



State of Mississippi

AIR POLLUTION CONTROL PERMIT



Permit To Construct Air Emissions Equipment

THIS CERTIFIES

Norbord Industries Inc

1194 Highway 145

Guntown, MS

Lee County

has been granted permission to construct air emissions equipment to comply with the 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.

Mississippi Environmental Quality Permit Board

Mississippi Department of Environmental Quality

Issued/Modified: JUL 30 2015

Expires:

Permit No. 1540-00058

Agency Interest # 952

Table of Contents

Subject Item Inventory.....i

Facility Requirements.....1

General Information.....A-1

Other Relevant Documents:

Permit To Construct Air Emissions Equipment

Norbord Industries Inc
Subject Item Inventory
Permit Number:1540-00058
Activity ID No.: PER20150002

Subject Item Inventory:

ID	Designation	Description
AI952		
EQPT12	AA-015	SuperScreen with a baghouse

KEY

ACT = Activity

AREA = Area

CONT = Control Device

IA = Insignificant Activity

MAFO = Animal Feeding Operation

RPNT = Release Point

WDPT = Withdrawal Point

AI = Agency Interest

CAFO = Concentrated Animal Feeding Operation

EQPT = Equipment

IMPD = Impoundment

PCS = PCS

TRMT = Treatment

Permit To Construct Air Emissions Equipment

Norbord Industries Inc
Facility Requirements
Permit Number:1540-00058
Activity ID No.: PER20150002

Page 1 of 7

AI0000000952:

Submittal/Action Requirements:

Condition No.	Condition
S-1	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. [11 Miss. Admin.Code Pt. 2, R.2.5.C(4).]
S-2	Within fifteen (15) days of beginning actual construction, the permittee must notify DEQ in writing that construction has begun. [11 Miss. Admin.Code Pt. 2, R.2.5.C(2).]
S-3	General Condition: The permittee shall submit certification of construction: Due within thirty (30) days of completion of construction or installation of an approved stationary source or prior to startup, whichever is earlier. The notification shall certify that construction or installation was performed in accordance with the approved plans and specifications. In the event there is any change in construction from the previously approved plans and specifications or permit, the permittee shall promptly notify MDEQ in writing. If MDEQ determines the changes are substantial, MDEQ 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. [11 Miss. Admin. Code Pt. 2, R. 2.5.D.]

Narrative Requirements:

General Condition:

Condition No.	Condition
T-1	General Condition: 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. [Miss. Code Ann. 49_17_39]
T-2	General Condition: After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for good cause shown including, but not limited to, the following: 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 any condition that requires either a temporary or permanent reduction or elimination of previously authorized air emissions. [11 Miss. Admin.Code Pt. 2, R.2.2.C.]

Permit To Construct Air Emissions Equipment

Norbord Industries Inc
Facility Requirements
Permit Number:1540-00058
Activity ID No.: PER20150002

Page 2 of 7

AI0000000952 (continued):

Narrative Requirements:

General Condition:

Condition No.	Condition
T-3	General Condition: The permittee shall allow the Mississippi Environmental Quality Commission, the Mississippi Environmental Quality Permit Board, MDEQ staff 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. [Miss. Code Ann. 49_17_21]
T-4	General Condition: 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 Regulation 11 Miss. Admin. Code Pt.2, R. 1.10 "Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants", Section 10. [11 Miss. Admin. Code Pt. 2, R. 1.10]
T-5	General Condition: 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. [Miss. Code Ann. 49_17_29]
T-6	General Condition: Any activities not identified in the application are not authorized by this permit. [Miss. Code Ann. 49_17_29 1.b]
T-7	General Condition: The stationary source shall be designed and constructed so as to operate without causing a violation of any Applicable Rules and Regulations or this permit, 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. [11 Miss. Admin.Code Pt. 2, R.2.5.A.]
Condition No.	Condition
T-8	General Condition: 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. [11 Miss. Admin.Code Pt. 2, R.2.5.A(4).]

Permit To Construct Air Emissions Equipment

Norbord Industries Inc
Facility Requirements
Permit Number:1540-00058
Activity ID No.: PER20150002

Page 3 of 7

AI0000000952 (continued):

Narrative Requirements:

Condition No.	Condition
T-9	<p>General Condition: Regarding compliance testing:</p> <p>(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.</p> <p>(b) Compliance testing will be performed at the expense of the permittee.</p> <p>(c) Each emission sampling and analysis report shall include but not be limited to the following:</p> <ol style="list-style-type: none">1. detailed description of testing procedures;2. sample calculation(s);3. results; and4. comparison of results to all Applicable Rules and Regulations and to emission limitations in the permit. [11 Miss. Admin.Code Pt. 2, R.2.6.B(3),(4)&(6).]
T-10	<p>General Condition: 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. [11 Miss. Admin.Code Pt. 2, R.2.5.D(7).]</p>
T-11	<p>General Condition: Except as otherwise specified in 11 Miss. Admin. Code Pt. 2, R. 2.5.D(7), 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. [11 Miss. Admin. Code Pt. 2, R. 2.5.D(6).]</p>
T-12	<p>General Condition: Except as otherwise specified in 11 Miss. Admin. Code Pt. 2, R. 2.5.D(7), 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. [11 Miss. Admin. Code Pt. 2, R. 2.5.D(5).]</p>
T-13	<p>General Condition: Except as prohibited in 11 Miss. Admin. Code Pt. 2, R. 2.5.D(7) 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 APC-S-2, Section XIII.G. [11 Miss. Admin. Code Pt. 2, R. 2.5.D(4).]</p>

Permit To Construct Air Emissions Equipment

Norbord Industries Inc
Facility Requirements
Permit Number:1540-00058
Activity ID No.: PER20150002

Page 4 of 7

AI0000000952 (continued):

Narrative Requirements:

Condition No.	Condition
T-14	General Condition: A new stationary source issued a Permit to Construct cannot begin operation until certification of construction by the permittee. [11 Miss. Admin.Code Pt. 2, R.2.5.D(3).]
T-15	General Condition: 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. [11 Miss. Admin.Code Pt. 2, R.2.5.C(1).]
T-16	General Condition: 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. [11 Miss. Admin.Code Pt. 2, R.1.1.D(7).]
T-17	General Condition: This permit shall not be transferred except upon approval of the Permit Board. [11 Miss. Admin.Code Pt. 2, R.2.16.B.]
T-18	General Condition: 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. [11 Miss. Admin.Code Pt. 2, R.2.2.B(15)(d).]
T-19	General Condition: The permit does not convey any property rights of any sort, or any exclusive privilege. [11 Miss. Admin.Code Pt. 2, R.2.2.B(15)(c).]
T-20	General Condition: 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. [11 Miss. Admin.Code Pt. 2, R.2.2.B(15)(b).]
T-21	General Condition: 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. [11 Miss. Admin.Code Pt. 2, R.2.2.B(15)(a).]
T-22	General Condition: 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. [11 Miss. Admin.Code Pt. 2, R.2.1.D(7).]

Permit To Construct Air Emissions Equipment

Norbord Industries Inc
Facility Requirements
Permit Number:1540-00058
Activity ID No.: PER20150002

Page 5 of 7

AI0000000952 (continued):

Narrative Requirements:

Condition No.	Condition
T-23	General Condition: 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. [11 Miss. Admin.Code Pt. 2, R.2.1.D(6).]
T-24	General Condition: 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. [11 Miss. Admin.Code Pt. 2, R.2.2.B(5).]
T-25	General Condition:This permit is for air pollution control purposes only. [11 Miss. Admin.Code Pt. 2, R.2.1.D.]

Permit To Construct Air Emissions Equipment

Norbord Industries Inc
Facility Requirements
Permit Number:1540-00058
Activity ID No.: PER20150002

Page 6 of 7

EQPT0000000012 (AA-015) SuperScreen with a baghouse:

Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Particulate Matter	Particulate Matter: For Emission Points AA-015, the permittee shall not cause, permit or allow the emission of particulate matter in total quantities in any one hour from the emission point to exceed the amount determined by the relationship: $E = 4.1(P^{0.67})$ Where: E is the emission rate in pounds per hour P is the process weight input rate in tons per hour Where E is determined by EPA Test Methods 1-5, 40 CFR 60, Appendix A. [11 Miss. Admin. Code Pt. 2, Ch. 1. R.1.3.F(1)]
L-2	Opacity	Opacity: For Emission Point AA-015, the permittee shall not cause, allow or permit the discharge into the ambient air of such opacity as to obscure an observer's view to a degree in excess of 40% opacity, equivalent to that provided in 11 Miss. Admin. Code Pt.2,R.1.3.A. This shall not apply to vision obscuration caused by uncombined water droplets. [11 Miss. Admin. Code Pt. 2, Ch. 1. R.1.3.(B)]

Monitoring Requirements:

Condition No.	Parameter	Condition
M-1	Opacity	Opacity: For Emission Point AA-015, the facility must conduct weekly observations for visible emissions. If any visible emissions are observed during a one minute observation, then the permittee shall conduct a minimum of one six-minute observation in accordance with EPA Reference Method 9. Upon observation of visible emissions in excess of the applicable opacity standard, the frequency of observation for that emission point shall become daily until no visible emissions in excess of the applicable opacity standard are observed for seven consecutive days. After seven consecutive days of no visible emission observations, the inspection frequency may be reduced to weekly. If no visible emissions are observed after three consecutive months of weekly observations, the frequency may be reduced to monthly. However, if emissions are observed during a monthly inspection, the frequency of inspection shall revert to the daily schedule as specified above. The permittee shall maintain a record and/or log documenting all visual observations/test, the nature and cause of any visible emissions, any corrective action(s) taken to prevent or minimize the emissions, and the date and time when visible emission observations were conducted. [11 Miss. Admin. Code Pt. 2, Ch. 6. R.6.3.A(3)(a)(2)]

Permit To Construct Air Emissions Equipment

Norbord Industries Inc
Facility Requirements
Permit Number:1540-00058
Activity ID No.: PER20150002

Page 7 of 7

EQPT0000000012 (continued):

Monitoring Requirements:

Condition No.	Parameter	Condition
M-2		For Emission Point AA-015, the permittee shall perform monthly inspections of the air pollution control equipment. Maintenance shall be performed as necessary to maintain proper operation of the pollution control equipment. In the event of a failure of the air pollution control equipment, the permittee shall cease operations until such time as repairs are made and the proper efficiency of the air pollution control equipment is restored. Records of monthly inspections and any maintenance work shall be kept in log form and must be made available for review upon request during any inspection visit by MDEQ personnel. The permittee shall maintain these records for at least five (5) years following the date of such record. [11 Miss. Admin. Code Pt. 2, Ch. 2. R.2.2.B(10)]

Narrative Requirements:

Condition No.	Condition
T-1	Beginning upon permit issuance, the permittee is authorized to construct or modify air emissions equipment for the emission of air contaminants from Emission point AA-015, the SuperScreen equipped with a baghouse for air emission control. The air emissions equipment shall be constructed to comply with the emission limitations and monitoring requirements specified herein. [11 Miss. Admin. Code Pt. 2, Ch. 2. R.2.2.B(10)]
T-2	For Emission Point AA-015, the permittee shall keep the pollution control equipment in service at all times while the related production equipment is in operation. [11 Miss. Admin. Code Pt. 2, Ch. 2. R.2.2.B(10)]

GENERAL INFORMATION

Norbord Industries Inc
1194 Highway 145
Guntown, MS
Lee County

Alternate/Historic Identifiers

ID	Alternate/Historic Name	User Group	Start Date	End Date
952	Norbord Industries, Inc.	Official Site Name	9/29/1993	
2808100058	Norbord Industries Inc	Air-AIRS AFS	10/12/2000	
154000058	Norbord Industries, Inc.	Air-Title V Operating	7/22/1999	7/1/2004
154000058	Norbord Industries, Inc.	Air-Construction	10/21/1993	
MSR110145	Norbord Industries, Inc.	GP-Sara Title III	2/28/1996	5/14/1996
MSR001255	Norbord Industries, Inc.	GP-Baseline	5/15/1996	12/13/2000
MSR100231	Norbord Industries, Inc.	GP-Construction	9/29/1993	5/10/2000
MSR001255	Norbord Industries, Inc.	GP-Baseline	12/13/2000	12/14/2005
MSR001255	Norbord Industries, Inc.	GP-Baseline	12/14/2005	1/20/2011
154000058	Norbord Industries, Inc.	Air-Title V Fee Customer	7/22/1999	
154000058	Norbord Mississippi, Inc., a division of Norbord Industries, Inc.	Air-Title V Operating	6/3/2010	5/31/2015
MSR001255	Norbord Industries, Inc.	GP-Baseline	1/20/2011	9/28/2015
154000058	Norbord Industries Inc	Air-Construction	7/30/2015	

Basin: Tombigbee River Basin

Location Description:PG - Plant Entrance (General) Data collected by Dewayne Headrick on 3-6-01. Imported from I-sys