



State of Mississippi



FEDERALLY ENFORCEABLE AIR POLLUTION CONTROL PERMIT

Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

**THIS CERTIFIES**

S and B Industrial Minerals North America, Aberdeen Facility  
10033 IMC Road  
Aberdeen, MS  
Monroe 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. set., 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**

**Mississippi Department of Environmental Quality**

Issued/Modified: APR 12 2016

Expires: MAR 31 2021

Permit No. 1840-00010

Agency Interest # 2083

Table of Contents

Subject Item Inventory.....i

Facility Requirements.....1

General Information.....A-1

Other Relevant Documents:

## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

S and B Industrial Minerals North America, Aberdeen Facility

Subject Item Inventory

Permit Number: 1840-00010

Activity ID No.: PER20150002

### Subject Item Inventory:

ID	Designation	Description
AI2083	2083	
EQPT1	AA-001	45 MMBTUHr gas/oil-fired 60 TPH Stan Steel Concurrent Rotary Dryer equipped with a baghouse (DC-01). Emissions from the 75-ton Roller Mill Surge Bin (BN-02) and Roller Mill feed elevator (BE-02) are also controlled by the baghouse
EQPT2	AA-002	26 TPH, 66 Inch Roller Mill (RL-01) equipped with a baghouse (DC-02)
EQPT3	AA-003	20 TPH, 50 Inch Roller Mill (RL-02) equipped with a baghouse (DC-03)
EQPT19	AA-004	APRBRN Apron Feeder Burner (FE-01), the Apron Feeder Heater, Dryer Surge Bin (BN-01) and Crude Clay Belt Conveyor (BC-03)
EQPT21	AA-005	Product Storage Silo (SI-01) equipped with a baghouse (DC-05) for control of particulate matter emissions
EQPT4	AA-006	Packing/Rail Loadout Bucket Elevator (BE-04) equipped with a baghouse (DC-06). Emissions from Product Storage Bins (SI-01 through SI-04) are also controlled by the baghouse
EQPT20	AA-007	Mill Feed Bucket Elevator (BE-03) equipped with baghouse (DC-07). Emissions from Product Storage Bins (SI-05 through SI-08) are also controlled by the baghouse
EQPT5	AA-008	100 TPH Truck Loading Process and 100 ton storage silo (SI-09) equipped with a baghouse (DC-08)
EQPT6	AA-009	100 TPH Four Spout Saint Regis Packing Machine (BA-01) and 100 ton Packer Surge Bin (BN-03) equipped with a baghouse (DC-09)
EQPT22	AA-009a	12 TPH Bulk Bag Filling Station (BA-02) and Reclaim Hopper (HO-01)
EQPT7	AA-010	100 TPH Railcar Loading Process equipped with a baghouse (DC-10)
EQPT11	AA-011	30' C&D Conveyor (BC-04) equipped with a baghouse (DC-01)
EQPT12	AA-012	125 TPH 48 inch width shredder feed belt conveyor feeding shredder (BC-01)
EQPT13	AA-013	125 TPH Stacker Belt Conveyor (BC-02)
EQPT15	AA-015	15,000 gallon diesel storage tank (TK-01)
EQPT16	AA-016	8,200 gallon diesel storage tank (TK-02)
EQPT17	AA-017	1,500 gallon mobile diesel storage tank (TK-03)
EQPT18	AA-018	560 gallon gasoline storage tank (TK-04)
EQPT23	AA-019	Brazing and Welding Equipment

## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

S and B Industrial Minerals North America, Aberdeen Facility

Subject Item Inventory

Permit Number: 1840-00010

Activity ID No.: PER20150002

ID	Designation	Description
EQPT14	AA-014	100 TPH Gleason Clay Shredder (CR-01)

### Subject Item Groups:

ID	Description	Components
GRPT1	Storage Tanks (TK-01, TK-02, TK-03, TK-04)	EQPT15 15,000 gallon diesel storage tank (TK-01)
		EQPT16 8,200 gallon diesel storage tank (TK-02)
		EQPT17 1,500 gallon mobile diesel storage tank (TK-03)
		EQPT18 560 gallon gasoline storage tank (TK-04)

### Receiving Stream Relationships:

Subject Item	Relationship	Receiving Stream
AI 2083	Discharges Into	Dry Creek

#### **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 Operate Air Emissions Equipment at a Synthetic Minor Source

S and B Industrial Minerals North America, Aberdeen Facility

Facility Requirements

Permit Number:1840-00010

Activity ID No.: PER20150002

Page 1 of 20

**AI0000002083 (2083):**

### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Production	Production: The permittee shall limit facility-wide production of bentonite to 249, 600 tons per year on a twelve month rolling total. [11 Miss. Admin. Code Pt. 2, Ch. 1.]

### Record-Keeping Requirements:

#### **Production:**

Condition No.	Condition
R-1	Production: The permittee shall record the production of bentonite both on a daily basis and on a twelve month rolling total.  The permittee shall maintain a copy of these records on site for at least five (5) years and shall make them available to Office of Pollution Control personnel upon proper request. [11 Miss. Admin. Code Pt. 2, Ch. 1.]

### Submittal/Action Requirements:

Condition No.	Condition
S-1	Except as otherwise specified herein, the permittee shall submit a certified synthetic minor monitoring report: Due semiannually, by the 31st of January and July for preceding six months. This report shall address any required monitoring specified in the permit. [11 Miss. Admin. Code Pt. 2, Ch. 2. II.B(11)]
S-2	The owner or operator of any wet material processing operation that processes saturated and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. At the time of such change, this screening operation, bucket elevator, or belt conveyor becomes subject to the applicable opacity limit in 40 CFR 60.672(b) and the emission test requirements of 40 CFR 60.11. [40 CFR 60.676(g)]

## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

S and B Industrial Minerals North America, Aberdeen Facility

Facility Requirements

Permit Number:1840-00010

Activity ID No.: PER20150002

Page 2 of 20

### AI0000002083 (continued):

#### Narrative Requirements:

Condition No.	Condition
T-1	The permittee shall comply with all emission limitation requirements of the Air Synthetic Minor Operating permit. [Compliance Use]
T-2	The permittee shall comply with all recordkeeping requirements of the Air Synthetic Minor Operating permit. [Compliance Use]
T-3	The permittee shall comply with all reporting requirements of the Air Synthetic Minor Operating permit. [Compliance Use]
T-4	The permittee shall comply with all monitoring requirements of the Air Synthetic Minor Operating permit. [Compliance Use]
T-5	The permittee shall comply with all other requirements of the Air Synthetic Minor permit. [Compliance Use]
T-6	For each baghouse, the permittee shall perform regular inspections and any required maintenance each week or more often if necessary to maintain proper operation of the pollution control equipment.  Records of the date and time of these inspections and any maintenance shall be kept in log form at the facility for a period of five (5) years and made available for review to the Office of Pollution Control personnel upon request. [11 Miss. Admin. Code Pt. 2, Ch. 1.]

## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

S and B Industrial Minerals North America, Aberdeen Facility

Facility Requirements

Permit Number:1840-00010

Activity ID No.: PER20150002

Page 3 of 20

**EQPT0000000001 (AA-001) 45 MMBTUHr gas/oil-fired 60 TPH Stan Steel Concurrent Rotary Dryer equipped with a baghouse (DC-01). Emissions from the 75-ton Roller Mill Surge Bin (BN-02) and Roller Mill feed elevator (BE-02) are also controlled by the baghouse:**

### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Particulate Matter	Particulate Matter: Particulate matter emissions shall not exceed 24.6 lb/hr as determined by EPA Test Methods 1-5, 40 CFR 60, Appendix A. [11 Miss. Admin. Code Pt. 2, Ch. 1.]
L-2	Particulate Matter	Particulate Matter: Particulate matter emissions shall not exceed 51 tons/yr as determined by EPA Test Methods 1-5, 40 CFR 60, Appendix A. [11 Miss. Admin. Code Pt. 2, Ch. 1.]
L-3	Opacity	Opacity: Opacity shall be less than 40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A. [11 Miss. Admin. Code Pt. 2, Ch. 1. 3.1]

### Monitoring Requirements:

Condition No.	Parameter	Condition
M-1		<p>For Emission Point AA-001, the permittee is required to perform stack testing in accordance with EPA Reference Methods 1-5 to demonstrate compliance with the permitted emission limitations for particulate matter. The permittee shall demonstrate compliance with the emission limitations by September 1, 2016, and submit stack test reports within thirty (30) days after the test is completed, and biennially thereafter.</p> <p>A pretest conference at least thirty (30) days prior to the scheduled test date is needed to ensure that all test methods and procedures are acceptable to the Office of Pollution Control. Also, the Office of Pollution Control must be notified prior to the scheduled test date. At least ten (10) days notice should be given so that an observer may be afforded the opportunity to witness the test(s). [11 Miss. Admin. Code Pt. 2, Ch. 1.]</p>

## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

S and B Industrial Minerals North America, Aberdeen Facility

Facility Requirements

Permit Number:1840-00010

Activity ID No.: PER20150002

Page 4 of 20

**EQPT0000000001 (continued):**

### Monitoring Requirements:

Condition No.	Parameter	Condition
M-2		<p>For Emission Points AA-001, the permittee shall conduct weekly observations for visible emissions (Opacity) in accordance with Method 22. If visible emissions are observed from the emission point (six-minute interval), the permittee shall conduct visible emission evaluations (VEE) in accordance with EPA Reference Method 9. The permittee shall maintain records of weekly visible emissions observations and any VEEs that are performed in log book form. A summary report shall be submitted by January 31 and July 31 for the preceeding six month period.</p> <p>The permittee may perform the observations on multiple stacks at the same time, where multiple stacks can be viewed simultaneously. [11 Miss. Admin. Code Pt. 2, Ch. 2. R.2.2.B(10)]</p>



## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

S and B Industrial Minerals North America, Aberdeen Facility

Facility Requirements

Permit Number:1840-00010

Activity ID No.: PER20150002

Page 5 of 20

### EQPT0000000002 (AA-002) 26 TPH, 66 Inch Roller Mill (RL-01) equipped with a baghouse (DC-02):

#### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Opacity	Opacity: Opacity shall be less than 40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A. [11 Miss. Admin. Code Pt. 2, Ch. 1. 3.A]

#### Monitoring Requirements:

Condition No.	Parameter	Condition
M-1		<p>For Emission Points AA-002, the permittee shall conduct weekly observations for visible emissions (Opacity) in accordance with Method 22. If visible emissions are observed from the emission point (six-minute interval), the permittee shall conduct visible emission evaluations (VEE) in accordance with EPA Reference Method 9. The permittee shall maintain records of weekly visible emissions observations and any VEEs that are performed in log book form. A summary report shall be submitted by January 31 and July 31 for the preceeding six month period.</p> <p>The permittee may perform the observations on multiple stacks at the same time, where multiple stacks can be viewed simultaneously. [11 Miss. Admin. Code Pt. 2, Ch. 2. R.2.2.B(10)]</p>
M-2		<p>For Emission Point AA-002, 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)]</p>

## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

S and B Industrial Minerals North America, Aberdeen Facility

Facility Requirements

Permit Number:1840-00010

Activity ID No.: PER20150002

Page 6 of 20

### EQPT0000000003 (AA-003) 20 TPH, 50 Inch Roller Mill (RL-02) equipped with a baghouse (DC-03):

#### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Opacity	Opacity: Opacity shall be less than 40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A. [11 Miss. Admin. Code Pt. 2, Ch. 1. R.1.3.A]

#### Monitoring Requirements:

Condition No.	Parameter	Condition
M-1		<p>For Emission Points AA-003, the permittee shall conduct weekly observations for visible emissions (Opacity) in accordance with Method 22. If visible emissions are observed from the emission point (six-minute interval), the permittee shall conduct visible emission evaluations (VEE) in accordance with EPA Reference Method 9. The permittee shall maintain records of weekly visible emissions observations and any VEEs that are performed in log book form. A summary report shall be submitted by January 31 and July 31 for the preceeding six month period.</p> <p>The permittee may perform the observations on multiple stacks at the same time, where multiple stacks can be viewed simultaneously. [11 Miss. Admin. Code Pt. 2, Ch. 2. R.2.2.B(10)]</p>
M-2		<p>For Emission Point AA-003, 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)]</p>

## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

S and B Industrial Minerals North America, Aberdeen Facility

Facility Requirements

Permit Number:1840-00010

Activity ID No.: PER20150002

Page 7 of 20

### **EQPT0000000021 (AA-005) Product Storage Silo (SI-01) equipped with a baghouse (DC-05) for control of particulate matter emissions:**

#### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Opacity	Opacity: Opacity shall be less than 40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A. [11 Miss. Admin. Code Pt. 2, Ch. 1. 3.A]

#### Monitoring Requirements:

Condition No.	Parameter	Condition
M-1		<p>For Emission Points AA-005, the permittee shall conduct weekly observations for visible emissions (Opacity) in accordance with Method 22. If visible emissions are observed from the emission point (six-minute interval), the permittee shall conduct visible emission evaluations (VEE) in accordance with EPA Reference Method 9. The permittee shall maintain records of weekly visible emissions observations and any VEEs that are performed in log book form. A summary report shall be submitted by January 31 and July 31 for the preceeding six month period.</p> <p>The permittee may perform the observations on multiple stacks at the same time, where multiple stacks can be viewed simultaneously. [11 Miss. Admin. Code Pt. 2, Ch. 2. R.2.2.B(10)]</p>
M-2		<p>For Emission Point AA-005, 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)]</p>

## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

S and B Industrial Minerals North America, Aberdeen Facility

Facility Requirements

Permit Number:1840-00010

Activity ID No.: PER20150002

Page 8 of 20

**EQPT0000000004 (AA-006) Packing/Rail Loadout Bucket Elevator (BE-04) equipped with a baghouse (DC-06). Emissions from Product Storage Bins (SI-01 through SI-04) are also controlled by the baghouse:**

### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Opacity	Opacity: Opacity shall be less than 40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A. [11 Miss. Admin. Code Pt. 2, Ch. 1. 3.A]

### Monitoring Requirements:

Condition No.	Parameter	Condition
M-1		<p>For Emission Points AA-006, the permittee shall conduct weekly observations for visible emissions (Opacity) in accordance with Method 22. If visible emissions are observed from the emission point (six-minute interval), the permittee shall conduct visible emission evaluations (VEE) in accordance with EPA Reference Method 9. The permittee shall maintain records of weekly visible emissions observations and any VEEs that are performed in log book form. A summary report shall be submitted by January 31 and July 31 for the preceeding six month period.</p> <p>The permittee may perform the observations on multiple stacks at the same time, where multiple stacks can be viewed simultaneously. [11 Miss. Admin. Code Pt. 2, Ch. 2. R.2.2.B(10)]</p>
M-2		<p>For Emission Point AA-006, 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)]</p>

## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

S and B Industrial Minerals North America, Aberdeen Facility

Facility Requirements

Permit Number:1840-00010

Activity ID No.: PER20150002

Page 9 of 20

**EQPT0000000020 (AA-007) Mill Feed Bucket Elevator(BE-03) equipped with baghouse (DC-07). Emissions from Product Storage Bins (SI-05 through SI-08) are also controlled by the baghouse :**

### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Opacity	Opacity: Opacity shall be less than 40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A. [11 Miss. Admin. Code Pt. 2, Ch. 1. 3.A]

### Monitoring Requirements:

Condition No.	Parameter	Condition
M-1		<p>For Emission Points AA-007, the permittee shall conduct weekly observations for visible emissions (Opacity) in accordance with Method 22. If visible emissions are observed from the emission point (six-minute interval), the permittee shall conduct visible emission evaluations (VEE) in accordance with EPA Reference Method 9. The permittee shall maintain records of weekly visible emissions observations and any VEEs that are performed in log book form. A summary report shall be submitted by January 31 and July 31 for the preceeding six month period.</p> <p>The permittee may perform the observations on multiple stacks at the same time, where multiple stacks can be viewed simultaneously. [11 Miss. Admin. Code Pt. 2, Ch. 2. R.2.2.B(10)]</p>
M-2		<p>For Emission Point AA-007, 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)]</p>

## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

S and B Industrial Minerals North America, Aberdeen Facility

Facility Requirements

Permit Number:1840-00010

Activity ID No.: PER20150002

Page 10 of 20

### **EQPT0000000005 (AA-008) 100 TPH Truck Loading Process and 100 ton storage silo (SI-09) equipped with a baghouse (DC-08):**

#### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Opacity	Opacity: Opacity shall be less than 40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A. [11 Miss. Admin. Code Pt. 2, Ch. 1. 3.A]

#### Monitoring Requirements:

Condition No.	Parameter	Condition
M-1		<p>For Emission Points AA-008, the permittee shall conduct weekly observations for visible emissions (Opacity) in accordance with Method 22. If visible emissions are observed from the emission point (six-minute interval), the permittee shall conduct visible emission evaluations (VEE) in accordance with EPA Reference Method 9. The permittee shall maintain records of weekly visible emissions observations and any VEEs that are performed in log book form. A summary report shall be submitted by January 31 and July 31 for the preceeding six month period.</p> <p>The permittee may perform the observations on multiple stacks at the same time, where multiple stacks can be viewed simultaneously. [11 Miss. Admin. Code Pt. 2, Ch. 2. R.2.2.B(10)]</p>
M-2		<p>For Emission Point AA-008, 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)]</p>

## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

S and B Industrial Minerals North America, Aberdeen Facility

Facility Requirements

Permit Number:1840-00010

Activity ID No.: PER20150002

Page 11 of 20

**EQPT0000000006 (AA-009) 100 TPH Four Spout Saint Regis Packing Machine (BA-01) and 100 ton Packer Surge Bin (BN-03) equipped with a baghouse (DC-09):**

### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Opacity	Opacity: Opacity shall be less than 40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A. [11 Miss. Admin. Code Pt. 2, Ch. 1. 3.A]

### Monitoring Requirements:

Condition No.	Parameter	Condition
M-1		<p>For Emission Points AA-009, the permittee shall conduct weekly observations for visible emissions (Opacity) in accordance with Method 22. If visible emissions are observed from the emission point (six-minute interval), the permittee shall conduct visible emission evaluations (VEE) in accordance with EPA Reference Method 9. The permittee shall maintain records of weekly visible emissions observations and any VEEs that are performed in log book form. A summary report shall be submitted by January 31 and July 31 for the preceeding six month period.</p> <p>The permittee may perform the observations on multiple stacks at the same time, where multiple stacks can be viewed simultaneously. [11 Miss. Admin. Code Pt. 2, Ch. 2. R.2.2.B(10)]</p>
M-2		<p>For Emission Point AA-009, 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)]</p>

## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

S and B Industrial Minerals North America, Aberdeen Facility

Facility Requirements

Permit Number:1840-00010

Activity ID No.: PER20150002

Page 12 of 20

### EQPT0000000022 (AA-009a) 12 TPH Bulk Bag Filling Station (BA-02) and Reclaim Hopper (HO-01):

#### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Particulate Matter	Particulate Matter: The permittee shall not discharge or cause the discharge into the atmosphere from any affected facility any gases which contain particulate matter in excess of 0.022 gr/dscf. [40 CFR 60.672(e), 40 CFR 60.672(a)]
L-2	Opacity	Opacity: The permittee shall not discharge or cause the discharge into the atmosphere from any affected facility any gases which exhibit 7 percent opacity, or greater. [40 CFR 60.672(e), 40 CFR 60.672(a)]

#### Monitoring Requirements:

Condition No.	Parameter	Condition
M-1		For Emission Point AA-009a, the permittee that uses a baghouse to control emissions shall conduct quarterly 30-minute visible emissions inspections using EPA Method 22 (40 CFR part 60, Appendix A-7). The Method 22 (40 CFR part 60, Appendix A-7) test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the owner or operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation. The owner or operator must record each Method 22 (40 CFR part 60, Appendix A-7) test, including the date and any corrective actions taken, in the logbook required under §60.676(b). The owner or operator of the affected facility may establish a different baghouse-specific success level for the visible emissions test (other than no visible emissions) by conducting a PM performance test according to §60.675(b) simultaneously with a Method 22 (40 CFR part 60, Appendix A-7) to determine what constitutes normal visible emissions from that affected facility's baghouse when it is in compliance with the applicable PM concentration limit in Table 2 of this subpart. The revised visible emissions success level must be incorporated into the permit for the affected facility. [40 CFR 60.674(c)]



## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

S and B Industrial Minerals North America, Aberdeen Facility

Facility Requirements

Permit Number:1840-00010

Activity ID No.: PER20150002

Page 13 of 20

### EQPT0000000022 (continued):

#### Record-Keeping Requirements:

Condition No.	Condition
R-1	For Emission Point AA-009a, the permittee shall record each periodic inspection required under §60.674(b) or (c), including dates and any corrective actions taken, in a logbook (in written or electronic format). The owner or operator must keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available to the Administrator upon request. [40 CFR 60.676(b)(1)]

#### Submittal/Action Requirements:

Condition No.	Condition
S-1	The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672 of this subpart, including reports of opacity observations made using Method 9 (40 CFR part 60, Appendix A-4) to demonstrate compliance with §60.672(b), (e) and (f). [40 CFR 60.676(f)]

#### Narrative Requirements:

Condition No.	Condition
T-1	Emission Point AA-009a is affected by and shall comply with the New Source Performance Standards for Nonmetallic Mineral Processing Plants as specified in 40 CFR 60, Subpart OOO (60.670 through 60.676). [40 CFR 60_SUBPART OOO]
T-2	For Emission Point AA-009a, the permittee shall determine compliance with the particulate matter standards in 40 CFR 60.672(b) as determined by EPA Test Method 9 of Appendix A-4 of this subpart and the procedures in 40 CFR 60.11 and 40 CFR 60.675(c) through 60.675(g). [40 CFR 60.675(c)]

## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

S and B Industrial Minerals North America, Aberdeen Facility

Facility Requirements

Permit Number:1840-00010

Activity ID No.: PER20150002

Page 14 of 20

### EQPT0000000007 (AA-010) 100 TPH Railcar Loading Process equipped with a baghouse (DC-10):

#### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Opacity	Opacity: Opacity shall be less than 40% as determined by EPA Test Method 9, 40 CFR 60, Appendix A. [11 Miss. Admin. Code Pt. 2, Ch. 1. 3.A]

#### Monitoring Requirements:

Condition No.	Parameter	Condition
M-1		<p>For Emission Points AA-010, the permittee shall conduct weekly observations for visible emissions (Opacity) in accordance with Method 22. If visible emissions are observed from the emission point (six-minute interval), the permittee shall conduct visible emission evaluations (VEE) in accordance with EPA Reference Method 9. The permittee shall maintain records of weekly visible emissions observations and any VEEs that are performed in log book form. A summary report shall be submitted by January 31 and July 31 for the preceeding six month period.</p> <p>The permittee may perform the observations on multiple stacks at the same time, where multiple stacks can be viewed simultaneously. [11 Miss. Admin. Code Pt. 2, Ch. 2. R.2.2.B(10)]</p>
M-2		<p>For Emission Point AA-010, 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)]</p>

## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

S and B Industrial Minerals North America, Aberdeen Facility

Facility Requirements

Permit Number:1840-00010

Activity ID No.: PER20150002

Page 15 of 20

### **EQPT0000000011 (AA-011) 30' C&D Conveyor (BC-04) equipped with a baghouse (DC-01):**

#### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Particulate Matter	Particulate Matter: The permittee shall not discharge or cause the discharge into the atmosphere from any affected facility any gases which contain particulate matter in excess of 0.022 gr/dscf. [40 CFR 60.672(e), 40 CFR 60.672(a)]
L-2	Opacity	Opacity: The permittee shall not discharge or cause the discharge into the atmosphere from any affected facility any gases which exhibit 7 percent opacity, or greater. [40 CFR 60.672(e), 40 CFR 60.672(a)]

#### Monitoring Requirements:

Condition No.	Parameter	Condition
M-1		For Emission Point AA-011, the permittee that uses a baghouse to control emissions shall conduct quarterly 30-minute visible emissions inspections using EPA Method 22 (40 CFR part 60, Appendix A-7). The Method 22 (40 CFR part 60, Appendix A-7) test shall be conducted while the baghouse is operating. The test is successful if no visible emissions are observed. If any visible emissions are observed, the owner or operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation. The owner or operator must record each Method 22 (40 CFR part 60, Appendix A-7) test, including the date and any corrective actions taken, in the logbook required under §60.676(b). The owner or operator of the affected facility may establish a different baghouse-specific success level for the visible emissions test (other than no visible emissions) by conducting a PM performance test according to §60.675(b) simultaneously with a Method 22 (40 CFR part 60, Appendix A-7) to determine what constitutes normal visible emissions from that affected facility's baghouse when it is in compliance with the applicable PM concentration limit in Table 2 of this subpart. The revised visible emissions success level must be incorporated into the permit for the affected facility. [40 CFR 60.674(c)]

## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

S and B Industrial Minerals North America, Aberdeen Facility

Facility Requirements

Permit Number:1840-00010

Activity ID No.: PER20150002

Page 16 of 20

### EQPT0000000011 (continued):

#### Record-Keeping Requirements:

Condition No.	Condition
R-1	For Emission Point AA-011, the permittee shall record each periodic inspection required under §60.674(b) or (c), including dates and any corrective actions taken, in a logbook (in written or electronic format). The owner or operator must keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available to the Administrator upon request. [40 CFR 60.676(b)(1)]

#### Submittal/Action Requirements:

Condition No.	Condition
S-1	The permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672 of this subpart, including reports of opacity observations made using Method 9 (40 CFR part 60, Appendix A-4) to demonstrate compliance with §60.672(b), (e) and (f). [40 CFR 60.676(f)]

#### Narrative Requirements:

Condition No.	Condition
T-1	For Emission Point AA-011, the permittee shall determine compliance with the particulate matter standards in 40 CFR 60.672(b) as determined by EPA Test Method 9 of Appendix A-4 of this subpart and the procedures in 40 CFR 60.11 and 40 CFR 60.675(c) through 60.675(g). [40 CFR 60.675(c)]
T-2	Emission Point AA-011 is affected by and shall comply with the New Source Performance Standards for Nonmetallic Mineral Processing Plants as specified in 40 CFR 60, Subpart OOO (60.670 through 60.676). [40 CFR 60_SUBPART OOO]

## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

S and B Industrial Minerals North America, Aberdeen Facility

Facility Requirements

Permit Number:1840-00010

Activity ID No.: PER20150002

Page 17 of 20

### EQPT0000000012 (AA-012) 125 TPH 48 inch width shredder feed belt conveyor feeding shredder (BC-01):

#### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Opacity	Opacity: The permittee shall not discharge or cause the discharge into the atmosphere from any transfer point on a belt conveyor any gases which exhibit 10 percent opacity, or greater. [40 CFR 60.672(b)]

#### Submittal/Action Requirements:

Condition No.	Condition
S-1	For Emission Point AA-012, the permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR 60.672 , including reports of opacity observations made using Method 9 (40 CFR part 60, Appendix A-4) to demonstrate compliance with 40 CFR 60.672(b). [40 CFR 60.676(f)]

#### Narrative Requirements:

Condition No.	Condition
T-1	Emission Point AA-012 is affected by and shall comply with the New Source Performance Standards for Nonmetallic Mineral Processing Plants as specified in 40 CFR 60, Subpart OOO (60.670 through 60.676). [40 CFR 60_SUBPART OOO]

## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

S and B Industrial Minerals North America, Aberdeen Facility

Facility Requirements

Permit Number:1840-00010

Activity ID No.: PER20150002

Page 18 of 20

### EQPT0000000013 (AA-013) 125 TPH Stacker Belt Conveyor (BC-02):

#### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Opacity	Opacity: The permittee shall not discharge or cause the discharge into the atmosphere from any transfer point on a belt conveyor any gases which exhibit 10 percent opacity, or greater. [40 CFR 60.672(b)]

#### Submittal/Action Requirements:

Condition No.	Condition
S-1	For Emission Point AA-013, the permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR 60.672 , including reports of opacity observations made using Method 9 (40 CFR part 60, Appendix A-4) to demonstrate compliance with 40 CFR 60.672(b). [40 CFR 60.676(f)]

#### Narrative Requirements:

Condition No.	Condition
T-1	Emission Point AA-013 is affected by and shall comply with the New Source Performance Standards for Nonmetallic Mineral Processing Plants as specified in 40 CFR 60, Subpart OOO (60.670 through 60.676). [40 CFR 60_SUBPART OOO]

## Permit to Operate Air Emissions Equipment at a Synthetic Minor Source

S and B Industrial Minerals North America, Aberdeen Facility

Facility Requirements

Permit Number:1840-00010

Activity ID No.: PER20150002

Page 19 of 20

### EQPT0000000014 (AA-014) 100 TPH Gleason Clay Shredder (CR-01):

#### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Opacity	Opacity: The permittee shall not discharge or cause the discharge into the atmosphere from any affected facility any gases which exhibit 15 percent opacity, or greater. [40 CFR 60.672(b)]

#### Submittal/Action Requirements:

Condition No.	Condition
S-1	For Emission Point AA-014, the permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR 60.672 , including reports of opacity observations made using Method 9 (40 CFR part 60, Appendix A 4) to demonstrate compliance with 40 CFR 60.672(b). [40 CFR 60.676(f)]

#### Narrative Requirements:

Condition No.	Condition
T-1	Emission Point AA-014 is affected by and shall comply with the New Source Performance Standards for Nonmetallic Mineral Processing Plants as specified in 40 CFR 60, Subpart OOO (60.670 through 60.676). [40 CFR 60_SUBPART OOO]

**Permit to Operate Air Emissions Equipment at a Synthetic Minor Source**

S and B Industrial Minerals North America, Aberdeen Facility

Facility Requirements

Permit Number:1840-00010

Activity ID No.: PER20150002

Page 20 of 20

**GRPT0000000001 Storage Tanks (TK-01, TK-02, TK-03, TK-04):**

Narrative Requirements:

---

Condition No.	Condition
T-1	The permittee is authorized to operate air emissions equipment and emit air contaminants from the above reference storage tanks. Such air emissions equipment shall be operated as efficiently as possible to provide the maximum reduction of air contaminants. [11 Miss. Admin. Code Pt. 2, Ch. 6. VII.B(7)]

---



## GENERAL INFORMATION

S and B Industrial Minerals North America, Aberdeen Facility  
10033 IMC Road  
Aberdeen, MS  
Monroe County

### Alternate/Historic Identifiers

ID	Alternate/Historic Name	User Group	Start Date	End Date
2083	S & B Industrial Minerals North America	Official Site Name	10/24/2008	
2809500010	S & B Industrial Minerals North America	Air-AIRS AFS	10/12/2000	
184000010	Unimin Corporation, Aberdeen Facility	Air-Synthetic Minor Operating	4/19/1999	4/1/2004
MSR001171	Unimin Corporation, Aberdeen Facility	GP-Baseline	3/15/1995	11/27/2000
MSR320004	Unimin Corporation, Aberdeen Facility	GP-Mining	11/1/1995	12/12/2007
MSR320004	Unimin Corporation, Aberdeen Facility	GP-Mining	11/10/1992	11/1/1995
MSR320467	Unimin Corporation, Aberdeen Facility	GP-Mining	3/15/1995	11/9/1997
MS0050512	Unimin Corporation, Aberdeen Facility	Water - NPDES	8/8/1995	5/1/2000
MSR001171	Unimin Corporation, Aberdeen Facility	GP-Baseline	11/27/2000	2/15/2006
184000010	Unimin Corporation, Aberdeen Facility	Air-Synthetic Minor Operating	3/29/2005	11/10/2008
MSR001171	Unimin Corporation, Aberdeen Facility	GP-Baseline	2/15/2006	11/10/2008
MSR320004	Unimin Corporation, Aberdeen Facility	GP-Mining	12/12/2007	11/10/2008
A1291	UNIMIN Corporation annual	Geology-Mining-Application	1/24/2000	1/24/2000
P00041	UNIMIN Corporation annual	Geology-Mining-Permit	7/27/2000	7/27/2010
A010	UNIMIN Corporation Class 1 R	Geology-Mining-Application	8/18/1978	8/18/1978
P78014T	UNIMIN Corporation Class 1 R	Geology-Mining-Permit	8/18/1978	8/18/2008
A022	UNIMIN Corporation T/Fowlkes Pit	Geology-Mining-Application	12/11/1978	12/11/1978
P78021T	UNIMIN Corporation T/Fowlkes Pit	Geology-Mining-Permit	12/11/1978	12/11/2008
A079	UNIMIN Corporation Class 1 R	Geology-Mining-Application	1/8/1981	1/8/1981
P81004T	UNIMIN Corporation Class 1 R	Geology-Mining-Permit	1/8/1981	1/8/2011
A166	UNIMIN Corporation annual/Beckwith Pit	Geology-Mining-Application	7/27/1984	7/27/1984
P84013T	UNIMIN Corporation annual/Beckwith Pit	Geology-Mining-Permit	7/27/1984	7/27/2009
A247	UNIMIN Corporation Class 1	Geology-Mining-Application	6/5/1987	6/5/1987

## GENERAL INFORMATION

ID	Alternate/Historic Name	User Group	Start Date	End Date
P87014T	UNIMIN Corporation Class 1	Geology-Mining-Permit	6/5/1987	6/5/2012
A395	UNIMIN Corporation annual/Aberdeen Pit	Geology-Mining-Application	10/25/1990	10/25/1990
P90040T	UNIMIN Corporation annual/Aberdeen Pit	Geology-Mining-Permit	10/25/1990	10/25/2010
A445	UNIMIN Corporation Class 1	Geology-Mining-Application	10/21/1991	10/21/1991
P91049T	UNIMIN Corporation Class 1	Geology-Mining-Permit	10/21/1991	10/21/2011
A1216	UNIMIN Corporation annual	Geology-Mining-Application	3/1/1999	3/1/1999
P99040	UNIMIN Corporation annual	Geology-Mining-Permit	7/22/1999	7/22/2009
2083	Unimin Corporation	Historic Site Name	11/10/1992	10/24/2008
184000010	S & B Industrial Minerals North America	Air-Synthetic Minor Operating	11/10/2008	2/28/2010
MSR320004	S and B Industrial Minerals North America, Aberdeen Facility	GP-Mining	11/10/2008	9/30/2010
MSR001171	S and B Industrial Minerals North America, Aberdeen Facility	GP-Baseline	11/10/2008	11/8/2010
A1778	S and S Industrial Minerals North America, S & B Aberdeen Mine	Geology-Mining-Application	9/23/2010	
MSR001171	S and B Industrial Minerals North America, Aberdeen Facility	GP-Baseline	11/8/2010	1/28/2016
184000010	S and B Industrial Minerals North America, Aberdeen Facility	Air-Synthetic Minor Operating	1/20/2011	12/31/2015
MSR320004	S and B Industrial Minerals North America, Aberdeen Facility	GP-Mining	5/5/2014	8/31/2017
P84-013T1	S & B Industrial Minerals North America, Inc	Geology-Mining-Permit	6/12/2014	6/30/2019
P99040T	S and B Industrial Minerals North American, Inc,	Geology-Mining-Permit	6/12/2014	6/30/2019
P00041T	S and B Industrial Minerals North America	Geology-Mining-Permit	7/27/2000	6/30/2020
P90040T1	S and B Industrial Minerals North America	Geology-Mining-Permit	10/25/1990	9/30/2020
P81004T1	S and B Industrial Minerals North America, Inc,	Geology-Mining-Permit	1/8/1981	12/31/2020
MSR001171	S & B Industrial Minerals North America, Aberdeen Facility	GP-Baseline	1/28/2016	10/31/2020
184000010	S and B Industrial Minerals North America, Aberdeen Facility	Air-Synthetic Minor Operating	4/12/2016	3/31/2021

**Basin:** Tombigbee River Basin

**Location Description:**PG- Permit off of Duracott Rd. Data collected by Ron Porter on 3/8/2005. GPS taken at gated entr

## **GENERAL INFORMATION**