence of an approved schedule, with the appropriate requirements specified in 11 Miss. Admin. Code Pt. 2, Ch. 3., "Regulations for the Prevention of Air Pollution Emergency Episodes" for the level of emergency declared.

(Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 3.)

1.20 Except as otherwise provided herein, a modification of the facility may require a Permit to Construct in accordance with the provisions of Regulations 11 Miss. Admin. Code Pt. 2, Ch. 2., "Permit Regulations for the Construction and/or Operation of Air Emissions

Equipment", and may require modification of this permit in accordance with Regulations 11 Miss. Admin. Code Pt. 2, Ch. 6., "Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act". Modification is defined as "[a]ny physical change in or change in the method of operation of a facility which increases the actual emissions or the potential uncontrolled emissions of any air pollutant subject to regulation under the Federal Act emitted into the atmosphere by that facility or which results in the emission of any air pollutant subject to regulation under the Federal Act into the atmosphere not previously emitted. A physical change or change in the method of operation shall not include:

- (a) routine maintenance, repair, and replacement;
- (b) use of an alternative fuel or raw material by reason of an order under Sections 2 (a) and (b) of the Federal Energy Supply and Environmental Coordination Act of 1974 (or any superseding legislation) or by reason of a natural gas curtailment plan pursuant to the Federal Power Act;
- (c) use of an alternative fuel by reason of an order or rule under Section 125 of the Federal Act;
- (d) use of an alternative fuel or raw material by a stationary source which:
 - (1) the source was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 51, Subpart I, or 40 CFR 51.166; or
 - (2) the source is approved to use under any permit issued under 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51, Subpart I, or 40 CFR 51.166;
- (e) an increase in the hours of operation or in the production rate unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Subpart I or 40 CFR 51.166; or
- (f) any change in ownership of the stationary source.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.1.C(15).)

- 1.21 Any change in ownership or operational control must be approved by the Permit Board.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.4.D(4).)

- 1.22 This permit is a Federally approved operating permit under Title V of the Federal Clean Air Act as amended in 1990. All terms and conditions, including any designed to limit the source's potential to emit, are enforceable by the Administrator and citizens under the Federal Act as well as the Commission.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.B(1).)

- 1.23 Except as otherwise specified or limited herein, the open burning of residential, commercial, institutional, or industrial solid waste, is prohibited. This prohibition does not apply to infrequent burning of agricultural wastes in the field, silvicultural wastes for forest management purposes, land-clearing debris, debris from emergency clean-up operations, and ordnance. Open burning of land-clearing debris must not use starter or auxiliary fuels which cause excessive smoke (rubber tires, plastics, etc.); must not be performed if prohibited by local ordinances; must not cause a traffic hazard; must not take place where there is a High Fire Danger Alert declared by the Mississippi Forestry Commission or Emergency Air Pollution Episode Alert imposed by the Executive Director and must meet the following buffer zones.

- (a) Open burning without a forced-draft air system must not occur within 500 yards of an occupied dwelling.
- (b) Open burning utilizing a forced-draft air system on all fires to improve the combustion rate and reduce smoke may be done within 500 yards of but not within 50 yards of an occupied dwelling.
- (c) Burning must not occur within 500 yards of commercial airport property, private airfields, or marked off-runway aircraft approach corridors unless written approval to conduct burning is secured from the proper airport authority, owner or operator.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.G.)

- 1.24 Except as otherwise specified herein, the permittee shall be subject to the following provision with respect to emergencies:

- (a) Except as otherwise specified herein, 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.

- (b) An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in (c) following are met.
- (c) The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs, or other relevant evidence that include information as follows:
 - (1) an emergency occurred and that the permittee can identify the cause(s) of the emergency;
 - (2) the permitted facility was at the time being properly operated;
 - (3) 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
 - (4) the permittee submitted notice of the emergency to the DEQ within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
- (d) In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (e) This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.G.)

1.25 Except as otherwise specified herein, the permittee shall be subject to the following provisions with respect to upsets, startups, and shutdowns.

- (a) Upsets (as defined in 11 Miss. Admin. Code Pt. 2, R. 1.2.)
 - (1) For an upset, the Commission may pursue an enforcement action for noncompliance with an emission standard or other requirement of an applicable rule, regulation, or permit. In determining whether to pursue enforcement action, and/or the appropriate enforcement action to take, the Commission may consider whether the source has demonstrated through properly signed

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contemporaneous operating logs or other relevant evidence the following:

- (i) An upset occurred and that the source can identify the cause(s) of the upset;
 - (ii) The source was at the time being properly operated;
 - (iii) During the upset the source took all reasonable steps to minimize levels of emissions that exceeded the emission standard or other requirement of an applicable rule, regulation, or permit;
 - (iv) That within 5 working days of the time the upset began, the source submitted a written report to the Department describing the upset, the steps taken to mitigate excess emissions or any other noncompliance, and the corrective actions taken and;
 - (v) That as soon as practicable but no later than 24 hours of becoming aware of an upset that caused an immediate adverse impact to human health or the environment beyond the source boundary or caused a general nuisance to the public, the source provided notification to the Department.
- (2) In any enforcement proceeding by the Commission, the source seeking to establish the occurrence of an upset has the burden of proof.
 - (3) This provision is in addition to any upset provision contained in any applicable requirement.
 - (4) These upset provisions apply only to enforcement actions by the Commission and are not intended to prohibit EPA or third party enforcement actions.
- (b) Startups and Shutdowns (as defined in 11 Miss. Admin. Code Pt. 2, R. 1.2.)
- (1) Startups and shutdowns are part of normal source operation. Emission limitations apply during startups and shutdowns unless source specific emission limitations or work practice standards for startups and shutdowns are defined by an applicable rule, regulation, or permit.
 - (2) Where the source is unable to comply with existing emission limitations established under the State Implementation Plan (SIP) and defined in this regulation, 11 Mississippi Administrative Code, Part 2, Chapter 1, the Department will consider establishing source specific emission limitations or work practice standards for startups and shutdowns. Source specific emission

limitations or work practice standards established for startups and shutdowns are subject to the requirements prescribed in 11 Miss. Admin. Code Pt. 2, R. 1.10.B(2)(a) through (e).

- (3) Where an upset as defined in Rule 1.2 occurs during startup or shutdown, see the upset requirements above.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.10.)

- 1.26 The permittee shall comply with all applicable standards for demolition and renovation activities pursuant to the requirements of 40 CFR Part 61, Subpart M, as adopted by reference in Regulation 11 Miss Admin. Code Pt. 2, R. 1.8. The permittee shall not be required to obtain a modification of this permit in order to perform the referenced activities.

(Ref.: 11 Miss Admin. Code Pt. 2, R. 1.8.)

SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES

Emission Point	Facility ID	Description
AB-000	—	Melt Shop Operations (including fugitive emissions)
AB-001	AA-003 & E3	“EAF Baghouse” - 400,000 cfm baghouse controlling emissions from the electric arc furnace, equipped with an oxygen-carbon injection system and a bottom tap system, which has the capability to process either metallurgical carbon or waste tire carbon, for a total capacity of 550,000 tons of liquid steel per year.
AB-002	AA-002 & E2	“Caster Baghouse” - 360,000 cfm baghouse controlling emissions from the continuous three strand, curved mold billet caster and electric arc furnace.
AC-000	—	Dust Handling/Transfer Operation Silo
AD-000	—	Rolling Mill Operations
AD-001	AA-001 & E1	140 MMBtu/hr natural gas-fired billet reheat furnace
AD-002	AA-006 & E6	Rolling mill operations including fugitive emissions
AE-000	—	Plant-wide Traffic Fugitive Emissions
AF-000	—	General Recycling Operations
AF-001	AA-008 & E8	Dry cyclone controlling emissions from the scrap shredder discharge belt and from the “Z” drop.
AG-000	—	Scrap Handling (located adjacent to the melt shop)
AH-000	—	Gasoline Dispensing Facility including one (1) 3,000-gallon gasoline storage tank at the rolling mill and one (1) 300-gallon gasoline storage tank at the general recycling operations

SECTION 3. EMISSION LIMITATIONS & STANDARDS

A. Facility-Wide Emission Limitations & Standards

- 3.A.1 Except as otherwise specified or limited herein, the permittee shall not cause, permit, or allow the emission of smoke from a point source into the open air from any manufacturing, industrial, commercial or waste disposal process which exceeds forty (40) percent opacity subject to the exceptions provided in (a) & (b).
- (a) Startup operations may produce emissions which exceed 40% opacity for up to fifteen (15) minutes per startup in any one hour and not to exceed three (3) startups per stack in any twenty-four (24) hour period.
 - (b) Emissions resulting from soot blowing operations shall be permitted provided such emissions do not exceed 60 percent opacity, and provided further that the aggregate duration of such emissions during any twenty-four (24) hour period does not exceed ten (10) minutes per billion BTU gross heating value of fuel in any one hour.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.A.)

- 3.A.2 Except as otherwise specified or limited herein, the permittee shall not cause, allow, or permit the discharge into the ambient air from any point source or emissions, any air contaminant of such opacity as to obscure an observer's view to a degree in excess of 40% opacity, equivalent to that provided in Condition 3.A.1. This shall not apply to vision obscuration caused by uncombined water droplets.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.B.)

B. Emission Point Specific Emission Limitations & Standards

Emission Points	Applicable Requirement	Condition Number	Pollutant/Parameter	Limit/Standard
AB-000 AG-000	40 CFR Part 63, Subpart YYYYYY – National Emission Standards for Hazardous Air Pollutants for Area Sources: Electric Arc Furnace Steelmaking Facilities 40 CFR 63.10680(a), 63.10690(a), and Table 1; Subpart YYYYYY	3.B.1	HAPs	Applicability
AB-000 AC-000	40 CFR Part 60, Subpart AAa – Standards of Performance for Steel Plants: Electric Arc Furnaces and Argon-Oxygen Decarburization Vessels Constructed After August 17, 1983 40 CFR 60.270a; Subpart AAa	3.B.2	PM Opacity	Applicability
AB-000	40 CFR 63.10686(b)(2); Subpart YYYYYY and 40 CFR 60.272a(a)(3); Subpart AAa	3.B.3	Opacity	6%
AB-001 AB-002	40 CFR 60.272a(a)(2); Subpart AAa	3.B.4	Opacity	3%
	40 CFR 63.10686(b)(1); Subpart YYYYYY and 40 CFR 60.272a(a)(1); Subpart AAa	3.B.5	PM (filterable only)	0.0052 gr/dscf
	PSD Construction Permit Issued December 9, 2008	3.B.6	PM/PM ₁₀ /PM _{2.5} (filterable only)	0.0018 gr/dscf (each) (BACT limit)
		3.B.7		36.1 tpy (combined limits for AB-001 & AB-002)
		3.B.8	VOC	0.2323 lb/ton of liquid steel 16.22 lb/hr 63.24 tpy (combined limits for AB-001 & AB-002)

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Emission Points	Applicable Requirement	Condition Number	Pollutant/Parameter	Limit/Standard
AB-001 AB-002	PSD Construction Permit Issued December 9, 2008	3.B.9	SO ₂	0.2323 lb/ton of liquid steel 16.22 lb/hr 63.24 tpy (combined limits for AB-001 & AB-002)
AB-001 AB-002	PSD Construction Permit Issued December 9, 2008	3.B.10	CO	2.141 lb/ton of liquid steel 149.47 lb/hr 582.95 tpy (combined limits for AB-001 & AB-002)
		3.B.11	NO _x	0.27 lb/ton of liquid steel (BACT) 16.95 lb/hr 74.24 tpy (combined limits for AB-001 & AB-002)
		3.B.12	Lead	0.12 tpy (combined limit for AB-001 & AB-002)
AB-001 AB-002 AF-001	40 CFR Part 64 – Compliance Assurance Monitoring 40 CFR 64.2(a)	3.B.13	PM	CAM Applicability
AC-000	40 CFR 60.272a(b); Subpart AAa	3.B.14	Opacity	10%
AD-001	Construction Permit Issued January 22, 1991	3.B.15	SO ₂	0.5 tpy
		3.B.16	CO	24.5 tpy
		3.B.17	VOC	3.42 tpy
		3.B.18	PM (filterable only)	3.10 tpy
		3.B.19	NO _x	162.5 tpy
AF-000	11 Miss. Admin. Code Pt. 2, R. 1.3.F(1).	3.B.20	PM	$E = 4.1(p)^{0.67}$

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Emission Points	Applicable Requirement	Condition Number	Pollutant/Parameter	Limit/Standard
AH-000	40 CFR Part 63, Subpart CCCCCC – National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities 40 CFR 63.11111(a), 63.11112(a), 63.11130, and Table 3; Subpart CCCCCC	3.B.21	HAPs	Applicability

3.B.1 For Emission Points AB-000 and AG-000, the permittee is subject to and shall comply with all applicable requirements of 40 CFR Part 63, Subpart YYYYYY – National Emission Standards for Hazardous Air Pollutants for Area Sources: Electric Arc Furnace Steelmaking Furnaces and shall comply with all applicable requirements of 40 CFR Part 63, Subpart A – General Provisions, as specified in Table 1 of Subpart YYYYYY.

(Ref.: 40 CFR 63.10680(a), 63.10690(a), and Table 1; Subpart YYYYYY)

3.B.2 For Emission Points AB-000 and AC-000, the permittee is subject to and shall comply with all applicable requirements of 40 CFR Part 60, Subpart AAa – New Source Performance Standards for Steel Plants: Electric Arc Furnaces and Argon-Oxygen Decarburization Vessels Constructed After August 17, 1983 and shall comply with all applicable requirements of 40 CFR Part 60, Subpart A – General Provisions.

(Ref.: 40 CFR 60.270a; Subpart AAa)

3.B.3 For Emission Point AB-000, the permittee shall not cause to be discharged into the atmosphere from the EAF any gases which exit from the melt shop and, due solely to the operations of the EAF, exhibit 6 percent opacity or greater.

(Ref.: 40 CFR 63.10686(b)(2); Subpart YYYYYY and 40 CFR 60.272a(a)(3); Subpart AAa)

3.B.4 For Emission Points AB-001 and AB-002, the permittee shall not cause to be discharged into the atmosphere from the EAF any gases which exit the baghouses and exhibit 3 percent opacity or greater.

(Ref.: 40 CFR 60.272a(a)(2); Subpart AAa)

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- 3.B.5 For Emission Points AB-001 and AB-002, the permittee shall not cause to be discharged into the atmosphere from the EAF any gases which exit the baghouses and contain particulate matter (PM) in excess of 0.0052 grains per dry standard cubic feet (gr/dscf).

(Ref.: 40 CFR 63.10686(b)(1); Subpart YYYYYY and 40 CFR 60.272a(a)(1); Subpart AAa)

- 3.B.6 For Emission Points AB-001 and AB-002, the permittee shall limit Particulate Matter (includes PM₁₀ and PM_{2.5}) (filterable only) emissions to no more than 0.0018 grains per dry standard cubic feet (each) utilizing the Direct Evacuation Control System and Fabric Filter Baghouse. (BACT limit for PM, PM₁₀, and PM_{2.5})

(Ref.: PSD Construction Permit Issued December 9, 2008)

- 3.B.7 For Emission Points AB-001 and AB-002, the permittee shall limit the combined particulate matter (includes PM₁₀ and PM_{2.5}, filterable only) emissions to no more than 36.1 tons per year, for each consecutive 12-month period.

(Ref.: PSD Construction Permit Issued December 9, 2008)

- 3.B.8 For Emission Points AB-001 and AB-002, the permittee shall limit the combined volatile organic compounds (VOCs) emissions to no more than 0.2323 pounds per ton of liquid steel per thirteen (13) week period, rolled weekly; 16.22 pounds per hour, rolled monthly; and 63.24 tons per year, determined for each consecutive 12-month period.

(Ref.: PSD Construction Permit Issued December 9, 2008)

- 3.B.9 For Emission Points AB-001 and AB-002, the permittee shall limit the combined sulfur dioxide (SO₂) emissions to no more than 0.2323 pounds per ton of liquid steel per thirteen (13) week period, rolled weekly; 16.22 pounds per hour on a seven (7) day average, rolled hourly; and 63.24 tons per year, rolled monthly, determined for each consecutive 12-month period.

(Ref.: PSD Construction Permit Issued December 9, 2008)

- 3.B.10 For Emission Points AB-001 and AB-002, the permittee shall limit the combined emissions of carbon monoxide (CO) emissions to no more than 2.141 pounds per ton of liquid steel per thirteen (13) week period, rolled weekly; 149.47 pounds per hour on a seven (7) day average, rolled hourly; and 582.95 tons per year, determined for each consecutive 12-month period.

(Ref.: PSD Construction Permit Issued December 9, 2008)

- 3.B.11 For Emission Points AB-001 and AB-002, the permittee shall limit the combined emissions from both baghouses of nitrogen oxide (NO_x) to no more than 0.27 pounds per ton of liquid steel per thirteen (13) week period, rolled weekly (BACT for NO_x); 16.95 pounds per hour, on a seven (7) day average, rolled hourly; and 74.24 tons per year, determined for each consecutive 12-month period.

(Ref.: PSD Construction Permit Issued December 9, 2008)

- 3.B.12 For Emission Points AB-001 and AB-002, the permittee shall limit the combined lead emissions to no more than 0.12 tons per year as determined for each consecutive 12-month period.

(Ref.: PSD Construction Permit Issued December 9, 2008)

- 3.B.13 For Emission Points AB-001, AB-002, and AF-001, the permittee is subject to and shall comply with all applicable requirements of 40 CFR Part 64 – Compliance Assurance Monitoring (CAM).

(Ref.: 40 CFR 64.2(a); Compliance Assurance Monitoring)

- 3.B.14 For Emission Point AC-000, the permittee shall not cause to be discharged into the atmosphere from the dust-handling system any gases that exhibit 10 percent opacity or greater.

(Ref.: 40 CFR 60.272a(b); Subpart AAa)

- 3.B.15 For Emission Point AD-001, the permittee shall limit sulfur dioxide (SO₂) emissions to no more than 0.50 tons per year as determined for each consecutive 12-month period.

(Ref.: Construction Permit Issued January 22, 1991)

- 3.B.16 For Emission Point AD-001, the permittee shall limit carbon monoxide (CO) emissions to no more than 24.5 tons per year as determined for each consecutive 12-month period.

(Ref.: Construction Permit Issued January 22, 1991)

- 3.B.17 For Emission Point AD-001, the permittee shall limit volatile organic compound (VOC) emissions to no more than 3.42 tons per year as determined for each consecutive 12-month period.

(Ref.: Construction Permit Issued January 22, 1991)

- 3.B.18 For Emission Point AD-001, the permittee shall limit particulate matter (filterable only) emissions to no more than 3.10 tons per year.

(Ref.: Construction Permit Issued January 22, 1991)

- 3.B.19 For Emission Point AD-001, the permittee shall limit nitrogen oxide (NO_x) emissions to no more than 162.5 tons per year.

(Ref.: Construction Permit Issued January 22, 1991)

- 3.B.20 For Emission Point AF-000, the permittee shall not have emissions of particulate matter (PM), in any one hour, in total quantities in excess of the amount determined by the relationship $E = 4.1(p)^{0.67}$, where E is the emission rate in pounds per hour (lb/hr) and p is the process weight input rate in tons per hour (tph).

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.F(1).)

- 3.B.21 For Emission Point AH-000, the permittee is subject to and shall comply with all applicable requirements of 40 CFR Part 63, Subpart CCCCCC – National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities. The emission sources to which Subpart CCCCCC applies are gasoline storage tanks and associated equipment components in vapor or liquid service. Pressure/Vacuum vents on gasoline storage tanks and the equipment necessary to unload product from cargo tanks into the gasoline storage tanks on-site are covered emission sources. The permittee is also subject to and shall comply with the applicable requirements of 40 CFR Part 63, Subpart A – General Provisions, as specified in Table 3 to Subpart CCCCCC.

(Ref.: 40 CFR 63.11111(a), 63.11112(a), 63.11130, and Table 3; Subpart CCCCCC)

C. Insignificant and Trivial Activity Emission Limitations & Standards

Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.C.1	PM	0.6 lbs/MMBTU
11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).	3.C.2	SO ₂	4.8 lbs/MMBTU

- 3.C.1 The maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations of less than 10 million BTU per hour heat input shall not exceed 0.6 pounds per million BTU per hour heat input.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).)

- 3.C.2 The maximum discharge of sulfur oxides from any fuel burning installation in which the fuel is burned primarily to produce heat or power by indirect heat transfer shall not exceed 4.8 pounds (measured as sulfur dioxide) per million BTU heat input.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.4.A(1).)

D. Work Practice Standards

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
AB-000	40 CFR 63, Subpart YYYYYY – National Emission Standards for Hazardous Air Pollutants for Area Sources: Electric Arc Furnace Steelmaking Facilities 40 CRR 63.10686(a)	3.D.1	PM	Operate and maintain the Direct Evacuation Control System that collects PM emissions from the EAF and conveys emissions to the baghouses
AC-000	PSD Construction Permit issued December 9, 2008	3.D.2	PM/PM ₁₀ /PM _{2.5}	Implement operation and maintenance plan
AD-001	11 Miss. Admin. Code Pt. 2, R. 2.2.B.(10)., as established in Title V Operating Permit issued December 22, 2003	3.D.3	SO ₂ CO VOC PM/PM ₁₀ /PM _{2.5} NO _x	Utilize Operational Ranges
AE-000	PSD Construction Permit issued December 9, 2008	3.D.4	PM/PM ₁₀ /PM _{2.5}	Use wetting agents (BACT) and implement operation and maintenance plan
AG-000	PSD Construction Permit issued December 9, 2008	3.D.5	PM/PM ₁₀ /PM _{2.5}	Limit drop heights (BACT) and implement good work practices
AH-000	40 CFR 63.11115(a); Subpart CCCCCC	3.D.6	HAPs	General duty to minimize emissions
	40 CFR 63.11111(b), 63.11116(a) and (d); Subpart CCCCCC	3.D.7		Requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline

3.D.1 For Emission Point AB-000, the permittee shall operate and maintain the Direct Evacuation Control System that collects the emissions from the EAF (including charging, melting, and tapping operations) and conveys the collected emissions to the baghouses for the removal of particulate matter (PM).

(Ref.: 40 CFR 63.10686(a); Subpart YYYYYY)

3.D.2 For Emission Point AC-000, the permittee shall implement the operation and maintenance plan developed by the permittee for minimizing particulate matter (PM,

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PM₁₀, and PM_{2.5}). The permittee shall, within 60 days of making any changes to the plan, submit a revised operation and maintenance plan to the MDEQ.

(Ref. PSD Construction Permit issued December 9, 2008)

- 3.D.3 For Emission Point AD-001, the permittee shall utilize maintenance schedules, direct visual observations of the equipment/stack, and various parameter monitoring for demonstrating compliance with the SO₂, CO, VOC, PM/PM₁₀/PM_{2.5}, and NO_x emission limits in Conditions 3.B.15 through 3.B.19 of this permit. The parameters to be monitored shall be based on manufacturer's recommendations, good combustion practices, operational history, and visual observation, the combination of which demonstrate the proper operation of the equipment in compliance. Parameters to be monitored by mill operators include: Zone Natural Gas Flows, Zone Air Flows, Calculated Zone Air/Fuel ratio, Zone Temperature Setpoints, Combustion Air Pressure, Combustion Air Temperature, Uptake Temperature, Stack Temperature, and Furnace Pressure.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(10)., as established in Title V Operating Permit issued December 22, 2003)

- 3.D.4 For Emission Point AE-000, to reduce and minimize particulate matter (PM, PM₁₀, and PM_{2.5}) emissions, the permittee shall utilize wetting agents (BACT for PM/PM₁₀/PM_{2.5}) and implement the operation and maintenance plan developed for minimizing particulate matter and demonstrating compliance with BACT for particulate matter. The permittee shall submit any changes to the operation and maintenance plan to the MDEQ.

(Ref.: PSD Construction Permit issued December 9, 2008)

- 3.D.5 For Emission Point AG-000, to minimize particulate matter (PM, PM₁₀, and PM_{2.5}) emissions, the permittee shall limit drop heights (BACT for PM/PM₁₀/PM_{2.5}) and implement good work practices.

(Ref.: PSD Construction Permit issued December 9, 2008)

- 3.D.6 For Emission Point AH-000, the permittee must, at all times, operate and maintain the gasoline dispensing facility, 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 MDEQ 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.

(Ref.: 40 CFR 63.11115(a); Subpart CCCCCC)

3.D.7 For Emission Point AH-000, the permittee shall comply with the following requirements:

- (a) Shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:
 - (1) Minimize gasoline spills;
 - (2) Clean up spills as expeditiously as practicable;
 - (3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;
 - (4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.
- (b) Portable gasoline containers that meet the requirements of 40 CFR Part 59, Subpart F, are considered acceptable for compliance with paragraph (a)(3) of this permit condition.

(Ref.: 40 CFR 63.11111(b), 63.11116(a) and (d); Subpart CCCCC)

SECTION 4. COMPLIANCE SCHEDULE

- 4.1 Unless otherwise specified herein, the permittee shall be in compliance with all requirements contained herein upon issuance of this permit.
- 4.2 Except as otherwise specified herein, the permittee shall submit to the Permit Board and to the Administrator of EPA Region IV a certification of compliance with permit terms and conditions, including emission limitations, standards, or work practices, by January 31 for the preceding calendar year. Each compliance certification shall include the following:
- (a) The identification of each term or condition of the permit that is the basis of the certification;
 - (b) The compliance status;
 - (c) Whether compliance was continuous or intermittent;
 - (d) The method(s) used for determining the compliance status of the source, currently and over the applicable reporting period;
 - (e) Such other facts as may be specified as pertinent in specific conditions elsewhere in this permit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.C(5)(a), (c), & (d).)

SECTION 5. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS

A. General Monitoring, Recordkeeping and Reporting Requirements

- 5.A.1 The permittee shall install, maintain, and operate equipment and/or institute procedures as necessary to perform the monitoring and recordkeeping specified below.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

- 5.A.2 In addition to the recordkeeping specified below, the permittee shall include with all records of required monitoring information the following:

- (a) The date, place as defined in the 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 such analyses; and
- (f) The operating conditions existing at the time of sampling or measurement.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(b)(1).)

- 5.A.3 Except where a longer duration is specified in an applicable requirement, 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 the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(b)(2).)

- 5.A.4 Except as otherwise specified herein, the permittee shall submit reports of any required monitoring by July 31 and January 31 for the preceding six-month period. All instances of deviations from permit requirements must be clearly identified in such reports and all required reports must be certified by a responsible official consistent with 11 Miss.

Admin. Code Pt. 2, R. 6.2.E.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).)

- 5.A.5 Except as otherwise specified herein, the permittee shall report all deviations from permit requirements, including those attributable to upsets, the probable cause of such deviations, and any corrective actions or preventive measures taken. Said report shall be made within five (5) working days of the time the deviation began.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(2).)

- 5.A.6 Except as otherwise specified herein, the permittee shall perform emissions sampling and analysis in accordance with EPA Test Methods and with any continuous emission monitoring requirements, if applicable. All test methods shall be those versions or their equivalents approved by the DEQ and the EPA.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

- 5.A.7 The permittee shall maintain records of any alterations, additions, or changes in equipment or operation.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3).)

B. Specific Monitoring and Recordkeeping Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement
AB-000	40 CFR 60.273a(d); Subpart AAa	5.B.1	Opacity	Conduct daily VEEs from the melt shop
AB-000 AG-000	40 CFR 63.10685(a); Subpart YYYYY	5.B.2	Chlorinated plastics, lead, and free organic liquids	Compliance options for the control of contaminants from scrap
	40 CFR 63.10685(b); Subpart YYYYY	5.B.3	Mercury	Compliance options for the control of contaminants from scrap
	40 CFR 63.10685(c)(1) and (2); Subpart YYYYY.	5.B.4	Chlorinated plastics, lead, free organic liquids, and mercury	Recordkeeping requirements for the control of contaminants from scrap
AB-001 AB-002	40 CFR 63.10686(e); Subpart YYYYY	5.B.5	PM	Comply with CAM requirements
	PSD Construction Permit Issued December 9, 2008	5.B.6	SO ₂ CO NO _x	Operation of Continuous Emissions Monitoring System (CEMS)
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11); established in PSD Construction Permit Issued December 9, 2008 and modified in Title V Operating Permit herein	5.B.7	VOC	Stack testing every 5 years
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2), 40 CFR 60.275a(a), (e)(1), (e)(3), (e)(4), (f), (g), and (j); Subpart AAa	5.B.8	PM (filterable only)	Stack testing every 2 years
	40 CFR 60.273a(c); Subpart AAa	5.B.9	Opacity	Daily visible emissions evaluations (VEEs)
	40 CFR 60.274a(a)(1), (b), (c), 60.276a(a); Subpart AAa	5.B.10	Fan motor amperes & Damper position	Monitoring requirements

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Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirement
AB-001 AB-002	40 CFR 60.274a(a)(2) and (d), 60.276a(a); Subpart AAa	5.B.11	PM	Perform monthly operational status inspections of capture system equipment
	40 CFR 60.274a(e); Subpart AAa	5.B.12	PM	Provision to allow approval of alternative monitoring requirements
	40 CFR 60.274a(h) and 60.276a(a); Subpart AAa	5.B.13	PM	Monitoring requirements during performance testing
	40 CFR 64.3(a) and (b), 64.6(c); CAM	5.B.14	Opacity, fan amps, & damper positions	CAM Requirements: Daily VEEs and monitor the fan amps and damper positions once per shift
AF-001	40 CFR 64.3(a) and (b), 64.6(c); CAM	5.B.15	Fan amps	CAM Requirements: Monitor fan amps at the cyclone daily
AB-001 AB-002 AF-001	40 CFR 64.7(b) and (c); CAM	5.B.16	Operation & Maintenance	Operation and maintenance requirements for monitoring systems
	40 CFR 64.7(d); CAM	5.B.17	Corrective Action	Corrective Action response to an excursion/exceedance of a CAM indicator
	40 CFR 64.8, CAM	5.B.18	QIP	Upon request by MDEQ, develop a Quality Improvement Plan (QIP)
	40 CFR 64.9(b); CAM	5.B.19	CAM Records	Maintain CAM Records as specified
AG-000	PSD Construction Permit Issued December 9, 2008	5.B.20	Drop heights and maintenance	Maintain sufficient records to demonstrate compliance with BACT
AH-000	40 CFR 63.11111(e) and 63.11116(b); Subpart CCCCCC	5.B.21	Gasoline Throughput	Monitor and record monthly gasoline throughput in gallons
AH-000	40 CFR 63.11125(d); Subpart CCCCCC	5.B.22	Malfunctions	Maintain records of occurrence and duration of malfunctions, and corrective actions taken

5.B.1 For Emission Point AB-000, to demonstrate compliance with the opacity standard in Condition 3.B.3, shop opacity observations shall be conducted by a certified visible emission observer at least once per day when the furnace is operating in the meltdown and refining period. Shop opacity shall be determined as the arithmetic average of 24 consecutive 15-second opacity observations of emissions from the shop taken in accordance with Method 9. Shop opacity shall be recorded for any point(s) where visible emissions are observed. Where it is possible to determine that a number of

visible emission sites relate to only one incident of visible emissions, only one observation of shop opacity is required. In this case, the shop opacity observations must be made for the site of highest opacity that directly relates to the cause (or location) of visible emissions observed during a single incident. The permittee shall maintain records of all shop opacity observations made in accordance with this permit condition.

A furnace static pressure monitoring device on the EAF is not required if observations of shop opacity are performed in accordance with this permit condition.

(Ref.: 40 CFR 60.273a(d) and 60.276a(g); Subpart AAa)

5.B.2 For AB-000 and AG-000, the following apply:

Chlorinated plastics, lead, and free organic liquids requirements. For metallic scrap utilized in the EAF, the permittee must comply with the requirements in either (a) or (b) of this permit condition. The permittee may have certain scrap at the facility subject to paragraph (a) and other scrap subject to paragraph (b) provided the scrap remains segregated until charge make-up.

(a) *Pollution Prevention Plan.* For the production of steel other than leaded steel, the permittee must prepare and implement a pollution prevention plan for metallic scrap selection and inspection to minimize the amount of chlorinated plastics, lead, and free organic liquids that is charged to the furnace. For the production of leaded steel, the permittee must prepare and implement a pollution prevention plan for scrap selection and inspection to minimize the amount of chlorinated plastics and free organic liquids in the scrap that is charged to the furnace. The permittee must operate according to the approved plan at all times after approval, and address any deficiency identified by MDEQ within 60 days following disapproval of a plan. The permittee may request approval to revise the plan and may operate according to the revised plan unless and until the revision is disapproved by MDEQ. The permittee must keep a copy of the plan onsite, and the permittee must provide training on the plan's requirements to all plant personnel with materials acquisition or inspection duties. Each plan must include the information in paragraphs (a)(1) through (3) of this permit condition. The requirements of paragraph (a)(1) of this permit condition do not apply to the routine recycling of baghouse bags or other internal process or maintenance materials in the furnace. These exempted materials must be identified in the pollution prevention plan.

- (1) Specification that scrap materials must be depleted (to the extent practicable) of undrained used oil filters, chlorinated plastics, and free organic liquids at the time of charging to the furnace.

- (2) A requirement in your scrap specifications for removal (to the extent practicable) of lead-containing components (such as batteries, battery cables, and wheel weights) from the scrap, except for scrap used to produce leaded steel.
 - (3) Procedures for determining if the requirements and specification in paragraph (a)(1) of this permit condition are met (such as visual inspection or periodic audits of scrap providers) and procedures for taking corrective actions with vendors whose shipments are not within specifications.
- (b) *Restricted metallic scrap.* For the production of steel other than leaded steel, the permittee must not charge to a furnace metallic scrap that contains scrap from motor vehicle bodies, engine blocks, oil filters, oily turnings, machine shop borings, transformers or capacitors containing polychlorinated biphenyls, lead-containing components, chlorinated plastics, or free organic liquids. For the production of leaded steel, the permittee must not charge to the furnace metallic scrap that contains scrap from motor vehicle bodies, engine blocks, oil filters, oily turnings, machine shop borings, transformers or capacitors containing polychlorinated biphenyls, chlorinated plastics, or free organic liquids. This restriction does not apply to any post-consumer engine blocks, post-consumer oil filters, or oily turning that are processed or cleaned to the extent practicable such that the materials do not include lead components, chlorinated plastics, or free organic liquids. This restriction does not apply to motor vehicle scrap that is charged to recover the chromium or nickel content if the permittee meets the requirements in Condition 5.B.3(c) of this permit.

(Ref.: 40 CFR 63.10685(a); Subpart YYYYYY)

5.B.3 For AB-000 and AG-000, the following apply: *Mercury Requirements.* For scrap containing motor vehicle scrap, the permittee must procure the scrap pursuant to one of the compliance options in paragraphs (a), (b), or (c) of this permit condition for each scrap provider, contract, or shipment. For scrap that does not contain motor vehicle scrap, the permittee must procure the scrap pursuant to the requirements in paragraph (d) of this permit condition for each scrap provider, contract, or shipment. The permittee may have one scrap provider, contract, or shipment subject to one compliance provision and other subject to another compliance provision.

- (a) *Site-specific plan for mercury switches.* The permittee must comply with the requirements in paragraphs (a)(1) through (5) of this permit condition.
 - (1) The permittee must include a requirement in the permittee's scrap specifications for removal of mercury switches from vehicle bodies used

to make the scrap.

- (2) The permittee must prepare and operate according to a plan demonstrating how the permittee's facility will implement the scrap specification in paragraph (a)(1) of this permit condition for removal of mercury switches. The permittee must submit the plan to MDEQ for approval. The permittee must operate according to this plan as submitted during the review and approval process, operating according to the approved plan at all times after approval, and address any deficiency identified by MDEQ within 60 days following disapproval of a plan. The permittee may request approval to revise the plan and may operate according to the revised plan unless and until the revision is disapproved by MDEQ. MDEQ may change the approval status of the plan upon 90-days written notice based upon the semiannual compliance report or other information. The plan must include:
- (i) A means of communicating to scrap purchasers and scrap providers the need to obtain or provide motor vehicle scrap from which mercury switches have been removed and the need to ensure the proper management of the mercury switches removed from that scrap as required under the rules implementing subtitle C of the Resource Conservation and Recovery Act (RCRA) (40 CFR Parts 261 through 265 and 268). The plan must include documentation of direction to appropriate staff to communicate to suppliers throughout the scrap supply chain the need to promote the removal of mercury switches from end-of-life vehicles. Upon the request of MDEQ, you must provide examples of materials that are used for outreach to suppliers, such as letters, contract language, policies for purchasing agents, and scrap inspection protocols;
 - (ii) Provisions for obtaining assurance from scrap providers that motor vehicle scrap provided to the facility meet the scrap definition;
 - (iii) Provisions for periodic inspection or other means of corroboration to ensure that scrap providers and dismantlers are implementing appropriate steps to minimize the presence of mercury switches in motor vehicle scrap and that the mercury switches removed are being properly managed, including the minimum frequency such means of corroboration will be implemented; and
 - (iv) Provisions for taking corrective actions (i.e., actions resulting in scrap providers removing a higher percentage of mercury switches

or other mercury-containing components) if needed, based on the results of procedures implemented in paragraph (a)(2)(iii) of this permit condition.

- (3) The permittee must require each motor vehicle scrap provider to provide an estimate of the number of mercury switches removed from motor vehicle scrap sent to the permittee's facility during the previous year and the basis for the estimate. MDEQ may request documentation or additional information at any time.
 - (4) The permittee must establish a goal for each scrap provider to remove at least 80 percent of the mercury switches. Although a site-specific plan approved under paragraph (a) of this permit condition may require only the removal of convenience light switch mechanisms, MDEQ will credit all documented and verifiable mercury-containing components removed from motor vehicle scrap (such as sensors in anti-locking brake systems, security systems, active ride control, and other applications) when evaluating progress towards the 80 percent goal.
- (b) *Option for approved mercury programs.* The permittee must participate in and purchase motor vehicle scrap only from scrap providers who participate in a program for removal of mercury switches that has been approved by EPA based on the criteria in 40 CFR 63.10685(b)(2)(i) through (iii). The National Vehicle Mercury Switch Recovery Program and the Vehicle Switch Recovery Program mandated by Maine State law are EPA-approved programs under 40 CFR 63.10685(b)(2) unless and until EPA disapproves the program (in part or in whole) under 40 CFR 63.10685(b)(2)(iii).
 - (c) *Option for specialty metal scrap.* The permittee must maintain records of documentation and operate such that the only materials from motor vehicles in the scrap are materials recovered for specialty alloy (including, but not limited to, chromium, nickel, molybdenum, or other alloys) content (such as certain exhaust systems) and, based on the nature of the scrap and purchase specifications, that the type of scrap is not reasonably expected to contain mercury switches.
 - (d) *Scrap that does not contain motor vehicle scrap.* For scrap not subject to the requirements in paragraphs (a) through (c) of this permit condition, the permittee must maintain records of documentation that this scrap does not contain motor vehicle scrap.

(Ref.: 40 CFR 63.10685(b); Subpart YYYYYY)

- 5.B.4 For Emission Points AB-000 and AG-000, in addition to the records required by 40 CFR 63.10, the permittee must keep records to demonstrate compliance with the requirements for the permittee's pollution prevention plan in Condition 5.B.2(a) of this permit and/or for the use of only restricted scrap in Condition 5.B.2(b) of this permit and for mercury in Condition 5.B.3(a) through (c) of this permit, as applicable. The permittee must keep records documenting compliance with Condition 5.B.3(d) of this permit for scrap that does not contain motor vehicle scrap.
- (a) If the permittee is subject to the requirements for a site-specific plan for mercury under Condition 5.B.3(a) of this permit, the permittee must maintain records of the number of mercury switches removed or the weight of mercury recovered from the switches and properly managed, the estimated number of vehicles processed, and an estimate of the percent of mercury switches recovered.
 - (b) If the permittee is subject to the option for approved mercury programs under Condition 5.B.3(b) of this permit, the permittee must maintain records identifying each scrap provider and documenting the scrap provider's participation in an approved mercury switch removal program. If the permittee purchases motor vehicle scrap from a broker, the permittee must maintain records identifying each broker and documentation that all scrap provided by the broker was obtained from other scrap providers who participate in an approved mercury switch removal program.

(Ref.: 40 CFR 63.10685(c)(1) and (2); Subpart YYYYYY)

- 5.B.5 For Emission Points AB-001 and AB-002, the permittee shall monitor the capture system and PM control device required by Condition 3.D.1 of this permit, maintain records, and submit reports according to the compliance assurance monitoring requirements in 40 CFR Part 64. (See also Condition 3.B.13)

(Ref.: 40 CFR 63.10686(e); Subpart YYYYYY)

- 5.B.6 For Emission Points AB-001 and AB-002, to demonstrate compliance with the emissions limitations in Conditions 3.B.9, 3.B.10, and 3.B.11, the permittee shall operate a Continuous Emission Monitoring System (CEMS) for monitoring the emissions of SO₂, CO, and NO_x according to the manufacturers design, specifications, and recommendations. The MDEQ may reopen the permit at any time to establish the necessary parameters for establishing the appropriate averaging period/time for optimum operation of the CEMS. The CEMS shall meet the applicable performance specifications required by 40 CFR Part 60, Appendix B, the applicable quality assurance procedures required in 40 CFR Part 60, Appendix F, and the requirements of 40 CFR 60.13. In lieu of the requirements of 40 CFR Part 60, Appendix F, 5.1.1, 5.1.3, and

5.1.4, the permittee may conduct either a Relative Accuracy Audit (RAA) or a Relative Accuracy Test Audit (RATA) on each CEMS at least once every three (3) years. The permittee shall conduct Cylinder Gas Audits (CGA) each calendar quarter during which a RAA or a RATA is not performed.

(Ref.: PSD Construction Permit Issued December 9, 2008)

5.B.7 For Emission Points AB-001 and AB-002, the permittee shall conduct performance testing to demonstrate compliance with the VOC limits specified in Condition 3.B.8 of this permit. Testing shall be conducted no more than 5 years from the previous performance test. The permittee shall utilize EPA Reference Method 25A or an alternative EPA approved test method. During the performance test, the permittee shall monitor the following:

- (a) Charge weights and materials, tap weights, and materials;
- (b) Heat times, including start and stop times and a log of process operations, including periods of no operation during testing;
- (c) Control device operation log; and
- (d) Continuous monitor or Method 9 data.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).; established in PSD Construction Permit Issued December 9, 2008 and modified in Title V Operating Permit herein)

5.B.8 For Emission Points AB-001 and AB-002, the permittee shall conduct biennial performance testing to demonstrate compliance with the PM limitations in Conditions 3.B.5 and 3.B.6 of this permit. Each performance test shall be conducted no later than 24 months following the previous performance test. The performance testing shall be conducted in accordance with the following:

- (a) During the performance tests, the permittee shall not add gaseous diluents to the effluent gas stream after the fabric in any pressurized fabric filter collector, unless the amount of dilution is separately determined and considered in the determination of emissions.
- (b) Method 5 shall be used for negative-pressure fabric filters and other types of control devices and Method 5D shall be used for positive-pressure fabric filters to determine the particulate matter concentration and volumetric flow rate of the effluent gas. The sampling time and sample volume for each run shall be at least 4 hours and 4.50 dscm (160 dscf) and, when a single EAF is sampled, the

sampling time shall include an integral number of heats.

- (c) The permittee shall obtain the information required in Condition 5.B.14 and 5.B.17 of this permit during the particulate matter runs.
- (d) To demonstrate compliance with the opacity standards in Conditions 3.B.3 and 3.B.4, the permittee shall conduct Method 9 observations concurrently with the particulate matter test runs, unless inclement weather interferes.
- (e) The baghouses shall be designed and constructed to allow measurement of emissions using applicable test methods and procedures.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2)., 40 CFR 60.275a(a), (e)(1), (e)(3), (e)(4), (f), (g), and (j); Subpart AAa)

- 5.B.9 For Emission Points AB-001 and AB-002, the permittee shall have a certified visible emission observer conduct visible emissions evaluations at the baghouses. Visible emission observations shall be conducted at least once per day for at least three 6-minute periods when the furnace is operating in the melting and refining period. All visible emissions observations shall be conducted in accordance with Method 9. If visible emissions occur from more than one point, the opacity shall be recorded for any points where visible emissions are observed. Where it is possible to determine that a number of visible emission sites relate to only one incident of the visible emission, only one set of three 6-minute observations will be required. In that case, the Method 9 observations must be made for the site of highest opacity that directly relates to the cause (or location) of visible emissions observed during a single incident. Records shall be maintained of any 6-minute average that is in excess of the opacity limit specified in Condition 3.B.4 of this permit.

(Ref.: 40 CFR 60.273a(c); Subpart AAa)

- 5.B.10 For Emission Points AB-001 and AB-002, the permittee shall check and record the control system fan motor amperes and damper position on a once-per-shift basis during all periods in which a hood is operated for the purpose of capturing emissions. The permittee may petition the MDEQ for reestablishment of these parameters whenever the permittee can demonstrate to the MDEQ's satisfaction that the operating conditions upon which the parameters were previously established are no longer applicable. The values of these parameters as determined during the most recent demonstration of compliance shall be maintained at the appropriate level for each applicable period. Operation at other than baseline values may be subject to the requirements of 40 CFR 60.276a(c). Records of the measurements required by this permit condition must be retained for at least 2 years following the date of the measurement.

(Ref.: 40 CFR 60.274a(a)(1), (b), (c), and 60.276a(a); Subpart AAa)

- 5.B.11 For Emission Points AB-001 and AB-002, the permittee shall perform monthly operational status inspections of the equipment that is important to the performance of the total capture system (i.e., pressure sensors, dampers, and damper switches). This inspection shall include observations of the physical appearance of the equipment (e.g., presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in ductwork, and fan erosion). Any deficiencies shall be noted and proper maintenance performed. The permittee shall maintain records of all monthly operational status inspections performed under this permit condition for at least 2 years following the date of the inspections.

(Ref.: 40 CFR 60.274a(a)(2) and (d), 60.276a(a); Subpart AAa)

- 5.B.12 For Emission Points AB-001 and AB-002, the permittee may petition the MDEQ to approve any alternative to either the monitoring requirements in Condition 5.B.10 of this permit or the monthly operational status inspections specified in Condition 5.B.11 of this permit if the alternative will provide a continuous record of operation of each emission capture system.

(Ref.: 40 CFR 60.274a(e); Subpart AAa)

- 5.B.13 For Emission Point AB-001 and AB-002, during any performance test required under Condition 5.B.8, and for any report thereof required by Condition 5.C.7, or to determine compliance with Condition 3.B.3, the owner or operator shall monitor the following information for all heats covered by the test:

- (a) Charge weights and materials, and tap weights and materials;
- (b) Heat times, including start and stop times, and a log of process operation,

including periods of no operation during testing;

- (c) Control device operation log; and
- (d) Method 9 data.

Records of the measurements required in this permit condition must be retained for at least 2 years following the date of the measurement.

(Ref.: 40 CFR 60.274a(h) and 60.276a(a); Subpart AAa)

- 5.B.14 For Emission Points AB-001 and AB-002, the permittee shall conduct daily visible emissions evaluations and monitor the fan amps and damper positions once per shift at the baghouses in accordance with the CAM Plan found in Appendix B of this permit.

(Ref.: 40 CFR 64.3(a) and (b), 64.6(c); Compliance Assurance Monitoring)

- 5.B.15 For Emission Point AF-001, the permittee shall monitor the fan amps at the cyclone on a daily basis in accordance with the CAM Plan found in Appendix C of the permit.

(Ref.: 40 CFR 64.3(a) and (b), 64.6(c); Compliance Assurance Monitoring)

- 5.B.16 For Emission Points AB-001, AB-002, and AF-001, the permittee shall comply with the following requirements required by the approved CAM Plan:

- (a) *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.
- (b) *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, including in data averaging and calculations or in fulfilling a minimum data availability requirement, as applicable. The permittee 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.

(Ref.: 40 CFR 64.7(b) and (c); Compliance Assurance Monitoring)

- 5.B.17 For Emission Points AB-001, AB-002, and AF-001, 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.

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.

(Ref.: 40 CFR 64.7(d); Compliance Assurance Monitoring)

- 5.B.18 For Emission Points AB-001, AB-002, and AF-001, based on the results of a determination made under Condition 5.B.17, the MDEQ may require the permittee to develop and implement a Quality Improvement Plan (QIP) containing the elements specified in 40 CFR 648(b). The QIP shall be developed and implemented within 180 days of written notification from MDEQ that a QIP is required. The MDEQ may require the permittee make reasonable changes to the QIP if the QIP fails to address the cause of the control device performance problem or fails to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. Implementation of a QIP shall not excuse the permittee from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting, or recordkeeping requirement that applies.

(Ref.: 40 CFR 64.8; Compliance Assurance Monitoring)

- 5.B.19 For Emission Points AB-001, AB-002, and AF-001, the permittee shall maintain records

of monitoring data, monitor performance data, corrective actions taken, any written QIP required pursuant to Condition 5.B.22 and any activities undertaken to implement a QIP, data used to document the adequacy of monitoring, and monitoring maintenance or corrective actions, as applicable. As applicable, records of monitoring data and monitoring performance data should include date and time, who performed the analysis, analytical techniques or methods used, results and operating conditions at the time of the sampling or measurement. These records may be maintained in hard copy form or electronically, provided they are available for expeditious inspection and review.

(Ref.: 40 CFR 64.9(b); Compliance Assurance Monitoring)

- 5.B.20 For Emission Point AG-000, the permittee shall develop good work practices and maintain sufficient records to document drop heights and maintenance necessary to ensure that all related equipment is being operated in a manner consistent with manufacturer design, demonstrating compliance with BACT as specified in Condition 3.D.5 of the federally enforceable permit herein. These records shall be in the form of the following good work practice certification statement which may be developed by the senior environmental manager for the facility and certified by the responsible official in the semiannual report submittals:

“Based upon my inquiry of the person or persons directly responsible for managing compliance with the permit limitations described in Part III of the PSD Construction Permit issued December 9, 2008, for Emission Point AG-000, I certify that, to the best of my knowledge and belief, preventative maintenance of all related equipment is being performed in a manner consistent with manufacturer design. I further certify that this facility is maintaining sufficient records to demonstrate this upon site inspection visit or request by any MDEQ personnel.”

(Ref.: PSD Construction Permit Issued December 9, 2008)

- 5.B.21 For Emission Point AH-000, the permittee shall keep records to document their monthly gasoline throughput and shall, within 24 hours of a request by the MDEQ, demonstrate their monthly gasoline throughput is less than the 10,000-gallon threshold level. Records of monthly gasoline throughput shall be kept for a period of five (5) years. The permittee shall not be required to submit notifications or reports as specified in 40 CFR 63.11125, 63.11126, or 40 CFR Part 63, Subpart A.

(Ref.: 40 CFR 63.11111(e) and 63.11116(b); Subpart CCCCCC)

- 5.B.22 For Emission Point AH-000, the permittee shall keep the following records:

- (a) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.
- (b) Records of actions taken during periods of malfunction to minimize emissions in accordance with Condition 3.D.8, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(Ref.: 40 CFR 63.11125(d); Subpart CCCCCC)

C. Specific Reporting Requirements

Emission Point(s)	Applicable Requirement	Condition Number	Pollutant/Parameter Monitored	Reporting Requirement
AB-000 AG-000	40 CFR 63.10685(b)(1)(v), (c)(1)(ii), and (c)(3); Subpart YYYYYY	5.C.1	Chlorinated plastics, lead, free organic liquids, and mercury	Semiannual reporting requirements for the control of contaminants from scrap
AB-000	40 CFR 60.276a(g); Subpart AAa	5.C.2	Opacity	Semiannual reporting of excess emissions from the melt shop
AB-001 AB-002	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2). and 40 CFR 60.7(c) and (d))	5.C.3	SO ₂ CO NO _x	Semiannual reporting requirements for CEMs
	40 CFR 60.276a(b); Subpart AAa	5.C.4	Opacity	Semiannual reporting of exceedances
	40 CFR 60.276a(c); Subpart AAa	5.C.5	Fan motor amperes	Semiannual reporting of unacceptable operation and maintenance
	40 CFR 60.276a(f); Subpart AAa	5.C.6	PM	Stack test report content requirements
	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.7	PM VOC	Submit stack test reports no later than 60 days after testing
AB-001 AB-002 AF-001	40 CFR 64.9(a); CAM	5.C.8	CAM Reporting	Semiannual reporting requirements
	40 CFR 64.7(e); CAM	5.C.9	CAM Modification	Promptly notify MDEQ of failure to achieve limit/standard though no excursion or exceedance was indicated by approved monitoring
AC-000 AE-000	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.10	PM/PM ₁₀ /PM _{2.5}	Submit changes to operation and maintenance plans
AD-000 AF-000 AG-000	11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).	5.C.11	Operating parameters and work practices	Semiannual Monitoring Report Requirements

5.C.1 For Emission Points AB-000 and AG-000, the permittee shall comply with the following semiannual reporting requirements:

- (a) When complying with the option for a site-specific plan for mercury under

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Condition 5.B.3(a) of this permit, for each scrap provider, the permittee must submit semiannual progress reports to MDEQ that provide the number of mercury switches removed or the weight of mercury recovered from the switches, the estimated number of vehicles processed, an estimate of the percent of mercury switches removed, and certification that the removed switches were recycled at RCRA-permitted facilities or otherwise properly managed pursuant to RCRA Subtitle C regulations referenced in Condition 5.B.3(a)(2)(i). This information can be submitted in aggregated form and does not have to be submitted for each scrap provider, contract, or shipment. MDEQ may change the approval status of a site-specific plan following 90-days' notice based on the progress reports or other information.

- (b) When complying with the option for a site-specific plan for mercury under Condition 5.B.3(a) of this permit, the permittee must submit semiannual reports of the number of mercury switches removed or the weight of mercury recovered from the switches and properly managed, the estimated number of vehicles processed, an estimate of the percent of mercury switches recovered, and a certification that the recovered mercury switches were recycled at RCRA-permitted facilities. The semiannual reports must include a certification that the permittee has conducted inspections or taken other means of corroboration as required under Condition 5.B.3(a)(2)(iii) of this permit. The permittee may include this information in the semiannual compliance reports required under paragraph (c) of this permit condition.
- (c) The permittee must submit semiannual compliance reports to MDEQ that clearly identifies any deviation from the requirements in Conditions 5.B.2 and 5.B.3 of this permit and the corrective action taken. The permittee must identify which compliance option in Condition 5.B.3 of this permit applies to each scrap provider, contract, or shipment.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A.(3)(c)(1) and 40 CFR 63.10685(b)(1)(v), (c)(1)(ii), and (c)(3); Subpart YYYYYY)

- 5.C.2 For Emission Point AB-000, the permittee shall maintain records of all shop opacity observations made in accordance with Condition 5.B.1. All shop opacity observations in excess of the emission limit specified in Condition 3.B.3 shall indicate a period of excess emission, and shall be reported to the MDEQ semi-annually, according to 40 CFR 60.7(c).

(Ref.: 40 CFR 60.276a(g); Subpart AAa)

- 5.C.3 For the CEMS associated with Emission Points AB-001 and AB-002, the permittee

shall submit semiannual summary report forms in accordance with paragraph (a) and excess emissions and monitoring systems performance reports in accordance with paragraph (b). All reports shall be submitted by July 31 and January 31 for the preceding six-month period.

- (a) The summary report form shall contain the information and be in the format shown in 40 CFR 60.7(d), Figure 1. One summary report form shall be submitted for each pollutant monitored (SO₂, CO, and NO_x). If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and CEMS downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in paragraph (b) need not be submitted unless requested by MDEQ.
- (b) If the total duration of excess emissions for the reporting period is 1 percent or greater of the total operating time for the reporting period or the total CEMS downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the summary report form described in paragraph (a) and the excess emission report described in paragraphs (b)(1) through (5) shall both be submitted. Written reports of excess emissions shall include the following information:
 - (1) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions.
 - (2) The Melt Shop operating time during the reporting period.
 - (3) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the Melt Shop. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted.
 - (4) The date and time identifying each period during which the CEMS was inoperative except for zero and span checks and the nature of the system repairs or adjustments.
 - (5) When no excess emissions have occurred or the CEMS have not been inoperative, repaired, or adjusted, such information shall be stated in the report.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2). and 40 CFR 60.7(c) and (d))

- 5.C.4 For Emission Points AB-001 and AB-002, the permittee shall submit a written report of exceedances of the control device opacity (see Condition 3.B.4) to the MDEQ semi-annually. For the purposes of these reports, exceedances are defined as all 6-minute periods during which the average opacity is 3 percent or greater.

(Ref.: 40 CFR 60.276a(b); Subpart AAa)

- 5.C.5 For Emission Points AB-001 and AB-002, operation of control system fan motor amperes at values exceeding ± 15 percent of the value established under Condition 5.B.14 or operation at flow rates lower than those established under Condition 5.B.14 may be considered by the MDEQ to be unacceptable operation and maintenance of the facility. Operation at such values shall be reported to the MDEQ semiannually.

(Ref.: 40 CFR 60.276a(c); Subpart AAa)

- 5.C.6 For Emission Points AB-001, and AB-002, the permittee shall conduct the demonstration of compliance with Conditions 3.B.3, 3.B.4, 3.B.5, and 3.B.6 and furnish the MDEQ a written report of the results of the test. This report shall include the following information:

- (a) Facility name and address;
- (b) Plant representative;
- (c) Make and model of process, control device, and continuous monitoring equipment;
- (d) Flow diagram of process and emission capture equipment including other equipment or process(es) ducted to the same control device;
- (e) Rated (design) capacity of process equipment;
- (f) Those data required under Condition 5.B.16;
 - (1) List of charge and tap weights and materials;
 - (2) Heat times and process log;
 - (3) Control device operation log; and
 - (4) Method 9 data.

- (g) Test dates and test times;
- (h) Test company;
- (i) Test company representative;
- (j) Test observers from outside agency;
- (k) Description of test methodology used, including any deviation from standard reference methods;
- (l) Schematic of sampling location;
- (m) Number of sampling points;
- (n) Description of sampling equipment;
- (o) Listing of sampling equipment calibrations and procedures;
- (p) Field and laboratory data sheets;
- (q) Description of sample recovery procedures;
- (r) Sampling equipment leak check results;
- (s) Description of quality assurance procedures;
- (t) Description of analytical procedures;
- (u) Notation of sample blank corrections; and
- (v) Sample emission calculations.

(Ref.: 40 CFR 60.276a(f); Subpart AAa)

- 5.C.7 For Emission Points AB-001 and AB-002, the permittee shall submit a written report to the MDEQ of the results of required PM and VOC performance testing, required in Conditions 5.B.7 and 5.B.8, no later than 60 days following the actual performance test(s).

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).)

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- 5.C.8 For Emission Points AB-001, AB-002, and AF-001, the permittee shall submit reports in accordance with Condition 5.A.4 of 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 5.B.18. 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.

(Ref.: 40 CFR 64.9(a); Compliance Assurance Monitoring)

- 5.C.9 For Emission Points AB-001, AB-002, and AF-001, if the permittee identifies a failure to achieve compliance with the emission limitation or standard for which the approved CAM 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 permitting authority 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 monitoring additional parameters.

(Ref.: 40 CFR 64.7(e); Compliance Assurance Monitoring)

- 5.C.10 For Emission Points AC-000 and AE-000, the permittee shall submit to the MDEQ results of any changes in the required operation and maintenance plans developed in accordance with Conditions 3.D.3 and 3.D.6.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(a)(2).)

- 5.C.11 For Emission Points AD-001 and AG-000, the permittee shall submit semiannual monitoring reports in accordance with Condition 5.A.4. The reports shall contain, in addition to the semiannual reporting requirements found elsewhere in Section C, the following information:

- (a) For Emission Point AD-001, the permittee shall submit reports summarizing compliance with the operating ranges established in accordance with Condition 3.D.3. Operating ranges may be updated (using previously established procedures) following MDEQ approval. Reports, including any variances from established parameters and appropriate corrective action taken during the reporting period shall be submitted to MDEQ.
- (b) For Emission Point AG-000, the permittee shall submit reports summarizing compliance with good work practices in accordance with the certification requirement in Condition 5.B.24, demonstrating compliance with Condition 3.D.7.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 6.3.A(3)(c)(1).)

SECTION 6. ALTERNATIVE OPERATING SCENARIOS

6.1 None permitted.

SECTION 7. TITLE VI REQUIREMENTS

The following are applicable or potentially applicable requirements originating from Title VI of the Clean Air Act – Stratospheric Ozone Protection. The full text of the referenced regulations may be found on-line at <http://www.ecfr.gov/> under Title 40, or DEQ shall provide a copy upon request from the permittee.

- 7.1 If the permittee produces, transforms, destroys, imports or exports a controlled substance or imports or exports a controlled product, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart A – Production and Consumption Controls.
- 7.2 If the permittee performs service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart B – Servicing of Motor Vehicle Air Conditioners.
- 7.3 The permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart E – The Labeling of Products Using Ozone-Depleting Substances, for the following containers and products:
 - (a) All containers in which a class I or class II substance is stored or transported;
 - (b) All products containing a class I substance; and
 - (c) All products directly manufactured with a process that uses a class I substance, unless otherwise exempted by this subpart or, unless EPA determines for a particular product that there are no substitute products or manufacturing processes for such product that do not rely on the use of a class I substance, that reduce overall risk to human health and the environment, and that are currently or potentially available. If the EPA makes such a determination for a particular product, then the requirements of this subpart are effective for such product no later than January 1, 2015.
- 7.4 If the permittee performs any of the following activities, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart F – Recycling and Emissions Reduction:
 - (a) Servicing, maintaining, or repairing appliances;
 - (b) Disposing of appliances, including small appliances and motor vehicle air conditioners; or
 - (c) Refrigerant reclaimers, technician certifying programs, appliance owners and

operators, manufacturers of appliances, manufacturers of recycling and recovery equipment, approved recycling and recovery equipment testing organizations, as well as persons selling, offering for sale, and/or purchasing class I, class II, or non-exempt substitute refrigerants.

- 7.5 The permittee shall be allowed to switch from any ozone-depleting substance to any acceptable alternative that is listed in the Significant New Alternatives Policy (SNAP) program promulgated pursuant to 40 CFR Part 82, Subpart G – Significant New Alternatives Policy Program. The permittee shall also comply with any use conditions for the acceptable alternative substance.
- 7.6 If the permittee performs any of the following activities, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart H – Halon Emissions Reduction:
- (a) Any person testing, servicing, maintaining, repairing, or disposing of equipment that contains halons or using such equipment during technician training;
 - (b) Any person disposing of halons;
 - (c) Manufacturers of halon blends; or
 - (d) Organizations that employ technicians who service halon-containing equipment.

APPENDIX A

List of Abbreviations Used In this Permit

11 Miss. Admin. Code Pt. 2, Ch. 1.	Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants
11 Miss. Admin. Code Pt. 2, Ch. 2.	Permit Regulations for the Construction and/or Operation of Air Emissions Equipment
11 Miss. Admin. Code Pt. 2, Ch. 3.	Regulations for the Prevention of Air Pollution Emergency Episodes
11 Miss. Admin. Code Pt. 2, Ch. 4.	Ambient Air Quality Standards
11 Miss. Admin. Code Pt. 2, Ch. 5.	Regulations for the Prevention of Significant Deterioration of Air Quality
11 Miss. Admin. Code Pt. 2, Ch. 6.	Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act
11 Miss. Admin. Code Pt. 2, Ch. 7.	Acid Rain Program Permit Regulations for Purposes of Title IV of the Federal Clean Air Act
BACT	Best Available Control Technology
CEM	Continuous Emission Monitor
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COM	Continuous Opacity Monitor
COMS	Continuous Opacity Monitoring System
DEQ	Mississippi Department of Environmental Quality
EPA	United States Environmental Protection Agency
gr/dscf	Grains Per Dry Standard Cubic Foot
HP	Horsepower
HAP	Hazardous Air Pollutant
lbs/hr	Pounds per Hour
M or K	Thousand
MACT	Maximum Achievable Control Technology
MM	Million
MMBTUH	Million British Thermal Units per Hour
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emissions Standards for Hazardous Air Pollutants, 40 CFR 61 or National Emission Standards for Hazardous Air Pollutants for Source Categories, 40 CFR 63
NMVOC	Non-Methane Volatile Organic Compounds
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standards, 40 CFR 60
O&M	Operation and Maintenance
PM	Particulate Matter
PM ₁₀	Particulate Matter less than 10 µm in diameter
ppm	Parts per Million
PSD	Prevention of Significant Deterioration, 40 CFR 52
SIP	State Implementation Plan
SO ₂	Sulfur Dioxide
TPY	Tons per Year
TRS	Total Reduced Sulfur
VEE	Visible Emissions Evaluation
VHAP	Volatile Hazardous Air Pollutant
VOC	Volatile Organic Compound

APPENDIX B

Compliance Assurance Monitoring Plans for Emission Points AB-001, AB-002, and AF-001