STATE OF MISSISSIPPI AND FEDERALLY ENFORCEABLE AIR POLLUTION CONTROL

PERMIT

TO OPERATE AIR EMISSIONS EQUIPMENT AT A SYNTHETIC MINOR SOURCE

THIS CERTIFIES THAT

Taylor Machine Works Inc, Plant 1, Plant 2, and Plant 3
3690 North Church Avenue (Plant 1)
107 Thompson Street (Plant 2)
205 Giffin Industrial Drive (Plant 3)
Louisville, Mississippi
Winston County

has been granted permission to operate air emissions equipment in accordance with emission limitations, monitoring requirements and conditions set forth herein. This permit is issued in accordance with the Federal Clean Air Act and the provisions of the Mississippi Air and Water Pollution Control Law (Section 49-17-1 et. seq., Mississippi Code of 1972), the regulations and standards adopted and promulgated thereunder, and the State Implementation Plan for operating permits for synthetic minor sources.

MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD

AUTHORIZED SIGNATURE
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

Issued: XXXXX Permit No.: 2980-00003

Effective Date: As specified herein.

Expires: [No more than 5 years from the issue date.]

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Section 1.

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. This permit is a Federally-approved permit to operate a synthetic minor source as described in 11 Miss. Admin. Code Pt. 2, R. 2.4.D. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.4.D.)
- 3. Any activities not identified in the application are not authorized by this permit. (Ref.: Miss. Code Ann. 49-17-29 1.b)
- 4. 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 constructing or operating without a valid permit. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(5).)
- 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 this 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 issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(15)(c).)
- 8. The permittee shall allow the Mississippi Department of Environmental Quality Office of Pollution Control and the Mississippi Environmental Quality Permit Board and/or their authorized representatives, upon the 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 emission.

(Ref.: Miss. Code Ann. 49-17-21)

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9. 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)

- 10. Nothing herein contained shall be construed as releasing the permittee from any liability for damage to persons or property by reason of the installation, maintenance, or operation of the air cleaning facility, or from compliance with the applicable statutes of the State, or with local laws, regulations, or ordinances. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(7).)
- 11. The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstances, is challenged or held invalid, the validity of the remaining permit provisions and/or portions thereof or their application to other persons or sets of circumstances, shall not be affected thereby. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.1.D(7).)
- 12. This permit does not authorize a modification as defined in Regulation 11 Miss. Admin. Code Pt. 2, Ch.2., "Permit Regulations for the Construction and/or Operation of Air Emission Equipment." A modification may require a Permit to Construct and a modification of this permit. Modification is defined as "Any physical change in or change in the method of operation of a facility which increases the actual emissions or the potential uncontrolled emissions of any air pollutant subject to regulation under the Federal Act emitted into the atmosphere by that facility or which results in the emission of any air pollutant subject to regulation under the Federal Act into the atmosphere not previously emitted. A physical change or change in the method of operation shall not include:
 - a. Routine maintenance, repair, and replacement;
 - b. Use of an alternative fuel or raw material by reason of an order under Sections 2(a) and (b) of the Federal Energy Supply and Environmental Coordination Act of 1974 (or any superseding legislation) or by reason of a natural gas curtailment plan pursuant to the Federal Power Act;
 - c. Use of an alternative fuel by reason of an order or rule under Section 125 of the Federal Act;
 - d. Use of an alternative fuel or raw material by a stationary source which:
 - (1) The source was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 51.166; or
 - (2) The source is approved to use under any permit issued under 40 CFR 52.21 or under regulations approved pursuant to 40CFR 51.66;

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e. An increase in the hours of operation or in the production rate unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Subpart I or 40 CFR 51.166; or

f. Any change in ownership of the stationary source.

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

B. GENERAL OPERATIONAL CONDITIONS

- 1. Should the Executive Director of the Mississippi Department of Environmental Quality declare an Air Pollution Emergency Episode, the permittee will be required to operate in accordance with the permittee's previously approved Emissions Reduction Schedule or, in the absence of an approved schedule, with the appropriate requirements specified in Regulation, 11 Miss. Admin. Code Pt. 2, "Regulations for the Prevention of Air Pollution Emergency Episodes" for the level of emergency declared. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.10.)
- 2. Any diversion from or bypass of collection and control facilities is prohibited, except as provided for in 11 Miss. Admin. Code Pt. 2, R. 1.10., "Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants." (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.10.)
- 3. Solids removed in the course of control of air emissions shall 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 1.a(i and ii))
- 4. Except as otherwise specified herein, the permittee shall be subject to the following provisions with respect to upsets, startups, and shutdowns.

a. Upsets

- (1) For an upset defined in 11 Miss. Admin. Code Pt. 2, R. 1.2., the Commission may pursue an enforcement action for noncompliance with an emission standard or other requirement of an applicable rule, regulation, or permit. In determining whether to pursue enforcement action, and/or the appropriate enforcement action to take, the Commission may consider whether the source has demonstrated through properly signed contemporaneous operating logs or other relevant evidence the following:
 - (i) An upset occurred and that the source can identify the cause(s) of the upset;
 - (ii) The source was at the time being properly operated;

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- (iii) During the upset the source took all reasonable steps to minimize levels of emissions that exceeded the emission standard or other requirement of an applicable rule, regulation, or permit;
- (iv) That within 5 working days of the time the upset began, the source submitted a written report to the Department describing the upset, the steps taken to mitigate excess emissions or any other noncompliance, and the corrective actions taken and;
- (v) That as soon as practicable but no later than 24 hours of becoming aware of an upset that caused an immediate adverse impact to human health or the environment beyond the source boundary or caused a general nuisance to the public, the source provided notification to the Department.
- (2) In any enforcement proceeding by the Commission, the source seeking to establish the occurrence of an upset has the burden of proof.
- (3) This provision is in addition to any upset provision contained in any applicable requirement.
- (4) These upset provisions apply only to enforcement actions by the Commission and are not intended to prohibit EPA or third party enforcement actions.
- b. Startups and Shutdowns (as defined by 11 Miss. Admin. Code Pt. 2, R. 1.2.)
 - (1) Startups and shutdowns are part of normal source operation. Emission limitations apply during startups and shutdowns unless source specific emission limitations or work practice standards for startups and shutdowns are defined by an applicable rule, regulation, or permit.
 - (2) Where the source is unable to comply with existing emission limitations established under the State Implementation Plan (SIP) and defined in this regulation, 11 Mississippi Administrative Code, Part 2, Chapter 1, the Department will consider establishing source specific emission limitations or work practice standards for startups and shutdowns. Source specific emission limitations or work practice standards established for startups and shutdowns are subject to the requirements prescribed in 11 Miss. Admin. Code Pt. 2, R. 1.10.B(2)(a) through (e).
 - (3) Where an upset as defined in Rule 1.2 occurs during startup or shutdown, see the upset requirements above.

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

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- 5. 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), and (6).)

C. PERMIT RENEWAL / MODIFICATION / TRANSFER / TERMINATION

- 1. For renewal of this permit, the applicant shall make application not less than one-hundred eighty (180) days prior to the expiration date of the permit substantiated with current emissions data, test results or reports or other data as deemed necessary by the Mississippi Environmental Quality Permit Board. If the applicant submits a timely and complete application pursuant to this paragraph and the Permit Board, through no fault of the applicant, fails to act on the application on or before the expiration date of the existing permit, the applicant shall continue to operate the stationary source under the terms and conditions of the expired permit, which shall remain in effect until final action on the application is taken by the Permit Board. Permit expiration terminates the source's ability to operate unless a timely and complete renewal application has been submitted. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.8.)
- 2. 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).)
- 3. 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

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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).)

- 4. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to:
 - a. Persistent violation of any 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.)

5. This permit may only be transferred upon approval of the Mississippi Environmental Quality Permit Board. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.16.B.)

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SECTION 2 EMISSION POINT DESCRIPTION

The permittee is authorized to operate air emissions equipment, as described in the following table.

Emission Point	Description				
AA-000	Taylor Machine Works Plant 1 (650 North Church Avenue)				
AA-100	Facility-Wide Process Heating Operations – includes, but is not limited to, metal preparation heaters, melt heaters, combustion emissions from curing ovens, etc.				
AA-200	Facility-Wide Metal Cutting Operations – includes, but is not limited to, oxy-fuel and plasma torches used for shape cutting various pieces of metal to the proper specification				
AA-300	Facility-Wide Abrasive Blasting Operations – includes, but is not limited to, sand blasting, wheelabrating, etc.				
AA-400	Facility-Wide Metal Working Operations – includes, but is not limited to, metal punching, pressing, drilling, grinding, sawing, etc.				
AA-500	Facility-Wide Welding Operations – includes, but is not limited to, gas metal arc welding (GMAW), shielded metal arc welding (SMAW), submerged arc welding (SAW), flex core arc welding (FCAW), soldering, etc.				
AA-600	Facility-Wide Surface Coating Operations – includes, but is not limited to, spray painting and printing; the application of aerosolized lubricants, adhesives, and preservatives; and other VOC emitting activities including greasing, equipment and part washing, VOC emissions from curing ovens, etc.				
AA-700	Facility-Wide Tank Storage – includes, but is not limited to, solvent tanks, antifreeze tanks, engine oil tanks, hydraulic fluid tanks, fuel storage tanks, etc.				
AA-800	Emergency Generators				
AA-801	167 HP (125 kW) diesel-fired emergency generator				
AA-802	268 HP (200 kW) diesel-fired emergency generator				
AA-900	Miscellaneous Combustion Emission Sources – includes, but is not limited to, space heating equipment, and any other external combustion not otherwise categorized				
AB-000	Taylor Machine Works Plant 2 (107 Thompson Street; formerly Permit No. 2980-00017)				
AB-100	Facility-Wide Process Heating Operations – includes, but is not limited to, metal preparation heaters, melt heaters, combustion emissions from curing ovens, etc.				
AB-200	Facility-Wide Metal Cutting Operations – includes, but is not limited to, oxy-fuel and plasma torches used for shape cutting various pieces of metal to the proper specification				
AB-300	Facility-Wide Abrasive Blasting Operations – includes, but is not limited to, sand blasting, wheelabrating, etc.				
AB-400	Facility-Wide Metal Working Operations – includes, but is not limited to, metal punching, pressing, drilling, grinding, sawing, etc.				

Emission Point	Description			
AB-500	Facility-Wide Welding Operations – includes, but is not limited to, gas metal arc welding (GMAW), shielded metal arc welding (SMAW), submerged arc welding (SAW), flex core arc welding (FCAW), soldering, etc.			
AB-600	Facility-Wide Surface Coating Operations – includes, but is not limited to, spray painting and printing; the application of aerosolized lubricants, adhesives, and preservatives; and other VOC emitting activities including greasing, equipment and part washing, VOC emissions from curing ovens, etc.			
AB-700	Facility-Wide Tank Storage – includes, but is not limited to, solvent tanks, antifreeze tanks, engine oil tanks, hydraulic fluid tanks, fuel storage tanks, etc.			
AB-800	Miscellaneous Combustion Emission Sources – includes, but is not limited to, space heating equipment, and any other external combustion not otherwise categorized			
AC-000	Taylor Machine Works Plant 3 (205 Giffin Industrial Drive; formerly Permit No. 2980-00023)			
AC-100	Facility-Wide Process Heating Operations – includes, but is not limited to, metal preparation heaters, melt heaters, combustion emissions from curing ovens, etc.			
AC-200	Facility-Wide Metal Cutting Operations – includes, but is not limited to, oxy-fuel and plasma torches used for shape cutting various pieces of metal to the proper specification			
AC-300	Facility-Wide Metal Working Operations – includes, but is not limited to, metal punching, pressing, drilling, grinding, sawing, etc.			
AC-400	Facility-Wide Welding Operations – includes, but is not limited to, gas metal arc welding (GMAW), shielded metal arc welding (SMAW), submerged arc welding (SAW), flex core arc welding (FCAW), soldering, etc.			
AC-500	Facility-Wide Surface Coating Operations – includes, but is not limited to, spray painting and printing; the application of aerosolized lubricants, adhesives, and preservatives; and other VOC emitting activities including greasing, equipment and part washing, VOC emissions from curing ovens, etc.			
AC-600	Facility-Wide Tank Storage – includes, but is not limited to, solvent tanks, antifreeze tanks, engine oil tanks, hydraulic fluid tanks, fuel storage tanks, etc.			
AC-700	Miscellaneous Combustion Emission Sources – includes, but is not limited to, space heating equipment, and any other external combustion not otherwise categorized			

SECTION 3 EMISSION LIMITATIONS AND STANDARDS

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limitation/Standard
	11 Miss. Admin. Code Pt. 2, R. 1.3.A.	3.1	Opacity	40% facility-wide opacity limitations
	11 Miss. Admin. Code Pt. 2, R. 1.3.B.	3.2		
	11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).	3.3	PM/PM ₁₀ (filterable only)	0.6 pounds per MMBTU per hour
AA-000	11 Miss. Admin. Code Pt. 2, R. 1.3.F(1).	3.4		$E = 4.1 * p^{0.67}$
AB-000 AC-000		3.5	PM/PM ₁₀ /PM _{2.5}	
		3.6	NO _X	00.0
	11 Miss. Admin. Code Pt. 2, R.	3.7	СО	99.0 tpy
	2.2.B(10).	3.8	VOC	
		3.9	НАР	9.0 tpy for any individual HAP 24.0 tpy for all combined HAPs
AA-801 AA-802	40 CFR Part 63, Subpart ZZZZ (§63.6585(a & c), 63.6590(a)(2)(ii), and 63.6590(c)(1)) 40 CFR Part 60, Subpart IIII (§60.4200(a)(2)(i))	3.10	Exhaust Emissions	Applicability Demonstration of compliance with Part 63, Subpart ZZZZ by compliance with the specified requirements of Part 60, Subpart IIII
AA-801	40 CFR Part 60, Subpart IIII (§60.4205(b), 60.4202(a)(2), 89.112(a))	3.11	NMHC+NO _X CO PM	 4.0 g/kW-hr 5.0 g/kW-hr 0.30 g/kW-hr
AA-802		3.12	NMHC+NO _X CO PM	 4.0 g/kW-hr 3.5 g/kW-hr 0.20 g/kW-hr
AA-801 AA-802	40 CFR Part 60, Subpart IIII (§60.4205(b), 60.4202(a)(2), 89.113(a))	3.13	Opacity	 20% during acceleration mode 15% during lugging mode 50% during the peaks in either acceleration or lugging modes
	40 CFR 60, Subpart IIII (§60.4207(b) and 80.510(c)(1-2))	3.14	Fuel Requirements	Sulfur content of 15 ppm max., AND Minimum cetane index of 40, OR Maximum aromatic content of 35 volume percent
	40 CFR 60, Subpart IIII (§60.4209(a))	3.15	Hours of Operation	Install a non-resettable hour meter prior to start-up

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limitation/Standard
AA-801 AA-802	40 CFR 60, Subpart IIII (§40 CFR 60.4211(a)(1-3), (c), and (f)(1-3))	3.16	Exhaust Emissions	Emergency engine definition

- 3.1 Except as otherwise specified or limited herein, the permittee shall not cause, permit, or allow the emission of smoke from a point source into the open air from any manufacturing, industrial, commercial or waste disposal process which exceeds forty (40) percent opacity. Startup operations may produce emissions which exceed 40% opacity for up to fifteen (15) minutes per startup in any one hour and not to exceed three (3) startups per stack in any twenty-four (24) hour period. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.A.)
- 3.2 Except as otherwise specified or limited herein, the permittee shall not cause, allow, or permit the discharge into the ambient air from any point source or emissions, any air contaminant of such opacity as to obscure an observer's view to a degree in excess of 40% opacity, equivalent to that provided in Condition 3.1. This shall not apply to vision obscuration caused by uncombined water droplets. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.B.)
- 3.3 For all three facilities, the maximum permissible emissions of ash and/or particulate matter from fossil fuel burning installations of less than 10 MMBTU per hour heat input shall not exceed 0.6 pounds per MMBTU per hour heat input. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.D(1)(a).)
- 3.4 For all three facilities, the permittee shall not cause permit, or allow the emission of particulate matter in total quantities in any one hour from any manufacturing process, which includes any associated stacks, vents, outlets, or combination thereof, to exceed the amount determined by the following relationship:

$$E = 4.1*p^{0.67}$$

Where "E" is the emission rate in pounds per hour and "p" is the process weight input rate in tons per hour. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 1.3.F(1).)

- 3.5 For Emission Points AA-000, AB-000, and AC-000, the permittee shall limit the combined emissions of Particulate Matter (PM), Particulate Matter with a diameter of 10 microns (PM₁₀), and Particulate Matter with a diameter of 2.5 microns (PM_{2.5}) from all three facilities to no more than 99.0 tons per year for each consecutive 12-month period on a rolling basis. (Ref.: 11 Miss. Admin. Code, Pt. 2, R. 2.2.B(10).)
- 3.6 For Emission Points AA-000, AB-000, and AC-000, the permittee shall limit the combined emissions of Nitrogen Oxides (NO_X) from all three facilities to no more than 99.0 tons per year for each consecutive 12-month period on a rolling basis. (Ref.: 11 Miss. Admin. Code, Pt. 2, R. 2.2.B(10).)
- 3.7 For Emission Points AA-000, AB-000, and AC-000, the permittee shall limit the combined emissions of Carbon Monoxide (CO) from all three facilities to no more than 99.0 tons per year for each consecutive 12-month period on a rolling basis. (Ref.: 11 Miss. Admin. Code, Pt. 2, R. 2.2.B(10).)

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- 3.8 For Emission Points AA-000, AB-000, and AC-000, the permittee shall limit the combined emissions of Volatile Organic Compounds (VOC) from all three facilities to no more than 99.0 tons per year for each consecutive 12-month period on a rolling basis. (Ref.: 11 Miss. Admin. Code, Pt. 2, R. 2.2.B(10).)
- 3.9 For Emission Points AA-000, AB-000, and AC-000, the permittee shall limit the combined emissions of any individual Hazardous Air Pollutant (HAP) from all three facilities to no more than 9.0 tons per year for each consecutive 12-month period on a rolling basis. Furthermore, the permittee shall limit the combined emissions of all combined HAPs from all three facilities to no more than 24.0 tons per year for each consecutive 12-month period on a rolling basis. (Ref.: 11 Miss. Admin. Code, Pt. 2, R. 2.2.B(10).)
- 3.10 Emission Points AA-801 and AA-802 are stationary reciprocating internal combustion engines (RICE) which are located at an area source of HAP emissions. As such, these engines are subject to and shall comply with all applicable requirements of 40 CFR Part 63, Subpart ZZZZ National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.
 - Emission Points AA-801 and AA-802 are stationary, diesel-fired compression ignition emergency RICE located at an area source of HAP emissions which were constructed after June 12, 2006. As such, these engines are considered to be new stationary RICE and shall demonstrate compliance with the requirements of Subpart ZZZZ by complying with the applicable requirements of 40 CFR Part 60, Subpart IIII Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. (Ref.: 40 CFR 63.6585(a & c), 63.6590(a)(2)(ii), 63.6590(c)(1), and 60.4200(a)(2)(ii))
- 3.11 For Emission Point AA-801, the permittee shall limit the emissions of Non-Methane Hydrocarbons and Nitrogen Oxides (NMHC+NO_X) to no more than 4.0 grams per kilowatt-hour (g/kW-hr); the emissions of CO to no more than 5.0 g/kW-hr; and the emissions of PM to no more than 0.30 g/kW-hr. (Ref.: 40 CFR 60.4205(b), 60.4202(a)(2), and 89.112(a))
- 3.12 For Emission Point AA-802, the permittee shall limit the emissions of Non-Methane Hydrocarbons and Nitrogen Oxides (NMHC+NO_X) to no more than 4.0 grams per kilowatt-hour (g/kW-hr); the emissions of CO to no more than 3.5 g/kW-hr; and the emissions of PM to no more than 0.20 g/kW-hr. (Ref.: 40 CFR 60.4205(b), 60.4202(a)(2), and 89.112(a))
- 3.13 For Emission Points AA-801 and AA-802, the permittee shall limit the exhaust opacity from each engine to no more than 20 percent during the acceleration mode; 15 percent during the lugging mode; and 50 percent during the peaks in the acceleration or lugging modes. (Ref.: 40 CFR 60.4205(b), 60.4202(a)(2), and 89.113(a))
- 3.14 For Emission Points AA-801 and AA-802, the permittee shall use diesel fuel that meets the following requirements:

(a) Sulfur content

(1) 15 ppm maximum for non-road diesel fuel

(b) Cetane index or aromatic content

- (1) A minimum cetane index of 40; or
- (2) A maximum aromatic content of 35 volume percent.

(Ref.: 40 CFR 60.4207(b) and 40 CFR 80.510(c)(1-2))

- 3.15 For Emission Points AA-801 and AA-802, in order to demonstrate compliance with Condition 3.16, the permittee shall install non-resettable hour meters prior to the start-up of each affected engine. (Ref.: 40 CFR 60.4209(a))
- 3.16 For Emission Points AA-801 and AA-802, in order to demonstrate compliance with the emission standards required by Conditions 3.11, 3.12, and 3.13, the permittee shall install, operate, and maintain the engines according to the manufacturer's emission related written instructions, may change only those emissions related settings that are permitted by the manufacturer, and the engines must be certified to meet the emissions limitations contained in Condition 3.11, 3.12, and 3.13.

The permittee shall operate the emergency engines in accordance with (a) through (c) below so that the engines may continue to be considered "emergency engines". Any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year as described in (a) through (c) below is prohibited.

- (a) There is no time limit on the use of the engines in emergency situations.
- (b) The engines may each be operated for a maximum of 100 hours per calendar year for maintenance checks and readiness testing, provided the tests are recommended by federal, state, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engines. The permittee may petition the MDEQ for approval of additional hours to be used for maintenance checks and readiness testing, but such a petition is not required if the permittee keeps records indicating that federal, state, or local standards require maintenance and testing of the engines for more than 100 hours per calendar year.
- (c) The engines may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing contained in (b). The 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electrical grid or otherwise supply power as part of a financial agreement with another entity. If the source does have a financial agreement with another entity, the 50 hours of non-emergency operation may be used as long as ALL the conditions in 40 CFR 60.4211(f)(3)(i)(A through E) are met.

If the affected engines do not operate in accordance with the requirements in (a) through (c) above, then the engines will not be considered emergency engines and must meet all requirements for non-emergency engines.

(Ref.: 40 CFR 60.4211(a)(1-3), (c), and (f)(1-3))

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SECTION 4 WORK PRACTICES

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Work Practice	
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SECTION 5 MONITORING AND RECORDKEEPING REQUIREMENTS

Emission Point	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Monitoring/Recordkeeping Requirement
AA-000 AB-000 AC-000	11 Miss. Admin. Code Pt. 2, R. 2.9.	5.1	Recordkeeping	Maintain records for a minimum of 5 years.
	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	5.2	Opacity	Visible emissions monitoring and recordkeeping
		5.3	PM	PM monthly recordkeeping
		5.4	VOC HAP	VOC/HAP content determination
		5.5		VOC/HAP material monthly recordkeeping
		5.6	NO _X CO	Fuel usage recordkeeping
AA-801 AA-802	40 CFR 60, Subpart IIII (§40 CFR 60.4214(b))	5.7	Hours of Operation	Record the number of hours of operation for each affected engine

- 5.1 The permittee shall retain all required records, monitoring data, supporting information and reports for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, all original strip-chart recordings or other data for continuous monitoring instrumentation, and copies of all reports required by this permit. Copies of such records shall be submitted to MDEQ as required by Applicable Rules and Regulations or this permit upon request. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.9.)
- 5.2 For Emission Points AA-000, AB-000, and AC-000, in order to demonstrate compliance with Conditions 3.1 and 3.2, the permittee shall perform monthly visible emissions observations at any time in which operations are occurring. If any visible emissions are detected from the exhaust stacks at any time during a six (6) minute observation period, the permittee shall perform a follow-up observation using EPA Reference Method 9. The permittee shall maintain records documenting the date and time when the visible emission observations occurred, the nature and cause of any visible emissions, and any corrective action(s) taken to prevent or minimize the visible emissions. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).)
- 5.3 For Emission Points AA-000, AB-000, and AC-000, in order to demonstrate compliance with the emission limitations specified in Condition 3.5, the permittee shall keep monthly records of the following information:
 - (a) The amount of abrasive blasting media consumed on a monthly basis and for each consecutive 12-month period on a rolling basis
 - (b) The amount of welding electrodes and/or medium consumed on a monthly basis and for each consecutive 12-month period

(c) The total PM, PM₁₀, and PM_{2.5} emission rates, in tons per year, for each consecutive 12-month period on a rolling basis

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

- 5.4 For Emission Points AA-000, AB-000, and AC-000, in order to demonstrate compliance with Conditions 3.8 and 3.9, the permittee shall determine the following information for each coating, adhesive, solvent or other VOC or HAP containing material used:
 - (a) The quantity used (gallons)
 - (b) The percentage of VOCs by weight
 - (c) The percentage of individual and total HAPs by weight
 - (d) The density (lbs/gal)

The permittee may utilize data supplied by the manufacturer, or the permittee may perform an analysis of VOC and HAP content according to EPA Test Method 24, 40 CFR Part 60, Appendix A and/or EPA Test Method 311, 40 CFR Part 63, Appendix A or an alternative test method approved by the MDEQ. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).)

- 5.5 For Emission Points AA-000, AB-000, and AC-000, in order to demonstrate compliance with Conditions 3.8 and 3.9, the permittee shall keep monthly records of the following information:
 - (a) The identification of each coating, adhesive, solvent, or other VOC/HAP containing material
 - (b) The total gallons of each coating, adhesive, solvent or other VOC/HAP containing material used on a monthly basis and for each consecutive 12-month period on a rolling basis.
 - (c) The VOC/HAP content(s) of each coating, adhesive, solvent or other VOC/HAP containing material used. A description of the method used to determine the VOC and HAP content shall accompany this data.
 - (d) The density, in pounds per gallon, of each coating, adhesive, solvent or other VOC/HAP containing material used
 - (e) The total VOC emission rate, in tons per year, for each consecutive 12-month period on a rolling basis
 - (f) The emission rate, in tons per year, for each individual HAP and for all combined HAPs for each consecutive 12-month period on a rolling basis.

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

- 5.6 For Emission Points AA-000, AB-000, and AC-000, in order to demonstrate compliance with Conditions 3.6 and 3.7, the permittee shall maintain monthly records of the amount of fuel used (including but not limited to: natural gas, gasoline, diesel, methane gas, acetylene, etc.) on a monthly basis and for each consecutive 12-month period on a rolling basis. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).)
- 5.7 For Emission Points AA-801 and AA-802, the permittee shall keep records of the hours of operation of each engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The permittee shall record the time and reason that each engine is being operated. (Ref.: 40 CFR 60.4214(b))

SECTION 6 REPORTING REQUIREMENTS

Emission Point	Applicable Requirement	Condition Number(s)	Reporting Requirement
AA-000 AB-000 AC-000	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.1	Report permit deviations within five (5) working days.
		6.2	Submit certified annual monitoring report.
		6.3	All documents submitted to MDEQ shall be certified by a Responsible Official.
AA-801 AA-802 AA-803	11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).	6.4	Reporting of changes in the status of affected engines

- 6.1 Except as otherwise specified herein, the permittee shall report all deviations from permit requirements, including those attributable to upsets, the probable cause of such deviations, and any corrective actions or preventive measures taken. Said report shall be made within five (5) working days of the time the deviation began. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).)
- 6.2 Except as otherwise specified herein, the permittee shall submit a certified annual synthetic minor monitoring report postmarked no later than 31st of January for the preceding calendar year. This report shall address any required monitoring specified in the permit. Specifically, this report shall include a summary of the recordkeeping requirements outlined in Conditions 5.2, 5.3, 5.4, 5.5, and 5.6. All instances of deviations from permit requirements must be clearly identified in the report. Where no monitoring data is required to be reported and/or there are no deviations to report, the report shall contain the appropriate negative declaration. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).)
- Any document required by this permit to be submitted to the MDEQ shall contain a certification signed by a responsible official stating that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).)
- 6.4 For Emission Points AA-801 and AA-802, if any of the affected engines begin to operate as a non-emergency engine, as defined in Condition 3.16, the permittee shall submit a new application for a modification to this operating permit within sixty (60) days of the change in operating status. (Ref.: 11 Miss. Admin. Code Pt. 2, R. 2.2.B(11).)