STATE OF MISSISSIPPI
AIR POLLUTION CONTROL PERMIT

AND PREVENTION OF SIGNIFICANT DETERIORATION AUTHORITY
TO CONSTRUCT AIR EMISSIONS EQUIPMENT

THIS CERTIFIES THAT

Roxul USA, Inc. d/b/a ROCKWOOL
4594 Cayce Road
Byhalia, Mississippi
Marshall County

has been granted permission to construct air emissions equipment to comply with emission limitations, monitoring requirements and other conditions set forth herein. This permit is issued in accordance with 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 and under authority granted by the Environmental Protection Agency under 40 CFR 52.01 and 52.21.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD

_____

AUTHORIZED SIGNATURE
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Issued: August 22, 2012 Permit No.: 1780-00052

Modified: February 25, 2014; February 1, 2017; and DATE

DRAFT – 4/19/21

Part I

A. GENERAL CONDITIONS

1. This permit is for air pollution control purposes only. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.1.D.)

2. Any activities not identified in the application are not authorized by this permit. (Ref.: Miss. Code Ann. 49-17-29 1.b)

3. The knowing submittal of a permit application with false information may serve as the basis for the Permit Board to void the permit issued pursuant thereto or subject the applicant to penalties for operating without a valid permit pursuant to State Law. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(5).)

4. It is the responsibility of the applicant/permittee to obtain all other approvals, permits, clearances, easements, agreements, etc., which may be required including, but not limited to, all required local government zoning approvals or permits. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.1.D(6).)

5. The issuance of a permit does not release the permittee from liability for constructing or operating air emissions equipment in violation of any applicable statute, rule, or regulation of state or federal environmental authorities. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(7).)

6. 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 the permit, unless halting or reducing activity would create an imminent and substantial endangerment threatening the public health and safety of the lives and property of the people of this state. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(15)(a).)

7. The permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. Sufficient cause for a permit to be reopened shall exist when an air emissions stationary source becomes subject to Title V. 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. 2.2.B(15)(b).)

8. The permit does not convey any property rights of any sort, or any exclusive privilege. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(15)(c).)

9. 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 permit or, for information claimed to be confidential, the permittee shall furnish such records to the 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. 2.2.B(15)(d).)

10. Design and Construction Requirements: The stationary source shall be designed and constructed so as to operate without causing a violation of an Applicable Rules and Regulations, without interfering with the attainment and maintenance of State and National Ambient Air Quality Standards, and such that the emission of air toxics does not result in an ambient concentration sufficient to adversely affect human health and well-being or unreasonably and adversely affect plant or animal life beyond the stationary source boundaries. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.A.)

11. Solids Removal: The necessary facilities shall be constructed so that solids removed in the course of control of air emissions may be disposed of in a manner such as to prevent the solids from becoming windborne and to prevent the materials from entering State waters without the proper environmental permits. (Ref.: Miss. Code Ann. 49-17-29)

12. Diversion and Bypass of Air Pollution Controls: The air pollution control facilities shall be constructed such that diversion from or bypass of collection and control facilities is not needed except as provided for in 11 Miss. Admin. Code Pt. 2, R. 1.1.10, "Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants", Section 10. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.10.)

13. Fugitive Dust Emissions from Construction Activities: The construction of the stationary source shall be performed in such a manner so as to reduce fugitive dust emissions from construction activities to a minimum. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.A(4).)

14. Right of Entry: The permittee shall allow the Mississippi Department of Environmental Quality Office of Pollution Control and the Mississippi Environmental Quality Permit Board and/or their representatives upon presentation of credentials:

    a) To enter upon the permittee's premises where an air emission source is located or in which any records are required to be kept under the terms and conditions of this permit; and

    b) At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any air emissions. (Ref.: Miss. Code Ann. 49-17-21)

15. Permit Modification or Revocation: After notice and opportunity for a hearing, the Permit Board may modify the permit or revoke it in whole or in part for good cause shown including, but not limited to:

    a) Persistent violation of any of the terms or conditions of this permit;

    b) Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or

    c) A change in federal, state, or local laws or regulations that require either a temporary or permanent reduction or elimination of previously authorized air emission.

(Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.C.)

16. Public Record and Confidential Information: Except for data determined to be confidential under the Mississippi Air & Water Pollution Control Law, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Mississippi Department of Environmental Quality, Office of Pollution Control. (Ref.: Miss. Code Ann. 49-17-39)

17. Permit Transfer: This permit shall not be transferred except upon approval of the Permit Board. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.16.B.)

18. Severability: The provisions of this permit are severable. If any provision of the permit, or the application of any provision of the 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. 2.1.D(7).)

19. Permit Expiration: The permit to construct will expire if construction does not begin within eighteen (18) months from the date of issuance or if construction is suspended for eighteen (18) months or more. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.C(1).)

20. Certification of Construction: A new stationary source issued a Permit to Construct cannot begin operation until certification of construction by the permittee. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(3).)

21. Beginning Operation: Except as prohibited in Part I, Condition 24 of this permit, after certification of construction by the permittee, the Permit to Construct shall be deemed to satisfy the requirement for a permit to operate until the date the application for issuance or modification of the Title V Permit or the application for issuance or modification of the State Permit to Operate, whichever is applicable, is due. This provision is not applicable to a source excluded from the requirement for a permit to operate as provided by 11 Miss. Admin. Code Pt. 2, R. 2.13.G. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(4).)

22. Application for a Permit to Operate: Except as otherwise specified in Part I, Condition 24 of this permit, the application for issuance or modification of the State Permit to Operate or the Title V Permit, whichever is applicable, is due twelve (12) months after beginning operation or such earlier date or time as specified in the Permit to Construct. The Permit Board may specify an earlier date or time for submittal of the application. Beginning operation will be assumed to occur upon certification of construction, unless the permittee specifies differently in writing. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(5).)

23. Operating Under a Permit to Construct: Except as otherwise specified in Part I, Condition 24 of this permit, upon submittal of a timely and complete application for issuance or modification of a State Permit to Operate or a Title V Permit, whichever is applicable, the applicant may continue to operate under the terms and conditions of the Permit to Construct and in compliance with the submitted application until the Permit Board issues, modifies, or denies the Permit to Operate. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(6).)

24. Application Requirements for a Permit to Operate for Moderate Modifications: For moderate modifications that require contemporaneous enforceable emissions reductions from more than one emission point in order to "net" out of PSD/NSR, the applicable Title V Permit to Operate or State Permit to Operate must be modified prior to beginning operation of the modified facilities. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(7).)

25. Compliance Testing: Regarding compliance testing:

    a) The results of any emissions sampling and analysis shall be expressed both in units consistent with the standards set forth in any Applicable Rules and Regulations or this permit and in units of mass per time.

    b) Compliance testing will be performed at the expense of the permittee.

    c) Each emission sampling and analysis report shall include but not be limited to the following:

        (1) detailed description of testing procedures;

        (2) sample calculation(s);

        (3) results; and

        (4) comparison of results to all Applicable Rules and Regulations and to emission limitations in the permit.

    (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.6.B(3), (4), & (6).)

B. GENERAL NOTIFICATION REQUIREMENTS

1. Within fifteen (15) days of beginning actual construction, the permittee must notify DEQ in writing that construction has begun. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.C(2).)

2. The permittee must notify DEQ in writing when construction does not begin within eighteen (18) months of issuance or if construction is suspended for eighteen (18) months or more. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.C(3).)

3. Upon the completion of construction or installation of an approved stationary source or modification, the applicant shall notify the Permit Board that construction or installation was performed in accordance with the approved plans and specifications on file with the Permit Board. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(1).)

4. The Permit Board shall be promptly notified in writing of any change in construction from the previously approved plans and specifications or permit. If the Permit Board determines the changes are substantial, it may require the submission of a new application to construct with "as built" plans and specifications. Notwithstanding any provision herein to the contrary, the acceptance of an "as built" application shall not constitute a waiver of the right

to seek compliance penalties pursuant to State Law. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.5.D(2).)

Part II.
EMISSION LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to construct air emissions equipment for the emission of air contaminants from the Mineral Wool Insulation Manufacturing Facility:

Emission Point	Description
AA-000	**Mineral Wool Insulation Manufacturing Facility**
AA-100	**Mineral Wool Line 1 (L1)**
AA-101	Melting Furnace firing coal, natural gas, and oxygen with secondary combustion chamber and integrated SNCR equipped with two baghouses in series. The first baghouse is considered inherent to the process, and the second baghouse is equipped with dry sorbent and semi-dry recycle sorbent injection to control sulfur dioxide and acid gases.
AA-102	Combined stack for the Spinning Chamber with pretreatment filtration and the Cooling Section (following the Curing Oven) with pretreatment filtration. Emissions from both sources are controlled by a shared wet electrostatic precipitator for control of particulate matter emissions.
AA-103	Curing Oven consisting of two (2) natural gas-fired circulation burners with exhaust controlled by a natural gas-fired main burner afterburner, then pretreatment filtration.
AA-105	Line De-dusting Baghouse
AA-106	Two (2) Cooling Towers
AA-107	Edge Trim Baghouse
AA-109	Fugitive Emissions from Material Handling
AA-111	Conveyor Transfer Point (No. 2) with fabric filter
AA-112	Charging Building Material Handling with fabric filter, which vents inside the building
AA-113	Charging Building Vacuum System with fabric filter
AA-114	Two (2) coal storage silos with bin vent filters
AA-115	Coal Feed Tank with bin vent filter
AA-116	Filter Fines Receiving Silo with bin vent filter
AA-118	Dry Ice Cleaning (fugitive source venting inside the Furnace/Curing building)
AA-119	Fleece Application
AA-120	Lime Storage Silo with bin vent filter
AA-300	**Recycle Plant (RP1)**
AA-304	Melting Furnace Portable Crusher (temporary source brought in from a third party as needed)
AA-305	Fugitive Emissions from Recycle Plant Material Handling

Emission Point	Description
AA-500	**Rockfon Line (RFN1)**
AA-501	IR Zone
AA-502	Hot Press & Cure
AA-503	De-dusting Baghouse for control of cutting, sanding, and milling operations. (Exhaust from the De-dusting Baghouse may be routed through an additional filter and back to the Rockfon Building (AA-510) to provide tempered air for the building.)
AA-504	Drying Oven 1 equipped with particulate filters for PM control
AA-505	High Oven A
AA-506	Drying Oven 2 & 3 equipped with particulate filters for PM control
AA-507	Cooling Zone
AA-509	Spray Paint Cabin equipped with particulate filters for control of overspray (PM)
AA-510	Rockfon Building Exhaust
AA-600	**Other Facility-Wide Operations and Activities**
AA-600a	3.0 MMBTUH natural gas-fired boiler equipped with a low-NOx burner
AA-600b	3.0 MMBTUH natural gas-fired boiler equipped with a low-NOx burner
AA-600c	157 horsepower diesel-fired emergency fire pump engine with dedicated 180-gallon diesel fuel tank
AA-600e	Welding shop equipped with a vent filter to serve Mineral Wool Line 1.
AA-600h	Rockfon Building 700 Natural Gas-fired Sources
AA-600i	Rockfon Miscellaneous Natural Gas-fired Sources
AA-600j	Rockfon Maintenance Welding Shop
AA-602	Facility-Wide Storage Tanks
AA-603	Facility-Wide Fugitive Emissions from Roadways

Part III.
EMISSION POINT SPECIFIC LIMITATIONS AND STANDARDS

Emission Point	Applicable Requirement	Condition Number	Pollutant/ Parameter	Limit/Standard
AA-000 *(Facility-wide)*	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012	III.9	Opacity	20% where otherwise not indicated and/or limited
AA-101	11 Miss. Admin. Code Pt. 2, R. 1.4.B(1).	III.10	SO_2	500 ppmv (30-day rolling average)
AA-000 *(Facility-wide)*	40 CFR 63, Subpart A	III.11	NESHAP – Subpart A	Applicability of General Provisions
	40 CFR 60, Subpart A	III.12	NSPS – Subpart A	Applicability of General Provisions
AA-101, AA-102, AA-103, AA-118	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j) as established in the PSD Construction Permit Issued August 22, 2012, and modified on DATE	III.13	CO_2e	BACT: 158,060 tpy (combined limit) and good operation and maintenance to improve energy efficiency
	40 CFR 63.1177	III.14	NESHAP – Subpart DDD	Applicability
AA-101	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014 and DATE	III.16	PM (filterable)	BACT: Use of baghouse
		III.16	PM_{10} (filterable and condensable)	BACT: 1.08 lb/ton of melt and use of baghouse
		III.17	$PM_{2.5}$ (filterable and condensable)	BACT: 0.39 lb/ton of melt and use of baghouse
		III.18	SO_2	BACT: 78.77 lb/hr based on 30-day average (based on CEM for SO_2) and use of a fabric filter with dry sorbent and semi-dry recycle sorbent injection
		III.19	H_2SO_4	BACT: 0.12 lb/ton melt and use of a fabric filter with dry sorbent and semi-dry recycle sorbent injection
		III.20	CO	BACT: 13.29 lb/hr CO based on 30-day average (based on CEM for CO) and use of secondary combustion chamber
	40 CFR 63.1178(a) and Table 2, Subpart DDD	III.15	COS	3.2 lb/ton of melt
			PM (filterable only)	0.10 lb/ton of melt
			HF	0.015 lb/ton melt
			HCl	0.012 lb/ton melt

Emission Point	Applicable Requirement	Condition Number	Pollutant/ Parameter	Limit/Standard
	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014	III.21	NO_x	BACT: 32.75 lb/hr based on 30-day average (based on CEMS for NO_x) and use of SNCR
				BACT: use of natural gas and good combustion practices for preheat burners
AA-102	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014 and DATE	III.22, III.23	$PM/PM_{10}/ PM_{2.5}$ (filterable)	BACT: pretreatment filtration (Spinning Chamber) and pretreatment filtration (Cooling Section)
	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(k), as established in the PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014	III.22	PM_{10} (filterable and condensable)	13.21 lb/hr
		III.23	$PM_{2.5}$ (filterable and condensable)	7.29 lb/hr
AA-103	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012 and modified DATE	III.25, III.26	$PM/PM_{10}/ PM_{2.5}$ (filterable)	BACT: pretreatment filtration
		III.25	PM_{10} (filterable and condensable)	BACT: 6.25 lb/hr
		III.26	$PM_{2.5}$ (filterable and condensable)	BACT: 5.18 lb/hr
		III.27	NO_x	BACT: 12.13 lb/hr and good combustion practices
				BACT: 0.078 lb/MMBTU for circulation burners and afterburner when utilizing Natural Gas only
		III.29	CO	BACT: Use of Afterburner
			VOC	
		III.28	SO_2 and H_2SO_4	BACT: Natural gas only
AA-102*, AA-103 *Spinning Chamber Only	40 CFR 63.1179(a) and Table 2, Subpart DDD	III.74	Formaldehyde	2.4 lb/ton melt
			Methanol	0.92 lb/ton melt
			Phenol	0.71 lb/ton melt
AA-105, AA-107	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012	III.30	PM/PM_{10} (filterable)	BACT: 0.0044 gr/dscf, use of baghouse, and good housekeeping practices
		III.31	$PM_{2.5}$ (filterable)	BACT: 0.0022 gr/dscf, use of baghouse, and good housekeeping practices

Emission Point	Applicable Requirement	Condition Number	Pollutant/ Parameter	Limit/Standard
AA-106	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012	III.32	$PM/PM_{10}/PM_{2.5}$ (filterable)	BACT: High efficiency Mist Eliminators; 0.005% drift loss
AA-109	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012	III.33	$PM/PM_{10}/PM_{2.5}$ (filterable)	BACT: Partial enclosures and good housekeeping practices
AA-111	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified February 25, 2014	III.35	PM/PM_{10} (filterable)	BACT: 0.02 tpy and use of fabric filter and good housekeeping practices
		III.36	$PM_{2.5}$ (filterable)	BACT: 0.01 tpy and use of fabric filter and good housekeeping practices
	40 CFR 60.672(a)	III.39	NSPS	0.014 gr/dscf
	40 CFR 60.670	III.40	NSPS – Subpart OOO	Applicability
AA-112	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified February 25, 2014 and DATE	III.35	PM/PM_{10} (filterable)	BACT: 0.31 tpy and use of fabric filter and good housekeeping practices
		III.36	$PM_{2.5}$ (filterable)	BACT: 0.16 tpy and use of fabric filter and good housekeeping practices
	40 CFR 60.670	III.40	NSPS – Subpart OOO	Applicability
	40 CFR 60.672(a)	III.42	NSPS	7% Opacity
AA-113	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified February 25, 2014	III.37	PM/PM_{10} (filterable)	BACT: 1.24 tpy and use of fabric filter and good housekeeping practices
		III.38	$PM_{2.5}$ (filterable)	BACT: 0.62 tpy and use of fabric filter and good housekeeping practices
AA-114	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified February 25, 2014	III.41	PM/PM_{10} (filterable)	BACT: 0.39 tpy and use of bin vent filter and good housekeeping practices
		III.43	$PM_{2.5}$ (filterable)	BACT: 0.19 tpy and use of bin vent filter and good housekeeping practices
AA-115	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified February 25, 2014	III.41	PM/PM_{10} (filterable)	BACT: 0.39 tpy and use of bin vent filter and good housekeeping practices
		III.43	$PM_{2.5}$ (filterable)	BACT: 0.19 tpy and use of bin vent filter and good housekeeping practices

Emission Point	Applicable Requirement	Condition Number	Pollutant/ Parameter	Limit/Standard
AA-116	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified February 25, 2014	III.35	PM/PM_{10} (filterable)	BACT: 0.24 tpy and use of fabric filter and good housekeeping practices
		III.36	$PM_{2.5}$ (filterable)	BACT: 0.12 tpy and use of fabric filter and good housekeeping practices
	40 CFR 60.672(a)	III.42	NSPS	7% Opacity
	40 CFR 60.670	III.40	NSPS – Subpart OOO	Applicability
AA-119	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017	III.65	VOC	BACT: Compliance with NESHAP JJJJ (use of compliant coating) and good work practices
AA-103, AA-119	40 CFR 63.3290, 63.3320, 63.3321	III.66	NESHAP – Subpart JJJJ	Applicability, Emission Standards, and Operating Limits
AA-120	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified February 1, 2017	III.67	PM/PM_{10} (filterable)	BACT: 0.04 lb/hr (24-hr average) and use of bin vent filter and good housekeeping practices
		III.68	$PM_{2.5}$ (filterable)	BACT: 0.02 lb/hr (24-hr average) and use of bin vent filter and good housekeeping practices
AA-304	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012	III.44	$PM/PM_{10}/PM_{2.5}$ (filterable)	BACT: 12 hours/day, up to 360 hr/yr operational limit and good housekeeping practices
AA-305	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012	III.33	$PM/PM_{10}/PM_{2.5}$ (filterable)	BACT: Use of partial enclosures and good housekeeping practices
AA-500	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017	III.51	CO_2e	BACT: 6,298.41 tpy and good operation and maintenance to improve energy efficiency

Emission Point	Applicable Requirement	Condition Number	Pollutant/ Parameter	Limit/Standard
AA-501 AA-502 AA-503 AA-507 AA-509	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014; February 1, 2017; and DATE	III.52	PM_{10} (filterable and condensable)	BACT: 0.02 lb/hr (24-hr average) and good housekeeping practices (AA-501) BACT: 0.02 lb/hr (24-hr average) and good housekeeping practices (AA-502) BACT: 0.34 lb/hr (24-hr average) use of baghouse and good housekeeping practices (AA-503) – *filterable only BACT: 0.19 lb/hr (24-hr average) and good housekeeping practices (AA-507) BACT: 0.88 lb/hr (24-hr average) use of filter and good housekeeping practices (AA-509)
		III.53	$PM_{2.5}$ (filterable and condensable)	BACT: 0.01 lb/hr (24-hr average) and good operating practices (AA-501) BACT: 0.01 lb/hr (24-hr average) and good housekeeping practices (AA-502) BACT: 0.17 lb/hr (24-hr average) use of baghouse and good housekeeping practices (AA-503) – *filterable only BACT: 0.14 lb/hr (24-hr average) and good housekeeping practices (AA-507) BACT: 0.66 lb/hr (24-hr average) use of filter and good housekeeping practices (AA-509)
		III.72	VOC	BACT: 53g/kg VOC content glue and 7.48 tpy (rolling 12 months) (AA-501 and AA-502)
AA-504, AA-505, AA-506	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014; February 1, 2017; and DATE	III.54	PM_{10} (filterable and condensable)	BACT: Use of particulate filter; 0.08 lb/hr (24-hr average) and good combustion practices (AA-504) BACT: 0.12 lb/hr (24-hr average) and good combustion practices (AA-505) BACT: Use of particulate filter; 0.13 lb/hr (24-hr average) and good combustion practices (AA-506)
		III.55	$PM_{2.5}$ (filterable and condensable)	BACT: Use of particulate filter; 0.06 lb/hr (24-hr average) and good combustion practices (AA-504) BACT: 0.09 lb/hr (24-hr average) and good combustion practices (AA-505) BACT: Use of particulate filter; 0.09 lb/hr (24-hr average) and good combustion practices (AA-506)
		III.56	SO_2	BACT: good combustion practices and use of natural gas (AA-504, AA-505, and AA-506)
			NO_x	
			CO	

Emission Point	Applicable Requirement	Condition Number	Pollutant/ Parameter	Limit/Standard
AA-504, AA-505, AA-506, AA-507, AA-509	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017	III.57	VOC	BACT: 30.69 tpy (rolling 12 months), use of water-based coating with 80g/L VOC content, and good work practices
AA-510	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017	III.69	$PM/PM_{10}/PM_{2.5}$ (filterable)	BACT: Good housekeeping practices
AA-600a, AA-600b	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014; and February 1, 2017	III.58	NO_x	BACT: Use of low-NO_x burners meeting 30 ppmvd NO_x @ 3% O_2
		III.34	PM (filterable), $PM_{10}/PM_{2.5}$ (filterable and condensable)	BACT: good combustion practices and use of natural gas
			CO	
			VOC	
			SO_2	
	40 CFR 63.7480	III.59	NESHAP – Subpart DDDDD	Applicability
AA-600c	40 CFR 60.4205(c)	III.60	PM (filterable), $PM_{10}/PM_{2.5}$ (filterable and condensable)	NSPS IIII Table 4 standards for PM and NO_x + NMHC and compliance with NSPS Subpart IIII
			NO_x	
			CO	
			VOC	
	40 CFR 60.4207(b)	III.61	SO_2	Use of diesel fuel meeting 40 CFR 60.4207(b)
	40 CFR 60.4200	III.62	NSPS – Subpart IIII	Applicability
AA-600e and AA-600j	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017	III.63	$PM/PM_{10}/PM_{2.5}$ (filterable)	BACT: Use of filter
AA-600h	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD	III.70	NO_x	BACT: Good combustion practices, Use of lox-NO_x burners meeting 70 ppmvd NO_x (4.72 MMBTU/hr heaters)

Emission Point	Applicable Requirement	Condition Number	Pollutant/ Parameter	Limit/Standard
	Construction Permit Issued August 22, 2012, and modified on February 25, 2014; February 1, 2017; and DATE	III.71	PM (filterable), $PM_{10}/PM_{2.5}$ (filterable and condensable)	BACT: Good combustion practices and use of natural gas
			CO	
			VOC	
			SO_2	
AA-600i	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017	III.73	NO_x	BACT: Good combustion practices and use of natural gas
			PM (filterable), PM_{10}/ $PM_{2.5}$ (filterable and condensable)	
			CO	
			VOC	
			SO_2	
AA-602	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017	III.49	VOC	BACT: Good operating practices
AA-603	11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014	III.64	$PM/PM_{10}/PM_{2.5}$ (filterable)	BACT: Development of a Dust Control Plan

III.1 RESERVED

III.2 RESERVED

III.3 RESERVED

III.4 RESERVED

III.5 RESERVED

III.6 RESERVED

III.7 RESERVED

III.8 RESERVED

III.9 For Emission Point AA-000 (the Entire Facility), the permittee shall limit opacity to no more than 20% (where otherwise not indicated and/or limited) as determined by EPA Method 9 or EPA Method 22. (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012)

III.10 For Emission Point AA-101, except as otherwise provided herein, no person shall cause or permit the emission of gas containing sulfur oxides (measured as sulfur dioxide) in excess of 500 ppm (volume), as determined on a 30-day rolling average. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.4.B(1).)

III.11 For Emission Point AA-000 (the Entire Facility), the permittee is subject to 40 CFR 63 – National Emission Standards for Hazardous Air Pollutants, specifically Subpart A – General Provisions, and shall comply with the applicable provisions. (Ref.: 40 CFR 63, Subpart A)

III.12 For Emission Point AA-000 (the Entire Facility), the permittee is subject to 40 CFR 60 – Standards of Performance for New Stationary Sources, specifically Subpart A – General Provisions, and shall comply with the applicable provisions. (Ref.: 40 CFR 60, Subpart A)

III.13 For Emission Points AA-101, AA-102, AA-103, and AA-118, the permittee shall limit emissions of Carbon Dioxide equivalent (CO_2e) to no more than 158,060 tons per year (combined) as determined by each consecutive 12-month period (rolling basis) and implement good operation and maintenance to maintain efficiency (BACT for CO_2e). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on DATE)

III.14 For Emission Points AA-101, AA-102, and AA-103, the permittee is subject to 40 CFR 63 – National Emission Standards for Hazardous Air Pollutants, specifically Subpart DDD – National Emission Standards for Hazardous Air Pollutant for Mineral Wool Production, and shall comply with the applicable provision. The permittee shall comply with all applicable requirements of Subpart DDD for new sources by the compliance dates established in the final reconsidered rule. (Ref.: 40 CFR 63, Subpart DDD)

III.15 For Emission Point AA-101, the permittee shall limit emissions in accordance with the following table.

Pollutant	**Emission Standard[1,2]**
PM (filterable)	0.10 lb/ton of melt
Carbonyl sulfide (COS)	3.2 lb/ton of melt
Hydrogen fluoride (HF)	0.015 lb/ton of melt

Hydrogen chloride (HCl)	0.012 lb/ton of melt

[1] Ton of melt shall include all raw materials, excluding coke, that are charged into the furnace, heated to a molten state, and discharged to the fiber forming and collection process.

(Ref.: 40 CFR 63.1178(a) and Table 2 of Subpart DDD)

III.16 For Emission Point AA-101, the permittee shall limit filterable and condensable PM_{10} emissions (filterable and condensable) to no more than 1.08 pounds of PM_{10} per ton of melt and shall utilize a baghouse for control of filterable particulate matter and PM_{10} emissions (BACT for PM and PM_{10}). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014 and DATE)

III.17 For Emission Point AA-101, the permittee shall limit $PM_{2.5}$ emissions (filterable and condensable) to no more than 0.39 pounds of $PM_{2.5}$ per ton of melt and shall utilize a baghouse for control of filterable $PM_{2.5}$ emissions (BACT for $PM_{2.5}$). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014)

III.18 For Emission Point AA-101, the permittee shall limit SO_2 emissions to no more than 78.77 pounds per hour based on 30-day average (based on Continuous Emissions Monitor for SO_2) and shall utilize a fabric filter with dry sorbent and semi-dry recycle sorbent injection (BACT for SO_2). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014)

III.19 For Emission Point AA-101, the permittee shall limit H_2SO_4 mist emissions to no more than 0.12 pounds per ton of melt and shall utilize a fabric filter with dry sorbent and semi-dry recycle sorbent injection (BACT for H_2SO_4). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014)

III.20 For Emission Point AA-101, the permittee shall limit CO emissions to 13.29 pounds per hour CO based on 30-day average (based on CEM for CO) and use of secondary combustion chamber (BACT for CO and VOC). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014)

III.21 For Emission Point AA-101, the permittee shall limit NO_x emissions to no more than 32.75 pounds per hour based on 30-day average (based on CEMS for NO_x) and use of SNCR. The permittee shall also utilize natural gas and good combustion practices for preheat burners. (BACT for NO_x). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014)

III.22 For Emission Point AA-102, the permittee shall limit total filterable and condensable PM_{10} to no more than 13.21 pounds per hour and shall utilize pretreatment filtration (BACT for PM/PM_{10} is pretreatment filtration for the Spinning Chamber and pretreatment filtration for the Cooling Section) for control of PM emissions. (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(k), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014)

III.23 For Emission Point AA-102, the permittee shall limit filterable and condensable $PM_{2.5}$ to no more than 7.29 pounds per hour and shall utilize pretreatment filtration (BACT for $PM_{2.5}$ is pretreatment filtration for the Spinning Chamber and pretreatment filtration for the Cooling Section) for control of particulate matter emissions. (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(k), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014)

III.24 RESERVED

III.25 For Emission Point AA-103, the permittee shall limit total filterable and condensable PM_{10} emissions to no more than 6.25 pounds per hour and shall utilize pretreatment filtration for control of PM/PM_{10} emissions (BACT for PM/PM_{10}). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on DATE)

III.26 For Emission Point AA-103, the permittee shall limit filterable and condensable $PM_{2.5}$ emissions to no more than 5.18 pounds per hour and shall utilize pretreatment filtration for control of $PM_{2.5}$ emissions (BACT for $PM_{2.5}$). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012)

III.27 For Emission Point AA-103, the permittee shall limit NO_x emissions to no more than 12.13 pounds per hour and shall utilize good combustion practices for control of NO_x emissions. The permittee shall also limit NO_x emissions from the circulation burners and afterburner to 0.078 lb/MMBTU when combusting natural gas only (BACT for NO_x). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012)

III.28 For Emission Point AA-103, the permittee shall combust only natural gas in the curing oven for the control of SO_2 and H_2SO_4 emissions (BACT for SO_2 and H_2SO_4). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on DATE)

III.29 For Emission Point AA-103, the permittee shall use an afterburner for control of CO and VOC (BACT for CO and VOC is use of afterburner). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012)

III.30 For Emission Points AA-105 and AA-107, the permittee shall limit filterable PM/PM_{10} emissions (from each emission point) to no more than 0.0044 grains per dry standard

cubic foot and shall utilize a baghouse and good housekeeping practices for control of PM/PM_{10} emissions (BACT for PM/PM_{10}). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012)

III.31 For Emission Points AA-105 and AA-107, the permittee shall limit filterable $PM_{2.5}$ emissions (from each emission point) to no more than 0.0022 grains per dry standard cubic foot and shall utilize a baghouse and good housekeeping practices for control of $PM_{2.5}$ emissions (BACT for $PM_{2.5}$). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012)

III.32 For Emission Point AA-106, the permittee shall utilize high efficiency mist eliminators (for each cooling tower), with a 0.005% drift loss, in order to control $PM/PM_{10}/PM_{2.5}$ emissions (BACT for $PM/PM_{10}/PM_{2.5}$). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012)

III.33 For Emission Points AA-109 and AA-305, the permittee shall utilize partial enclosures and good housekeeping practices (for each emission point) in order to control filterable $PM/PM_{10}/PM_{2.5}$ emissions (BACT for $PM/PM_{10}/PM_{2.5}$). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012)

III.34 For Emission Points AA-600a and AA-600b, the permittee shall utilize natural gas as fuel and good combustion practices (for each emission point) in order to control $PM/PM_{10}/PM_{2.5}$, SO_2, NO_x, VOC, and CO emissions (BACT for $PM/PM_{10}/PM_{2.5}$, SO_2, NO_x, VOC, and CO). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

III.35 For Emission Points AA-111, AA-112, and AA-116, the permittee shall limit filterable PM/PM_{10} emissions to no more than 0.02 tons per year, 0.31 tons per year, and 0.24 tons per year, respectively. The permittee shall utilize a fabric filter and good housekeeping practices for control of PM/PM_{10} emissions from each emission point (BACT for PM/PM_{10}). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified February 25, 2014 and DATE)

III.36 For Emission Points AA-111, AA-112, and AA-116, the permittee shall limit filterable $PM_{2.5}$ emissions to no more than 0.01 tons per year, 0.16 tons per year, and 0.12 tons per year, respectively. The permittee shall utilize a fabric filter and good housekeeping practices for control of $PM_{2.5}$ emissions from each emission point (BACT for $PM_{2.5}$). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified February 25, 2014 and DATE)

III.37 For Emission Point AA-113, the permittee shall limit filterable PM/PM_{10} emissions to no more than 1.24 tons per year and shall utilize a fabric filter and good housekeeping

practices for control of PM/PM_{10} emissions (BACT for PM/PM_{10}). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified February 25, 2014)

III.38 For Emission Point AA-113, the permittee shall limit filterable $PM_{2.5}$ emissions to no more than 0.62 tons per year and shall utilize a fabric filter and good housekeeping practices for control of PM/PM_{10} emissions (BACT for $PM_{2.5}$). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified February 25, 2014)

III.39 For Emission Point AA-111, the permittee shall limit PM emissions to no more than 0.014 grains/dry standard cubic foot. (Ref.: 40 CFR 60.672(a), Table 2)

III.40 For Emission Points AA-111, AA-112, and AA-116, the permittee is subject to and shall comply with 40 CFR 60, Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants. (Ref.: 40 CFR 60, Subpart OOO)

III.41 For Emission Points AA-114 and AA-115, the permittee shall limit filterable PM/PM_{10} emissions (from each emission point) to no more than 0.39 tons per year and shall utilize a bin vent filter and good housekeeping practices for control of PM/PM_{10} emissions (BACT for PM/PM_{10}). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified February 25, 2014)

III.42 For Emission Points AA-112 and AA-116, the permittee shall limit opacity to 7%. (Ref.: 40 CFR 60.672(a), (e), and (f))

III.43 For Emission Points AA-114 and AA-115, the permittee shall limit filterable $PM_{2.5}$ emissions (from each emission point) to no more than 0.19 tons per year and shall utilize a bin vent filter and good housekeeping practices for control of $PM_{2.5}$ emissions (BACT for $PM_{2.5}$). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified February 25, 2014)

III.44 For Emission Point AA-304, the permittee shall be limited to 12 hours per day, up to 360 hours per year of operation and shall utilize good housekeeping practices in order to control $PM/PM_{10}/PM_{2.5}$ emissions (BACT for $PM/PM_{10}/PM_{2.5}$). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012)

III.45 RESERVED

III.46 RESERVED

III.47 RESERVED

III.48 RESERVED

III.49 For Emission Point AA-602, the permittee shall utilize good operating practices in order to control VOC emissions (BACT for VOC). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

III.50 RESERVED

III.51 For Emission Point AA-500, the permittee shall limit emissions of Carbon Dioxide equivalent (CO_2e) to no more than 6,298.41 tons per year as determined by each consecutive 12-month period (rolling basis) and implement good operation and maintenance to maintain energy efficiency (BACT for CO_2e). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

III.52 For Emission Points AA-501, AA-502, AA-503, AA-507, and AA-509, the permittee shall limit PM_{10} emissions to no more than 0.02 lb/hr as a 24-hour average (AA-501), 0.02 lb/hr as a 24-hour average (AA-502), 0.34 lb/hr (filterable only) as a 24-hour average (AA-503), and 0.19 lb/hr as a 24-hour average (AA-507) and shall utilize good housekeeping practices (AA-501, AA-502, and AA-507) and utilize a baghouse and good housekeeping practices (AA-503) (BACT for PM/PM_{10}). The permittee shall also limit PM_{10} emissions to no more than 0.88 lb/hr as a 24-hour average (AA-509) and shall utilize a filter and good housekeeping practices (AA-509). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

III.53 For Emission Points AA-501, AA-502, AA-503, AA-507, and AA-509, the permittee shall limit $PM_{2.5}$ emissions to no more than 0.01 lb/hr as a 24-hour average (AA-501), 0.01 lb/hr as a 24-hour average (AA-502), 0.17 lb/hr (filterable only) as a 24-hour average (AA-503), and 0.14 lb/hr as a 24-hour average (AA-507) and shall utilize good housekeeping practices (AA-501, AA-502, and AA-507) and utilize a baghouse and good housekeeping practices (AA-503) (BACT for $PM_{2.5}$). The permittee shall also limit $PM_{2.5}$ emissions to no more than 0.66 lb/hr as a 24-hour average (AA-509) and shall utilize a filter and good housekeeping practices (AA-509). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

III.54 For Emission Points AA-504, AA-505, and AA-506, the permittee shall limit filterable and condensable PM_{10} emissions to no more than 0.08 lb/hr as a 24-hour average (AA-504), 0.12 lb/hr as a 24-hour average (AA-505), and 0.13 lb/hr as a 24-hour average (AA-506), and shall utilize good combustion practices for control of particulate matter emissions. The permittee shall also utilize a particulate filter for Emission Points AA-504 and AA-506 (BACT for PM/PM_{10}). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

III.55 For Emission Points AA-504, AA-505, and AA-506, the permittee shall limit filterable and condensable $PM_{2.5}$ emissions to no more than 0.06 lb/hr as a 24-hour average (AA-

504), 0.09 lb/hr as a 24-hour average (AA-505), and 0.09 lb/hr as a 24-hour average (AA-506), and shall utilize good combustion practices for control of particulate matter emissions. The permittee shall also utilize a particulate filter for Emission Points AA-504 and AA-506 (BACT for $PM_{2.5}$). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

III.56 For Emission Points AA-504, AA-505, and AA-506, the permittee shall utilize natural gas and good combustion practices for minimizing emissions of SO_2, NO_x, and CO (BACT for SO_2, NO_x, and CO). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014; February 1, 2017; and DATE)

III.57 For Emission Points AA-504, AA-505, AA-506, AA-507, and AA-509, the permittee shall limit VOC emissions to no more than 30.69 tons per year (rolling 12-month basis) and utilize good work practices and utilize water-based coatings with no more than 80 grams per liter volatile organic compound content in order to control VOC emissions (BACT for VOC). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

III.58 For Emission Points AA-600a and AA-600b, the permittee shall utilize low-NO_x burners meeting 30 ppmvd NO_x at 3% oxygen for each emission point in order to control NO_x emissions (BACT for NO_x). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

III.59 For Emission Points AA-600a and AA-600b, the permittee is subject to and shall comply with 40 CFR 63, Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters. (Ref.: 40 CFR 63.7480)

III.60 For Emission Point AA-600c, the permittee shall comply with all applicable emissions standards for PM (filterable) and NO_x + NMHC contained in Table 4 of 40 CFR 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (BACT for PM, NO_x, and VOC). (Ref.: 40 CFR 60.4205(c))

III.61 For Emission Point AA-600c, the permittee shall utilize diesel fuel that meets the requirements of 40 CFR 60.4207(b) (BACT for SO_2). (Ref.: 40 CFR 60.4207(b))

III.62 For Emission Point AA-600c, the permittee is subject to and shall comply with 40 CFR 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. (Ref.: 40 CFR 60.4200)

III.63 For Emission Points AA-600e and AA-600j, the permittee shall utilize a vent filter for minimizing emissions of filterable $PM/PM_{10}/PM_{2.5}$ (BACT for $PM/PM_{10}/PM_{2.5}$). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD

Construction Permit issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

III.64 For Emission Point AA-603, the permittee shall develop and implement a dust control plan in order to control filterable PM/PM_{10}/$PM_{2.5}$ emissions (BACT for PM_{10}/$PM_{2.5}$). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014)

III.65 For Emission Point AA-119, the permittee shall use a coating compliant with 40 CFR 63, Subpart JJJJ and good work practices (BACT for VOC). (Ref.: PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

III.66 For Emission Points AA-103 and AA-119, the permittee is subject to and shall comply with the applicable provisions of 40 CFR 63, Subpart JJJJ – National Emission Standards for Hazardous Air Pollutants: Paper and Other Web Coating, including the applicable provisions of the Emission Standards of 40 CFR 63.3320 and the Operating Limits of 40 CFR 63.3321. (Ref.: 40 CFR 63.3290, 40 CFR 63.3320, and 40 CFR 63.3221)

III.67 For Emission Point AA-120, the permittee shall limit PM/PM_{10} emissions to no more than 0.04 lb/hr as a 24-hour average and shall utilize a bin vent filter and good housekeeping practices for control of filterable PM/PM_{10} emissions (BACT for PM/PM_{10}). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified February 1, 2017)

III.68 For Emission Point AA-120, the permittee shall limit $PM_{2.5}$ emissions to no more than 0.02 lb/hr as a 24-hour average and shall utilize a bin vent filter and good housekeeping practices for control of filterable $PM_{2.5}$ emissions (BACT for $PM_{2.5}$). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified February 1, 2017)

III.69 For Emission Point AA-510, the permittee shall utilize good housekeeping practices in order to control filterable PM/PM_{10}/$PM_{2.5}$ emissions (BACT for PM/PM_{10}/$PM_{2.5}$). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

III.70 For Emission Point AA-600h, the permittee shall utilize good combustion practices and low-NO_x burners meeting 70 ppmvd NO_x (4.72 MMBTU/hr heaters) in order to control NO_x emissions (BACT for NO_x). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

III.71 For Emission Point AA-600h, the permittee shall utilize good combustion practices in order to control PM/PM_{10}/$PM_{2.5}$, SO_2, NO_x, VOC, and CO emissions (BACT for PM/PM_{10}/$PM_{2.5}$, SO_2, NO_x, VOC, and CO). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5.

and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014; February 1, 2017; and DATE)

III.72 For Emission Points AA-501 and AA-502, the permittee shall limit VOC emissions to no more 7.48 tons per year (rolling 12-month basis) and utilize glue with a VOC content of 53 g/kg in order to control VOC emissions (BACT for VOC). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

III.73 For Emission Point AA-600i, the permittee shall utilize good combustion practices in order to control PM/PM_{10}/$PM_{2.5}$, SO_2, NO_x, VOC, and CO emissions (BACT for PM/PM_{10}/$PM_{2.5}$, SO_2, NO_x, VOC, and CO). (Ref.: 11 Miss. Admin. Code Pt. 2, Ch. 5. and 40 CFR 52.21(j), as established in the PSD Construction Permit issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

III.74 For Emission Points AA-102 *(Spinning Chamber only)* and AA-103, the spinning chamber and curing oven are considered combined vertical collection/curing operations. Therefore, the permittee shall limit emissions in accordance with the following table.

Pollutant	**Emission Standard[1,2]**
Formaldehyde	2.4 lb/ton of melt
Methanol	0.92 lb/ton of melt
Phenol	0.71 lb/ton of melt

[1] Melt shall include all raw materials, excluding coke, that are charged into the furnace, heated to a molten state, and discharged to the fiber forming and collection process.

(Ref.: 40 CFR 63.1179(a) and Table 2 of Subpart DDD)

Part IV
EMISSION POINT SPECIFIC MONITORING AND RECORDKEEPING REQUIREMENTS

Emission Point	Pollutant/ Parameter Monitored	Compliance Requirement	Condition Number	Applicable Requirement
AA-000 (Facility-wide)	Opacity	Demonstrate compliance utilizing EPA Method 22 or EPA Method 9 (when applicable) for demonstrating compliance with the facility-wide limitation	IV.2	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017
	Control Equipment	Regular maintenance shall be maintained and kept in log form	IV.3	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017
	Emission Limitations	Maintain all records necessary to demonstrate compliance	IV.4	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017
AA-101, AA-102, AA-103, AA-118	CO_2e	Determine the Emission Rate for each consecutive 12-month period for demonstrating compliance with BACT	IV.5	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017
AA-101, AA-102, AA-103	NESHAP – Subpart DDD	Monitoring, testing, and recordkeeping requirements	IV.6	40 CFR 63, Subpart DDD
AA-101	PM (filterable)	Once Every Five Years Stack/Performance Testing for demonstrating compliance with Facility-Wide Limits, BACT Limits, and/or Emission Point Specific Limits by Developing Operational Ranges unless specified herein. These Operational Ranges shall be utilized for demonstrating compliance with Monthly Recordkeeping of Emission Rate.	IV.14	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014
	PM/PM_{10} (filterable and condensable)			
	$PM_{2.5}$ (filterable and condensable)			
	SO_2			
	H_2SO_4			
	CO			
	VOC			
	NO_x			
AA-102	PM/PM_{10} (filterable and condensable)	Once Every Five Years Stack/ Performance Testing for demonstrating compliance with Facility-Wide Limits, BACT Limits, and/or Emission Point Specific Limits by Developing Operational Ranges unless specified herein. These Operational Ranges shall be utilized for demonstrating compliance with Monthly Recordkeeping of Emission Rate.	IV.15	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014
	$PM_{2.5}$ (filterable and condensable)			

Emission Point	Pollutant/ Parameter Monitored	Compliance Requirement	Condition Number	Applicable Requirement
AA-103	PM/PM_{10} (filterable and condensable)	Once Every Five Years Stack/Performance Testing for demonstrating compliance with Facility-Wide Limits, BACT Limits, and/or Emission Point Specific Limits by Developing Operational Ranges unless specified herein. These Operational Ranges shall be utilized for demonstrating compliance with Monthly Recordkeeping of Emission Rate.	IV.17	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014
	$PM_{2.5}$ (filterable and condensable)			
	NO_x			
	SO_2	Monthly Recordkeeping Certification of Good Combustion Practices	IV.16	
	H_2SO_4			
	NO_x			
	CO VOC	Monitor temperature and hours of operation, and conduct annual inspection of burner	IV.19	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014,
AA-105, AA-107	PM/PM_{10} (filterable)	Once Every Five Years Stack/Performance Testing for demonstrating compliance with Facility-Wide Limits, BACT Limits, and Emission Point Specific Limits by Developing Operational Ranges unless specified herein. These Operational Ranges shall be utilized for demonstrating compliance with Monthly Recordkeeping of Emission Rate.	IV.15	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014
	$PM_{2.5}$ (filterable)			
AA-106	$PM/PM_{10}/PM_{2.5}$	Monthly Recordkeeping Certification of Good Operating Practices	IV.16	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014
AA-105, AA-107, AA-109, AA-120, AA-305, AA-510	$PM/PM_{10}/PM_{2.5}$	Monthly Recordkeeping Certification of Good Housekeeping Practices	IV.16	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017
AA-111, AA-112, AA-116	NSPS – Subpart OOO	Particulate Matter Standards	IV.20	40 CFR 60.672
		Monitoring Requirements	IV.21	40 CFR 60.674
		Test Methods and Procedures	IV.22	40 CFR 60.675
AA-113	PM/PM_{10} (filterable)	Once Every Five Years Stack/Performance Testing for demonstrating compliance with Facility-Wide Limits, BACT Limits, and Emission Point Specific Limits by	IV.15	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017
	$PM_{2.5}$ (filterable)			

Emission Point	Pollutant/ Parameter Monitored	Compliance Requirement	Condition Number	Applicable Requirement
		Developing Operational Ranges unless specified herein. These Operational Ranges shall be utilized for demonstrating compliance with Monthly Recordkeeping of Emission Rate.		
AA-111, AA-112, AA-113, AA-114, AA-115, AA-116	$PM/PM_{10}/PM_{2.5}$ (filterable)	Monthly Recordkeeping Certification of Good Housekeeping Practices	IV.16	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017
AA-304	$PM/PM_{10}/PM_{2.5}$ (filterable)	Monthly Recordkeeping Certification of Hours of Operation and Good Housekeeping Practices	IV.23	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014
AA-500 *(Rockfon Line)*	CO_2e	Determine the emission rate for each consecutive 12-month period for demonstrating compliance with the facility-wide emission limitations	IV.5	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017
	PM/PM_{10} (filterable and condensable)	Once Every Five Years Stack/Performance Testing for demonstrating compliance with Facility-Wide Limits, BACT Limits, and Emission Point Specific Limits by Developing Operational Ranges unless specified herein. These Operational Ranges shall be utilized for demonstrating compliance with Monthly Recordkeeping of Emission Rate.	IV.15	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017
	$PM_{2.5}$ (filterable and condensable)			
AA-501, and AA-502, and AA-507	$PM/PM_{10}/PM_{2.5}$ (filterable and condensable)	Monthly Recordkeeping Certification of Good Housekeeping Practices	IV.16	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017
	VOC	Monthly Recordkeeping Certification of Good Operating Practices		
AA-501, AA-502, AA-504, AA-505, AA-506, AA-507, AA-509	VOC	Monthly Recordkeeping Certification of Quality and Quantity VOC Content of Coating	IV.31	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017
AA-504, AA-505, AA-506	SO_2	Monthly Recordkeeping Certification of Good Combustion Practices	IV.16	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017
	NO_x			
	CO			
AA-503 and AA-510	$PM/PM_{10}/PM_{2.5}$ (filterable)	Monthly Recordkeeping Certification of Good Housekeeping Practices	IV.16	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017
AA-600a, AA-600b,	NESHAP – Subpart	Continuous Compliance Requirements	IV.32	40 CFR 63.7540

Emission Point	Pollutant/ Parameter Monitored	Compliance Requirement	Condition Number	Applicable Requirement
AA-600h, AA-600i	DDDDD			
	PM (filterable), $PM_{10}/PM_{2.5}$ (filterable and condensable)	Monthly Recordkeeping Certification of Good Combustion Practices	IV.16	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017
	NO_x			
	CO			
	VOC			
	SO_2			
AA-600c	NSPS – Subpart IIII	Monitoring Requirements	IV.33	40 CFR 60.4209
		Compliance Requirements	IV.34	40 CFR 60.4211
AA-602	VOC	Monthly Recordkeeping Certification of Good Operating Practices	IV.16	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017
AA-603	$PM_{10}/PM_{2.5}$ (filterable)	Implement Maintenance Guidelines for Dust Control Plan and Maintain all Necessary Records	IV.35	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014
AA-103, AA-119	NESHAP – Subpart JJJJ	General Requirements	IV.36	40 CFR 63.3340
		Control Device Monitoring and Compliance Demonstration Requirements	IV.37	40 CFR 63.3350 and 63.3370
		Performance Testing Requirements	IV.38	40 CFR 63.3360
		Recordkeeping Requirements	IV.39	40 CFR 63.3410
AA-600h, and AA-600i	PM (filterable), $PM_{10}/PM_{2.5}$ (filterable and condensable)	Monthly Recordkeeping Certification of Good Combustion Practices	IV.16	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017
	NOx			
	CO			
	VOC			
	SO2			

IV.1 RESERVED

IV.2 For Emission Point AA-000 (the Entire Facility), the permittee shall utilize EPA Reference Method 22 and/or EPA Reference Method 9 in order to show compliance with the facility-wide opacity limit and shall maintain sufficient monthly records to document compliance. EPA Method 9 shall be utilized when visible emissions are present during a Method 22 observation. This evaluation shall be conducted concurrently with the particulate matter stack testing required for all individual emission points with specific stack testing requirements. For purposes of determining compliance, the minimum total

time of observations shall be 3 hours (30 6-minute averages). However, if visibility or other conditions prevent the opacity observations from being performed concurrently with the stack testing, the permittee shall reschedule the opacity observations as soon after the stack testing as possible, but no later than thirty (30) days thereafter, and shall notify DEQ of the rescheduled date. The rescheduled opacity observations shall be conducted (to the extent possible) under the same operating conditions that existed during the stack test. (Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

IV.3 For Emission Point AA-000 (the Entire Facility), the permittee shall maintain monthly records documenting that the control devices were utilized at all times and shall record any required maintenance performed on the control devices. (Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

IV.4 For Emission Point AA-000 (the Entire Facility), the permittee shall maintain all records necessary to demonstrate compliance with the individual BACT emission limitations, NESHAP/MACT emission limitations, and any other information necessary to show compliance with the conditions in Section III of the permit herein. (Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

IV.5 For Emission Points AA-101, AA-102, and AA-103 and AA-500, the permittee shall determine and maintain sufficient monthly records to document the emission rate for CO_2e as determined for each consecutive 12-month period by utilizing calculation methodologies from the requirements of 40 CFR Part 98, Natural Gas Usage Records, and any other data necessary to demonstrate compliance with Conditions III.13 and III.51 of the permit herein. (Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

IV.6 For Emission Points AA-101, AA-102, and AA-103, the permittee shall comply with the applicable monitoring, testing, and recordkeeping provisions of 40 CFR 63 - Subpart DDD. (Ref.: 40 CFR 63, Subpart DDD)

IV.7 RESERVED

IV.8 RESERVED

IV.9 RESERVED

IV.10 RESERVED

IV.11 RESERVED

IV.12 RESERVED

IV.13 RESERVED

IV.14 For Emission Points AA-101, AA-102, and AA-103, the permittee shall perform an initial stack test within 180 days of certification of construction or within 60 days of reaching maximum production, whichever is earlier, to develop operational ranges to provide a reasonable assurance of compliance with Conditions III.15 through III.21 of the PSD construction permit herein. Operational ranges shall be derived from stack test data, vendor certification, operational history, and visual inspections, the combination of which demonstrates the proper operation of the equipment in compliance. For those operations and/or pollution control equipment that are similar such that reciprocal stack testing can be performed in lieu of stack/performance testing each piece of control equipment, the permittee may elect to perform stack/performance testing on one of the control equipment emission points provided that the permittee utilizes this data to determine compliance for all pieces of control equipment that would be considered reciprocal. If the stack/performance testing demonstrates that the permittee is in violation of the emission point, then the permittee will be in violation of all reciprocal emission points unless the permittee elects to perform stack/performance testing on the reciprocal emission control equipment to demonstrate compliance. The permittee is not required to perform an initial stack test or subsequent stack test for the burning of natural gas only condition unless required by MDEQ. The permittee shall utilize the following Test Methods or an alternative EPA approved test method:

(a) For filterable PM/PM_{10}, the permittee shall utilize EPA Reference Method 5
(b) For filterable $PM_{2.5}$, the permittee shall utilize EPA Reference Method 201A
(c) For condensable PM, the permittee shall utilize EPA Reference Method 202
(d) For CO (and VOC surrogate), the permittee shall utilize EPA Reference Method 10
(e) For NO_x, the permittee shall utilize EPA Reference Method 7E
(f) For SO_2, the permittee shall utilize EPA Reference Method 6
(g) For H_2SO_4, the permittee shall utilize EPA Reference Method 8

The permittee shall install and operate a Continuous Emissions Monitoring System (CEMS) for monitoring the emissions of CO, NO_x, and SO_2 according to the manufacturers design, specifications, and recommendations, of which a protocol shall be developed by the permittee and approved by the MDEQ prior to operation. The CEMS shall be installed no later than two years from start of operation. 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 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 the CEM 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 August 22, 2012, and modified on February 25, 2014)

IV.15 For Emission Points AA-102, AA-105, AA-107, AA-113, and AA-503, the permittee shall perform an initial stack test within 180 days of certification of construction or within 60 days of reaching maximum production, whichever is earlier, to develop operational ranges to provide a reasonable assurance of compliance with the applicable limits in Section III of the PSD construction permit herein. Operational ranges shall be derived from stack test data, vendor certification, operational history, and visual inspections, the combination of which demonstrates the proper operation of the equipment in compliance. For those operations and/or pollution control equipment that are similar such that reciprocal stack testing can be performed in lieu of stack/performance testing each piece of control equipment, the permittee may elect to perform stack/performance testing on one of the control equipment emission points provided that the permittee utilizes this data to determine compliance for all pieces of control equipment that would be considered reciprocal. If the stack/performance testing demonstrates that the permittee is in violation of the emission point, then the permittee will be in violation of all reciprocal emission points unless the permittee elects to perform stack/performance testing on the reciprocal emission control equipment to demonstrate compliance. The permittee shall utilize the following Test Methods or an alternative EPA approved test method:

(a) For filterable PM/PM_{10}, the permittee shall utilize EPA Reference Method 5
(b) For filterable $PM_{2.5}$, the permittee shall utilize EPA Reference Method 201A
(c) For condensable PM, the permittee shall utilize EPA Reference Method 202 (for AA-102)

For Emission Point AA-107, since the stack diameters are smaller than what can feasibly be tested with EPA Reference Method 201A, the permittee shall assume that $PM_{2.5}$ is 50% of the filterable PM for demonstrating compliance with the $PM_{2.5}$ emission limitations for these emission points. (Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

IV.16 For Emission Points AA-103, AA-105, AA-106, AA-107, AA-109, AA-111, AA-112, AA-113, AA-114, AA-115, AA-116, AA-120, AA-305, AA-500, AA-600a, AA-600b, AA-600h, AA-600i, and AA-602 the permittee shall maintain sufficient monthly records to certify that good operating, good housekeeping, and/or good combustion practices are being utilized for the control of air pollutants. 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 semi-annual report submittals:

"Based upon my inquiry of the person or persons directly responsible for managing compliance with the permit limitations described in Condition III.24, III.28, III.30, III.31, III.32, III.33, III.34, III.35, III.36, III.37, III.38, III.41, III.43, III.49, III.52, III.53, III.54, III.55, III.56, III.67, III.68, III.69, III.70, III.71, and III.73 of the Prevention of Significant Deterioration Permit to Construct (PSD Construction Permit Herein) Issued on August 22, 2012, and modified on February 25, 2014, and FEBRUARY 1, 2017 for

Emission Points AA-102, AA-103, AA-105, AA-106, AA-107, AA-109, AA-111, AA-112, AA-113, AA-114, AA-115, AA-116, AA-120, AA-305, AA-500, AA-600a, AA-600b, AA-600h, AA-600i, and AA-602, I certify that, to the best of my knowledge and belief, preventative maintenance is being performed in a manner consistent with vendor certification, manufacturer design and specifications, and/or other applicable means for minimizing emissions. I further certify that this facility is maintaining sufficient records to demonstrate this upon a site inspection visit or request by any DEQ personnel."

(Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

IV.17 For Emission Point AA-103, the permittee shall perform an initial stack test within 180 days of certification of construction or within 60 days of reaching maximum production, whichever is earlier, to develop operational ranges to provide a reasonable assurance of compliance with the applicable emission limits in Section III of the PSD construction permit herein. Operational ranges shall be derived from stack test data, vendor certification, operational history, and visual inspections, the combination of which demonstrates the proper operation of the equipment in compliance. For those operations and/or pollution control equipment that are similar such that reciprocal stack testing can be performed in lieu of stack/performance testing each piece of control equipment, the permittee may elect to perform stack/performance testing on one of the control equipment emission points provided that the permittee utilizes this data to determine compliance for all pieces of control equipment that would be considered reciprocal. If the stack/performance testing demonstrates that the permittee is in violation of the emission point, then the permittee will be in violation of all reciprocal emission points unless the permittee elects to perform stack/performance testing on the reciprocal emission control equipment to demonstrate compliance. The permittee is not required to perform an initial stack test or subsequent stack test for the burning of natural gas only condition unless required by MDEQ. The permittee shall utilize the following Test Methods or an alternative EPA approved test method:

(a) For filterable PM/PM_{10}, the permittee shall utilize EPA Reference Method 5
(b) For filterable $PM_{2.5}$, the permittee shall utilize EPA Reference Method 201A
(c) For condensable PM, the permittee shall utilize EPA Reference Method 202
(d) For NO_x, the permittee shall utilize EPA Reference Method 7E

(Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014)

IV.18 RESERVED

IV.19 For Emission Point AA-103, the permittee shall monitor and maintain sufficient records to document the curing oven afterburner parameters for demonstrating compliance with the CO and VOC BACT limits in Section III. The permittee may elect to utilize the operational ranges developed during the stack testing and/or develop alternative ranges

where necessary so long as these parameters do not contravene the stack test operational ranges. At a minimum, the permittee shall continuously record the following:

(a) the temperature in the combustion chambers;
(b) the hours of operation;
(c) perform an annual inspection of the burners

(Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014)

IV.20 For Emission Points AA-111, AA-112, and AA-116, the permittee shall comply with the applicable provisions of 40 CFR 60 - Subpart OOO, Particulate Matter Standards in 40 CFR 60.672. (Ref.: 40 CFR 60.672)

IV.21 For Emission Points AA-111, AA-112, and AA-116, the permittee shall comply with the applicable provisions of 40 CFR 60 - Subpart OOO, Monitoring Requirements in 40 CFR 60.674. (Ref.: 40 CFR 60.674)

IV.22 For Emission Points AA-111, AA-112, and AA-116, the permittee shall comply with the applicable provisions of 40 CFR 60 - Subpart OOO, Test Methods and Procedures in 40 CFR 60.675. (Ref.: 40 CFR 60.675)

IV.23 For Emission Point AA-304, the permittee shall maintain sufficient monthly records to demonstrate the hours of operation and to certify that good housekeeping practices are being utilized for the control of air pollutants. 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 semi-annual report submittals:

"Based upon my inquiry of the person or persons directly responsible for managing compliance with the permit limitations described in Condition III.44 of the Prevention of Significant Deterioration Permit to Construct (PSD Construction Permit Herein) Issued on August 22, 2012, and modified on February 25, 2014, for Emission Point AA-304, I certify that, to the best of my knowledge and belief, preventative maintenance is being performed in a manner consistent with vendor certification, manufacturer design and specifications, and/or other applicable means for minimizing emissions. I further certify that this facility is maintaining sufficient records to demonstrate this upon a site inspection visit or request by any DEQ personnel."

(Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014)

IV.24 RESERVED

IV.25 RESERVED

IV.26 RESERVED

IV.27 RESERVED

IV.28 RESERVED

IV.29 RESERVED

IV.30 RESERVED

IV.31 For Emission Points AA-501, AA-502, AA-504, AA-505, AA-506, AA-507, and AA-509, the permittee shall determine for each coating or other VOC containing material used and maintain sufficient monthly records to document:

(a) Quantity used (gal or lb)
(b) The content (gram per liter)
(c) The density (lbs per gallon)
(d) The permittee may utilize data supplied by the manufacturer, or analysis of VOC and HAP content by EPA Test Method 24 and/or 311. 40 CFR 60, Appendix A
(e) The permittee shall calculate the VOC and HAP emissions from the use of these material each month and compare the VOC emissions to those allowed under Conditions III.57 and III.72 of the permit herein

(Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

IV.32 For Emission Points AA-600a and AA-600b, the permittee shall comply with the applicable provisions of the Continuous Compliance Requirements of 40 CFR 63.7540. (Ref.: 40 CFR 63.7540)

IV.33 For Emission Point AA-600c, the permittee shall comply with the applicable provisions of the monitoring requirements of 40 CFR 60.4209. (Ref.: 40 CFR 60.4209)

IV.34 For Emission Point AA-600c, the permittee shall comply with the applicable provisions of the compliance requirements of 40 CFR 60.4211. (Ref.: 40 CFR 60.4211)

IV.35 For Emission Point AA-603, the permittee shall develop and implement maintenance guidelines for the dust control plan for demonstrating compliance with the BACT limit in Condition III.64 and maintain sufficient monthly records to demonstrate compliance. (Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014)

IV.36 For Emission Points AA-103 and AA-119, the permittee shall comply with the applicable provisions of the General Requirements of 40 CFR 63.3340. (Ref.: 40 CFR 63.3340)

IV.37 For Emission Points AA-103 and AA-119, the permittee shall comply with the applicable provisions of Demonstrating Compliance with the Emission Standards of 40 CFR 63.3370 and Control Devices Monitoring of 40 CFR 63.3350, as applicable. (Ref.: 40 CFR 3370 and 40 CFR 63.3350)

IV.38 For Emission Points AA-103 and AA-119, the permittee shall comply with the applicable provisions of the Performance Testing Requirements of 40 CFR 63.3360. (Ref.: 40 CFR 63.3360)

IV.39 For Emission Points AA-103 and AA-119, the permittee shall comply with the applicable provisions of the Recordkeeping Requirements of 40 CFR 63.3410. (Ref.: 40 CFR 63.3410)

PART V
EMISSION POINT SPECIFIC REPORTING REQUIREMENTS

Emission Point	Pollutant/ Parameter Monitored	Compliance Requirement	Condition Number	Applicable Requirement
AA-000 *(Facility-wide)*	Performance Testing	Submit results no later than 60 days from actual test	V.1	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017
	Deviations	Reported with 5 days from the time the deviation began	V.2	
	BACT Limits	Semi-Annual Report of Calculated BACT Limits	V.3	
	Good Operation Requirements	Semi-Annual Certification of Monthly Good Operation Requirements	V.4	
	Good Combustion Practices	Semi-Annual Certification of Monthly Good Combustion Requirements		
	Good Housekeeping Practices	Semi-Annual Certification of Monthly Good Housekeeping Requirements		
	Certification of Construction	Report in writing the effective date of start-up no later than 10 days following commencement	V.5	
	Control Equipment	Semi-Annual Reports demonstrating that control devices were operated at all times	V.6	
	CAM	Semi-Annual Reports providing any deviations from approved CAM Plan	V.7	
	Opacity	Semi-Annual Reports providing Visible Emission Measurement (VEM) exceedances	V.8	
AA-101, AA-102, AA-103, AA-118	CO_2e	Semi-Annual Report of Calculated BACT Limits	V.10	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014
AA-101	PM (filterable)	Semi-Annual Report of Calculated short term BACT Limits	V.11	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014
	PM/PM_{10} (filterable and condensable)			
	$PM_{2.5}$ (filterable and condensable)			
	NO_x			
	CO			
	VOC			

Emission Point	Pollutant/ Parameter Monitored	Compliance Requirement	Condition Number	Applicable Requirement
	H_2SO_4			
	SO_2			
AA-102	PM/PM_{10} (filterable and condensable)	Semi-Annual Report of Calculated short term BACT Limits	V.12	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014
	$PM_{2.5}$ (filterable and condensable)			
AA-103	PM/PM_{10} (filterable and condensable)	Semi-Annual Report of Calculated short term BACT Limits	V.13	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014
	$PM_{2.5}$ (filterable and condensable)			
	NO_x			
	CO			
	VOC			
AA-105, AA-107	PM/PM_{10} (filterable)	Semi-Annual Report of Calculated short term BACT Limits	V.12	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014
	$PM_{2.5}$ (filterable)			
AA-500	PM/PM_{10} (filterable and condensable)	Semi-Annual Report of Calculated BACT Limits	V.12	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017
	$PM_{2.5}$ (filterable and condensable)			
	CO_2e		V.10	
AA-504, AA-505, AA-506, AA-507, AA-509	VOC	Semi-annual report providing the VOC Content	V.14	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017
AA-101, AA-102, AA-103	NESHAP – Subpart DDD	Notification Requirements	V.15	40 CFR 63.1191
		Reporting Requirements	V.16	40 CFR 63.1193
AA-000 *(Entire Facility)*	Collective Reporting Requirements	Semi-annual reports not identified elsewhere	V.19	PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017
AA-111, AA-112,	PM/PM_{10} (filterable and condensable)	Semi-Annual Report of Calculated BACT Limits	V.12	PSD Construction Permit Issued August 22, 2012, and

Emission Point	Pollutant/ Parameter Monitored	Compliance Requirement	Condition Number	Applicable Requirement
AA-113, AA-114, AA-115, AA-116, AA-120	$PM_{2.5}$ (filterable and condensable)			modified on February 25, 2014, and February 1, 2017
AA-111, AA-112, AA-116	NSPS – Subpart OOO	Reporting and Recordkeeping Requirements	V.20	40 CFR 60.676
AA-600a, AA-600b	NESHAP – Subpart DDDDD	Notifications Requirements	V.21	40 CFR 63.7545
		Reporting Requirements	V.22	40 CFR 63.7550
		Recordkeeping Requirements	V.23	40 CFR 63.7555
AA-600c	NSPS – Subpart IIII	Notification, Reporting, and Recordkeeping Requirements	V.24	40 CFR 60.4214
AA-103, AA-119	NESHAP – Subpart JJJJ	Notification and Reporting Requirements	V.25	40 CFR 63.3400

V.1 For Emission Point AA-000 (the Entire Facility), the permittee shall submit the results of the required Emission Point Specific Performance Testing within 60 days of the actual test for demonstrating compliance with the Emission Point Specific Limitation. (Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

V.2 For Emission Point AA-000 (the Entire Facility), any deviation(s) from the permit herein shall be reported within 5 days from the time of the deviation began. The report shall also include the probable cause of deviation(s) and any corrective action(s) or preventative measure taken. (Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

V.3 For Emission Point AA-000 (the Entire Facility), the permittee shall submit semi-annual reports by July 31st and January 31st for the preceding six-month period containing the emission point specific BACT limitation rates, and any other emission point-specific emission limitation for demonstrating compliance with the Facility-Wide Emission Rates, Emission Point-Specific BACT Limits and any other Emission Point-Specific Emission Limitations. The facility's first semi-annual reports are due January 31, 2015, or by the applicable July 31 or January 31 deadline following the first full six (6) months of operation. (Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

V.4 For Emission Point AA-000 (the Entire Facility) where applicable (specifically AA-103, AA-105, AA-106, AA-107, AA-109, AA-111, AA-112, AA-113, AA-114, AA-115, AA-116, AA-120, AA-305, AA-500, AA-600h, AA-600i, and AA-602), the permittee shall submit semi-annual reports providing the Good Operation, Good Combustion, and/or Good Housekeeping statements in accordance with Condition IV.16 of the permit herein.

(Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

V.5 For Emission Point AA-000 (the Entire Facility), the permittee shall submit to the MDEQ in writing the effective date of start-up no later than 10 days after commencement of operation. (Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

V.6 For Emission Point AA-000 (the Entire Facility), the permittee shall submit semi-annual reports certifying that the control equipment (Facility-Wide) was operated at all times during manufacturing. (Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

V.7 For Emission Point AA-000 (the Entire Facility), the permitted shall submit semi-annual reports containing the requirements of Condition IV.2 of the permit herein for demonstrating compliance with Condition III.9 of the permit herein no later than July 31st and January 31st. (Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

V.9 RESERVED

V.l0 For Emission Points AA-101, AA-102, AA-103, AA-118, and AA-500, the permittee shall submit semi-annual reports by July 31st and January 31st for the preceding six-month period containing the emission rates of CO_2e for demonstrating compliance with the Emission Limitations in Conditions III.13 and III.51 and the Monitoring and Recordkeeping in Condition IV.5. (Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

V.11 For Emission Point AA-101, the permittee shall submit semi-annual reports by July 31st and January 31st for the preceding six-month period containing the emission rates of NO_x, CO, VOC, PM (filterable), PM/PM_{10} (filterable and condensable), $PM_{2.5}$ (filterable and condensable), H_2SO_4, and SO_2 for demonstrating compliance with the Emission Limitations in Conditions III.15 through III.21 and the Monitoring and Recordkeeping in Condition IV.14. (Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014)

V.12 For Emission Points AA-105, AA-107, AA-111, AA-112, AA-113, AA-114, AA-115, AA-116, AA-120, and AA-500 (for those sources with PM, PM_{10}, and/or $PM_{2.5}$ limits), the permittee shall submit semi-annual reports by July 31st and January 31st for the preceding six month period containing the emission rate of PM/PM_{10} and $PM_{2.5}$ for demonstrating compliance with the Emission Limitations in Conditions III.22, III.23, III.30, III.31, III.35, III.36, III.37, III.38, III.41, III.43, III.52, III.53, III.54, III.55, III.67, and III.68 the Monitoring and Recordkeeping in Permit Condition IV.15. (Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

V.13 For Emission Point AA-103, the permittee shall submit semi-annual reports by July 31st and January 31st for the preceding six-month period containing the emission rate of PM/PM_{10} (filterable and condensable), $PM_{2.5}$ (filterable and condensable), NO_x, and Formaldehyde (surrogate for CO and VOC) for demonstrating compliance with the Emission Limitations in Conditions III.25, III.26, III.27, and III.29 and the Monitoring and Recordkeeping in Permit Conditions IV.16 through IV.19. (Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

V.14 For Emission Points AA-501, AA-502, AA-504, AA-505, AA-506, AA-507, and AA-509, the permittee shall submit semi-annual reports by July 31st and January 31st for the preceding six-month period containing the emission rate of VOC for determining compliance with the Emission Limitations in Permit Conditions III.57 and III.72 and the Monitoring and Recordkeeping in Permit Condition IV.31. The report shall contain the following:

(a) Quantity used (gal or lb)
(b) The content (gram per liter)
(c) The density (lbs per gallon)
(d) The permittee may utilize data supplied by the manufacturer, or analysis of VOC and HAP content by EPA Test Method 24 and/or 311. 40 CFR 60, Appendix A
(e) The permittee shall calculate the VOC and HAP emissions from the use of these material each month and compare the VOC emissions to those allowed under Condition III.57 of the permit herein

(Ref.: PSD Construction Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

V.15 For Emission Points AA-101, AA-102, and AA-103, the permittee shall comply with the applicable provisions of 40 CFR 63 - Subpart DDD, specifically 40 CFR 63.1191 and submit Notification Requirements. (Ref.: 40 CFR 63.1191)

V.16 For Emission Points AA-101, AA-102, and AA-103, the permittee shall comply with the applicable provisions of 40 CFR 63 - Subpart DDD, specifically 40 CFR 63.1193 and submit Reporting Requirements. (Ref.: 40 CFR 63.1193)

V.17 RESERVED

V.18 RESERVED

V.19 For the Entire Facility, the permittee shall submit semi-annual reports by July 31st and January 31st for the preceding six-month period. Where a specific requirement states 30 days from the semi-annual period ending June 30th and December 31st, the permittee shall comply with the more stringent reporting requirement of 30 days and submit said reports of all semi-annual monitoring in its entirety collectively. (Ref.: PSD Construction

Permit Issued August 22, 2012, and modified on February 25, 2014, and February 1, 2017)

V.20 For Emission Points AA-111, AA-112, and AA-116, the permittee shall comply with the applicable provisions of 40 CFR 60, Subpart OOO, specifically 40 CFR 60.676 and submit Reporting and Recordkeeping Requirements. (Ref.: 40 CFR 60.676)

V.21 For Emission Points AA-600a and AA-600b, the permittee shall comply with the applicable provisions of the notification requirements contained in 40 CFR 63, Subpart DDDDD, specifically 40 CFR 63.7545. (Ref.: 40 CFR 63.7545)

V.22 For Emission Points AA-600a and AA-600b, the permittee shall comply with the applicable provisions of the reporting requirements contained in 40 CFR 63, Subpart DDDDD, specifically 40 CFR 63.7550. (Ref.: 40 CFR 63.7550)

V.23 For Emission Points AA-600a and AA-600b, the permittee shall comply with the applicable provisions of the recordkeeping requirements contained in 40 CFR 63, Subpart DDDDD, specifically 40 CFR 63.7555. (Ref.: 40 CFR 63.7555)

V.24 For Emission Point AA-600c, the permittee shall comply with the applicable provisions of 40 CFR 60, Subpart IIII, specifically 40 CFR 60.4214 and submit Notification, Reporting, and Recordkeeping Requirements. (Ref.: 40 CFR 60.4214)

V.25 For Emission Points AA-103 and AA-119, the permittee shall comply with the applicable provisions of the Notification and Reporting Requirements of 40 CFR 63.3400. (Ref.: 40 CFR 63.3400)