



W. Marshall Taylor Jr., Acting Director

*Promoting and protecting the health of the public and the environment*

March 3, 2015

Certified Mail  
91 7199 9991 7033 6607 0761

David C. Boggs  
Winnsboro Crushed Stone LLC  
PO Box 1609  
Monroe, NC 28111

Re: Construction Permit No. 1000-0038-CA

Dear Mr. Boggs:

Enclosed is Construction Permit No. 1000-0038-CA. This construction permit is being issued in accordance with the plans, specifications and other information submitted in the construction permit application, as amended.

In addition to this permit to construct, a permit to operate is required in accordance with *South Carolina Regulation 61-62, Air Pollution Control Regulations and Standards*. The regulations require a written request for a new or revised operating permit to cover any new or altered source, postmarked no later than fifteen (15) days after the actual date of initial startup of each new or altered source unless a more stringent time frame is required.

Please note the emissions limitations and operational requirements contained within this permit. It is important for you and/or an authorized representative responsible for the overall operation of this facility to read this issued permit carefully and to understand all requirements. If any errors or omissions are discovered, please notify Mareesa Singleton of my staff, via e-mail at [singlemj@dhec.sc.gov](mailto:singlemj@dhec.sc.gov), or call (803) 898-4113 immediately.

Pursuant to the South Carolina Administrative Procedures Act, any Department decision involving the issuance, denial, renewal, suspension or revocation of a permit may be appealed by the applicant, permittee, licensee, and/or affected persons. Please see the enclosed "Guide to Board Review" for guidelines on filing an appeal.

Sincerely,

Elizabeth J. Basil  
Director, Engineering Services Division, Bureau of Air Quality

EJB:mjs:kea  
Enclosure

cc: Permit File: 1000-0038  
ec: Ben Buchanan, BEHS  
Matthew Wike, GEL Engineering ([matthew.wike@gel.com](mailto:matthew.wike@gel.com))  
Craig Kennedy, Kennedy Consulting Services, LLC ([craigkennedy.KCS@gmail.com](mailto:craigkennedy.KCS@gmail.com))  
Michael Shroup, Source Evaluation  
Heinz Kaiser, Air Toxics



# Office of Environmental Quality Control

## Bureau of Air Quality

### Synthetic Minor Construction Permit

**Winnsboro Crushed Stone LLC**

**Rockton Thruway and Highway 34**

**Winnsboro Mills, South Carolina 29180  
Fairfield County**

Pursuant to the provisions of the *Pollution Control Act*, Sections 48-1-50(5) and 48-1-110(a), the 1976 *Code of Laws of South Carolina*, as amended, and *South Carolina Regulation 61-62, Air Pollution Control Regulations and Standards*, the Bureau of Air Quality authorizes the construction of this facility and the equipment specified herein in accordance with the plans, specifications, and other information submitted in the construction permit application received on August 21, 2014, as amended. All official correspondence, plans, permit applications, and written statements are an integral part of the permit. Any false information or misrepresentation in the application for a construction permit may be grounds for permit revocation.

The construction and subsequent operation of this facility is subject to and conditioned upon the terms, limitations, standards, and schedules contained herein or as specified by this permit and its accompanying attachments.

**Permit Number: 1000-0038-CA**

**Issue Date: March 3, 2015**

**Director, Engineering Services Division  
Bureau of Air Quality**

# WINNSBORO CRUSHED STONE LLC

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## A. PROJECT DESCRIPTION

Permission is hereby granted to construct a new crushed stone processing plant capable of crushing 800 tons per hour from the primary crusher. The facility will consist of four crushers (primary, secondary, tertiary, and quaternary or fines), four material screens, twenty-three conveyors, ten storage piles, and a truck loading operation.

## B. EMISSION UNIT DESCRIPTION

Emission Unit ID	Emission Unit Description
01	Mining
02	Stone Processing
03	Roads

## C. EQUIPMENT AND CONTROL DEVICE

### C.1 EQUIPMENT FOR EMISSION UNIT 01 - MINING

Equipment ID	Equipment Description	Control Device ID	Emission Point ID
Tload	Final Product Truck Loading	None	Fugitive
Drill	Quarry Drilling	None	Fugitive
HaulLoad	Quarry Truck Loading	None	Fugitive

### C.2 EQUIPMENT FOR EMISSION UNIT 02 - STONE PROCESSING

Equipment ID	Equipment Description	Control Device ID	Emission Point ID
CR1	800 tons/hr Crushing Station No. 1 (Jaw)	CD-WS	Fugitive
C1	36" x 100' Conveyor	CD-WS, CD-WCO	Fugitive
C2	42" x 106' Tunnel Conveyor	CD-WS, CD-WCO	Fugitive
Feeders	Two (s) Syntron Feeders	CD-WS	Fugitive
C3	42" x 100' Conveyor	CD-WS, CD-WCO	Fugitive
CR2	400 tons/hr Crushing Station No. 2 (Secondary)	CD-WS, CD-WCO	Fugitive
C4	36" x 100' Conveyor	CD-WS, CD-WCO	Fugitive
S1	500 tons/hr 6' x 20' 3 - Deck Screen # 1	CD-WS, CD-WCO	Fugitive
C5	48" x 20' Under Crusher Conveyor	CD-WS, CD-WCO	Fugitive
C6	36" x 23' Under Screen Conveyor	CD-WS, CD-WCO	Fugitive
C7	36" x 80' Conveyor	CD-WS, CD-WCO	Fugitive
C8	36" x 100' Conveyor	CD-WS, CD-WCO	Fugitive
CR3	390 tons/hr Crushing Station No. 3 (Tertiary)	CD-WS, CD-WCO	Fugitive
S2	390 tons/hr 6' x 20' 3 - Deck Screen # 2	CD-WS, CD-WCO	Fugitive
C9	26" x 23' Under Crusher Conveyor	CD-WS, CD-WCO	Fugitive
C10	42" x 32' Under Screen Conveyor	CD-WS, CD-WCO	Fugitive
C11	36" x 100' Conveyor	CD-WS, CD-WCO	Fugitive
C12	36" x 100' Conveyor	CD-WS, CD-WCO	Fugitive
C13	36" x 100' Conveyor	CD-WS, CD-WCO	Fugitive
C14	36" x 100' Conveyor	CD-WS, CD-WCO	Fugitive
CR4	320 tons/hr Crushing Station No. 4 (Quaternary)	CD-WS, CD-WCO	Fugitive
S3	290 tons/hr 6' x 20' 3 - Deck Screen # 3	CD-WS, CD-WCO	Fugitive
C15	36" x 46' 3" Conveyor (Screen Feed #1)	CD-WS, CD-WCO	Fugitive

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## C.2 EQUIPMENT FOR EMISSION UNIT 02 - STONE PROCESSING

Equipment ID	Equipment Description	Control Device ID	Emission Point ID
C16	36" x 16' Conveyor (Screen Feed #2)	CD-WS, CD-WCO	Fugitive
C17	36" x 33'7" Under Crusher Conveyor	CD-WS, CD-WCO	Fugitive
C18	60" x 20'3" Under Screen Conveyor	CD-WS, CD-WCO	Fugitive
C19	36" x 100' Conveyor	CD-WS, CD-WCO	Fugitive
C20	36" x 100' Conveyor	CD-WS, CD-WCO	Fugitive
C21	36" x 100' Conveyor	CD-WS, CD-WCO	Fugitive
C22	36" x 100' Conveyor	CD-WS, CD-WCO	Fugitive
S4	160 tons/hr 6' x 180' 2 - Deck Screen # 4	CD-WS, CD-WCO	Fugitive
C23	48" x 25 Under Screen Conveyor	CD-WS, CD-WCO	Fugitive
Piles	Storage Piles 1 - 10	None	Fugitive

## C.3 CONTROL DEVICES FOR EMISSION UNIT 02 - STONE PROCESSING

Control Device ID	Control Device Description	Pollutants Controlled
CD-WS	Wet Suppression	PM, PM <sub>10</sub> , PM <sub>2.5</sub>
CD-WCO	Water Carry Over	PM, PM <sub>10</sub> , PM <sub>2.5</sub>

## C.4 EQUIPMENT FOR EMISSION UNIT 03 - ROADS

Equipment ID	Equipment Description	Control Device ID	Emission Point ID
Haul	Haul Roads	CD-WS	Fugitive
Drill	Customer Plant Roads	CD-WS	Fugitive

## C.6 CONTROL DEVICES

Control Device ID	Control Device Description	Pollutants Controlled
CD-WS	Wet Suppression	PM, PM <sub>10</sub> , PM <sub>2.5</sub>

## D. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
D.1	<p><b>Emission Unit ID:</b> All  <b>Equipment/Control Device ID:</b> All</p> <p>(S.C. Regulation 61-62.1, Section II.J.1.g) A copy of the Department issued construction and/or operating permit must be kept readily available at the facility at all times. The owner or operator shall maintain such operational records; make reports; install, use, and maintain monitoring equipment or methods; sample and analyze emissions or discharges in accordance with prescribed methods at locations, intervals, and procedures as the Department shall prescribe; and provide such other information as the Department reasonably may require. All records required to demonstrate compliance with the limits established under this permit shall be maintained on site for a period of at least 5 years from the date the record was generated and shall be made available to a Department representative upon request.</p>

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## D. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions				
D.2	<p><b>Emission Unit ID:</b> 02  <b>Equipment/Control Device ID:</b> Crushers CR1 - CR4, Conveyors C1 – C23, Screens S1 – S4</p> <p>For any source test required under an applicable standard or permit condition, the owner, operator, or representative shall comply with S.C. Regulation 61-62.1, Section IV - Source Tests.</p> <p>The owner, operator, or representative shall ensure that source tests are conducted while the source is operating at the maximum expected production rate or other production rate or operating parameter which would result in the highest emissions for the pollutants being tested. Some sources may have to spike fuels or raw materials to avoid being subjected to a more restrictive feed or process rate. Any source test performed at a production rate less than the rated capacity may result in permit limits on emission rates, including limits on production if necessary.</p> <p>The owner/operator shall comply with any limits that result from conducting a source test at less than rated capacity. A copy of the most recent Department issued source test summary letter, whether it imposes a limit or not, shall be maintained with the construction permit, for each source that is required to conduct a source test.</p> <p>Site-specific test plans and amendments, notifications, and source test reports shall be submitted to the Manager of the Source Evaluation Section, Bureau of Air Quality.</p>				
D.3	<p><b>Emission Unit ID:</b> 01, 02  <b>Equipment/Control Device ID:</b> All</p> <p>(S.C. Regulation 61-62.5, Standard No. 4, Section IX) Where construction or modification began after December 31, 1985, emissions from these sources (including fugitive emissions) shall not exhibit an opacity greater than 20%.</p>				
D.4	<p><b>Emission Unit ID:</b> 01,02  <b>Equipment/Control Device ID:</b> All</p> <p>(S.C. Regulation 61-62.5, Standard No. 4, Section VIII) Particulate matter emissions shall be limited to the rate specified by use of the following equations:</p> <p style="padding-left: 40px;">For process weight rates less than or equal to 30 tons per hour  <math>E = (F) 4.10P^{0.67}</math> and</p> <p style="padding-left: 40px;">For process weight rates greater than 30 tons per hour  <math>E = (F) 55.0P^{0.11} - 40</math></p> <p style="padding-left: 40px;">Where E = the allowable emission rate in pounds per hour  P = process weight rate in tons per hour  F = effect factor from Table B in S.C. Regulation 61-62.5, Standard No. 4</p> <p>For the purposes of compliance with this condition, the process boundaries are defined as follows:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Process/Equipment IDs</th> <th style="text-align: center;">Max Process Weight Rate (ton/hr)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Mining and Crushed Stone Processing (including storage piles)</td> <td style="text-align: center;">74.74</td> </tr> </tbody> </table>	Process/Equipment IDs	Max Process Weight Rate (ton/hr)	Mining and Crushed Stone Processing (including storage piles)	74.74
Process/Equipment IDs	Max Process Weight Rate (ton/hr)				
Mining and Crushed Stone Processing (including storage piles)	74.74				
D.5	<p><b>Emission Unit ID:</b> 02  <b>Equipment/Control Device ID:</b> All</p> <p>This facility is subject to the provisions of 40 CFR Part 60, New Source Performance Standards General Provisions, Subparts A, Standards of Performance for Nonmetallic Mineral Processing Plants, Subpart OOO. Existing affected sources shall comply with the applicable provisions by the compliance date specified in Subparts OOO. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted.</p>				

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D. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
D.6	<p><b>Emission Unit ID:</b> 02 <b>Equipment/Control Device ID:</b> All</p> <p>40 CFR 60 Subpart OOO Applicability</p> <p>(40 CFR 60.670(a)(1)) Except as provided in paragraphs (a)(2), (b), (c), and (d) of this section, the provisions of this subpart are applicable to the following affected facilities in fixed or portable nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station</p> <p>(40 CFR 60.670(c) Facilities at the following plants are not subject to the provisions of this subpart:</p> <p style="padding-left: 40px;">(1) Fixed sand and gravel plants and crushed stone plants with capacities, as defined in 40 CFR 60.671 of 25 tons per hour or less</p> <p>(40 CFR 60.670(e)) An affected facility under paragraph (a) of this section that commences construction, modification, or reconstruction after August 31, 1983, is subject to the requirements of this part.</p>

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**D. LIMITATIONS, MONITORING AND REPORTING CONDITIONS**

Condition Number	Conditions													
D.7	<p><b>Emission Unit ID:</b> 02  <b>Equipment/Control Device ID:</b> All</p> <p>(40 CFR 60 Subparts A and OOO) In accordance with 40 CFR 60.672(b), affected facilities must meet the fugitive emission limits and compliance requirements in Table 3 of this subpart within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 40 CFR 60.11. The requirements in Table 3 of this subpart apply for fugitive emissions from affected facilities without capture systems and for fugitive emissions escaping capture systems.</p> <p>(40 CFR 60.672(d) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this section.</p> <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"></td> <td style="width: 25%; text-align: center;"><b>For</b></td> <td style="width: 25%; text-align: center;"><b>The owner or operator must meet the following fugitive emissions limit for grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility</b></td> <td style="width: 25%; text-align: center;"><b>The owner or operator must meet the following fugitive emissions limit for crushers at which a capture system is not used</b></td> <td style="width: 30%; text-align: center;"><b>The owner or operator must demonstrate compliance with these limits by conducting</b></td> </tr> <tr> <td></td> <td style="vertical-align: top;">Affected facilities that commence construction, modification, or reconstruct on or after April 22, 2008</td> <td style="vertical-align: top; text-align: center;">7 percent opacity</td> <td style="vertical-align: top; text-align: center;">12 percent opacity</td> <td style="vertical-align: top;">An initial performance test according to 40 CFR 60.11 and 60.675; and Periodic inspections of water sprays according to 40CFR 60.674(b) and 60.676(b); Affected facilities controlled by water carryover from upstream water sprays that are inspected according to the requirements in 40 CFR 60.674(b) and 60.676(b) are exempt from this 5-year repeat testing requirement.</td> </tr> </table>					<b>For</b>	<b>The owner or operator must meet the following fugitive emissions limit for grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility</b>	<b>The owner or operator must meet the following fugitive emissions limit for crushers at which a capture system is not used</b>	<b>The owner or operator must demonstrate compliance with these limits by conducting</b>		Affected facilities that commence construction, modification, or reconstruct on or after April 22, 2008	7 percent opacity	12 percent opacity	An initial performance test according to 40 CFR 60.11 and 60.675; and Periodic inspections of water sprays according to 40CFR 60.674(b) and 60.676(b); Affected facilities controlled by water carryover from upstream water sprays that are inspected according to the requirements in 40 CFR 60.674(b) and 60.676(b) are exempt from this 5-year repeat testing requirement.
	<b>For</b>	<b>The owner or operator must meet the following fugitive emissions limit for grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility</b>	<b>The owner or operator must meet the following fugitive emissions limit for crushers at which a capture system is not used</b>	<b>The owner or operator must demonstrate compliance with these limits by conducting</b>										
	Affected facilities that commence construction, modification, or reconstruct on or after April 22, 2008	7 percent opacity	12 percent opacity	An initial performance test according to 40 CFR 60.11 and 60.675; and Periodic inspections of water sprays according to 40CFR 60.674(b) and 60.676(b); Affected facilities controlled by water carryover from upstream water sprays that are inspected according to the requirements in 40 CFR 60.674(b) and 60.676(b) are exempt from this 5-year repeat testing requirement.										

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D. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
D.8	<p><b>Emission Unit ID:</b> 02 <b>Equipment/Control Device ID:</b> All</p> <p>(40 CFR 60.675(c)(1)), In determining compliance with the particulate matter standards in 40 CFR 60.672(b), the owner or operator shall use Method 9 of Appendix A-4 of this part and the procedures in 40CFR 60.11, with the following additions:</p> <ul style="list-style-type: none"><li>(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).</li><li>(ii) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources ( e.g., road dust). The required observer position relative to the sun (Method 9 of Appendix A-4 of this part, Section 2.1) must be followed.</li><li>(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.</li></ul> <p>(40 CFR 60.675(c)(3)), When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR 60.672(b), the duration of the Method 9 (40 CFR part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 3 of this subpart must be based on the average of the five 6-minute averages.</p> <p>(40 CFR 60.676(f), The owner or operator of any affected facility 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 of this subpart, 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).</p>

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**D. LIMITATIONS, MONITORING AND REPORTING CONDITIONS**

Condition Number	Conditions
D.9	<p><b>Emission Unit ID:</b> 02  <b>Equipment/Control Device ID:</b> All</p> <p>(40 CFR 60.674(b)), The owner or operator of any affected facility for which construction, modification, or reconstruction commenced on or after April 22, 2008, that uses wet suppression to control emissions from the affected facility must perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The owner or operator must initiate corrective action within 24 hours and complete corrective action as expediently as practical if the owner or operator finds that water is not flowing properly during an inspection of the water spray nozzles. The owner or operator must record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in the logbook required under 40 CFR 60.676(b).</p> <p>(1) If an affected facility relies on water carryover from upstream water sprays to control fugitive emissions, then that affected facility is exempt from the 5-year repeat testing requirement specified in Table 3 of this subpart provided that the affected facility meets the criteria in paragraphs (b)(1)(i) and (ii) of this section:</p> <p>(i) The owner or operator of the affected facility conducts periodic inspections of the upstream water spray(s) that are responsible for controlling fugitive emissions from the affected facility. These inspections are conducted according to paragraph (b) of this section and 40 CFR 60.676(b)</p> <p>(ii) The owner or operator of the affected facility designates which upstream water spray(s) will be periodically inspected at the time of the initial performance test required under 40 CFR 60.11 of this part and 40 CFR 60.675 of this subpart.</p> <p>(2) If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry required under 40 CFR 60.676(b) must specify the control mechanism being used instead of the water sprays.</p> <p>(40 CFR 60.676(b)(1)), Owners or operators of affected facilities for which construction, modification, or reconstruction commenced on or after April 22, 2008, must record each periodic inspection required under 40 CFR 60.674(b), 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 Department upon request.</p>

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**D. LIMITATIONS, MONITORING AND REPORTING CONDITIONS**

Condition Number	Conditions
D.10	<p><b>Emission Unit ID:</b> 02  <b>Equipment/Control Device ID:</b> All</p> <p>(40 CFR 60.670(d)(1)), when an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in 40 CFR 60.671, having the same function as the existing facility, and there is no increase in the amount of emissions, the new facility is exempt from the provisions of 40 CFR 60.672, 60.674, and 60.675 except as provided for in paragraph (d)(3) of this section.</p> <p>(2) An owner or operator complying with paragraph (d)(1) of this section shall submit the information required in 40 CFR 60.676(a).</p> <p>(3) An owner or operator replacing all existing facilities in a production line with new facilities does not qualify for the exemption described in paragraph (d)(1) of this section and must comply with the provisions of 40 CFR 60.672, 60.674 and 60.675.</p> <p>(40 CFR 60.676(a)) Each owner or operator seeking to comply with 40 CFR 60.670(d) shall submit to the Department the following information about the existing facility being replaced and the replacement piece of equipment.</p> <p>(1) For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station:            (i) The rated capacity in megagrams or tons per hour of the existing facility being replaced and            (ii) The rated capacity in tons per hour of the replacement equipment.</p> <p>(2) For a screening operation:            (i) The total surface area of the top screen of the existing screening operation being replaced and            (ii) The total surface area of the top screen of the replacement screening operation.</p> <p>(3) For a conveyor belt:            (i) The width of the existing belt being replaced and            (ii) The width of the replacement conveyor belt.</p> <p>(4) For a storage bin:            (i) The rated capacity in megagrams or tons of the existing storage bin being replaced and            (ii) The rated capacity in megagrams or tons of replacement storage bins.</p> <p>(40CFR60.676(g)) The owner/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 40CFR60.672(b) and the emission test requirements of 40CFR60.11 if it meets the 40CFR60 Subpart OOO applicability requirements.</p> <p>(40 CFR 60.676(h)), The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under this subpart.</p> <p>(40 CFR 60.676((i)) A notification of the actual date of initial startup of each affected facility shall be submitted to the Department</p> <p>(1) For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the owner or operator to the Department. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.</p>

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**D. LIMITATIONS, MONITORING AND REPORTING CONDITIONS**

Condition Number	Conditions
D.11	<p><b>Emission Unit ID:</b> All  <b>Equipment/Control Device ID:</b> Non-Enclosed Operations and Fugitive Dust</p> <p>(S.C. Regulation 61-62.5, Standard No. 4, Section X) All non-enclosed operations shall be conducted in such a manner that a minimum of particulate matter becomes airborne. In no case shall established ambient air quality standards be exceeded at or beyond the property line. The owner/operator of all such operations shall maintain dust control of the premises and any roadway owned or controlled by the owner/operator by paving or other suitable measures. Oil treatment is prohibited.</p> <p>(SC Regulation 61-62.6 Section III.a) Emissions of fugitive particulate matter shall be controlled in such a manner and to the degree that it does not create an undesirable level of air pollution.</p> <p>(SC Regulation 61-62.6 Section III.b) Restrictions and requirements may be contained in operating permits on a case-by-case basis that are deemed appropriate and necessary to control fugitive particulate matter in accordance with reasonably available control technology.</p> <p>(SC Regulation 61-62.6 Section III.c) Any method of materials handling which will generate fugitive particulate matter that is not fully described in the permit application shall not be used.</p> <p>Compliance with the above requirement shall be demonstrated by developing a facility-wide fugitive dust control plan for controlling fugitive emissions from process operations, truck traffic, storage piles, and anywhere else fugitive dust emissions can be generated. The plan shall be developed and submitted to the Department for approval 90 days prior to the start of operations. Once approved, the plan shall be kept and on-site. The plan shall contain at a minimum the following requirements:</p> <ol style="list-style-type: none"> <li>1. Water trucks or an approved dust control system shall be used to maintain fugitive emissions at a minimum.</li> <li>2. The plan shall address operating scenarios for water truck or dust control system failures or inadequacies.</li> <li>3. The owner/operator shall maintain a log that includes the dates the water trucks or dust control system did not operate and the alternative(s) dust control method used. The logs shall be maintained on site.</li> <li>4. Spillage and residual materials that have the potential for creating emissions problems shall be removed at an appropriate frequency to minimize levels of fugitive dust emissions.</li> <li>5. Written guidelines shall be developed for plant operators on how to handle opacity problems.</li> <li>6. Haul road speed limits shall be imposed where necessary.</li> <li>7. Sprinklers (i.e. along roads etc.) shall be kept in proper operational condition.</li> <li>8. The owner/operator shall perform daily visual emission checks on each Crusher, Screen, Conveyor and Storage Bin</li> <li>9. All water used for wet suppression shall be clarified or it shall be a clean source of water.</li> <li>10. The facility shall remind truck drivers of their responsibility and encourage them to comply with SC Code of Laws Sections 56-5-4100 and 56-5-4110 (which requires haul trucks transporting aggregate from all quarries to prevent the escape of materials loaded onto the vehicles) with signage located along the exit road.</li> <li>11. The facility shall asphalt pave from Rockton Thruway to the scales and 100 feet on the approach to the scales from the direction of the processing plant. The remainder of the access road (approximately 2,100 feet) shall be paved with crushed stone. Roads interior to the plant and product stockpile area shall be paved with crushed stone.</li> </ol>

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D. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
D.12	<p><b>Emission Unit ID:</b> 02,03 <b>Equipment/Control Device ID:</b> Wet Suppression System</p> <p>The owner/operator shall operate its wet suppression system at all times when emission sources controlled by it are in operation. The owner/operator may adjust and/or turn off the water sprays as necessary to accommodate weather conditions or elevated material moisture content (i.e. rainfall).</p> <p>When unfavorable metrological conditions (i.e., dry and very windy) create particulate matter emissions from the operation that exceed opacity limits, the owner or operator shall cease operation until the conditions have ceded or additional controls (e.g., extra water sprays, wind screens) have been added that bring the emissions to compliant levels.</p> <p>In case the wet suppression system is not operating properly, then a portable water spray system is acceptable for use until the permanent water spray system is back in proper operation. If a portable water system is not available then the process shall be shut down until the permanent water spray system is back in proper operation.</p> <p>The owner/operator shall perform weekly inspections of all wet suppression related equipment including a check that water is flowing to discharge spray nozzles in the wet suppression system. The owner/operator must initiate corrective action within 24 hours and complete corrective action as expediently as practical if the owner/operator finds that water is not flowing properly during an inspection of the water spray nozzles. The owner/operator must record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken in the logbook.</p>
D.13	<p><b>Emission Unit ID:</b> N/A <b>Equipment/Control Device ID:</b> Diesel Dewatering Pump</p> <p>This facility is subject to the provisions of 40 CFR Part 60, New Source Performance Standards General Provisions, Subparts A, Stationary Compression Ignition Internal Combustion Engines, Subpart IIII. Existing affected sources shall comply with the applicable provisions by the compliance date specified in Subparts IIII. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted.</p>
D.14	<p><b>Emission Unit ID:</b> All <b>Equipment/Control Device ID:</b> Facility-Wide</p> <p>(S.C. Regulation 61-62.1, Section II.G and Section II.E) This facility is a potential major source for PM and PM<sub>10</sub>, emissions. The facility has agreed to federally enforceable operating limitations to limit its potential to emit to less than 250 tons per year for PM emissions to avoid PSD and less than 100 tons per year for PM<sub>10</sub> emissions to avoid Title V.</p> <p>The owner/operator shall show compliance with these limits by operating its control devices in accordance with the conditions of this permit. The logs required in this permit shall be maintained on site. However, in the incident of enforcement actions or complaints, these logs shall be reported annually.</p>

E. RESERVED

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**F. AMBIENT AIR STANDARDS REQUIREMENTS**

Condition Number	Condition
F.1	<p>Air dispersion modeling (or other method) has demonstrated that this facility's operation will not interfere with the attainment and maintenance of any state or federal ambient air standard. Any changes in the parameters used in this demonstration may require a review by the facility to determine continuing compliance with these standards. These potential changes include any decrease in stack height, decrease in stack velocity, increase in stack diameter, decrease in stack exit temperature, increase in building height or building additions, increase in emission rates, decrease in distance between stack and property line, changes in vertical stack orientation, and installation of a rain cap that impedes vertical flow. Parameters that are not required in the determination will not invalidate the demonstration if they are modified. The emission rates used in the determination are listed in Attachment - Emission Rates for Ambient Air Standards of this permit. Higher emission rates may be administratively incorporated into Attachment - Emission Rates for Ambient Air Standards of this permit provided a demonstration using these higher emission rates shows the attainment and maintenance of any state or federal ambient air quality standard or with any other applicable requirement. Variations from the input parameters in the demonstration shall not constitute a violation unless the maximum allowable ambient concentrations identified in the standard are exceeded.</p> <p>The owner/operator shall maintain this facility at or below the emission rates as listed in Attachment - Emission Rates for Ambient Air Standards, not to exceed the pollutant limitations of this permit. Should the facility wish to increase the emission rates listed in Attachment - Emission Rates for Ambient Air Standards, not to exceed the pollutant limitations in the body of this permit, it may do so by the administrative process specified above. This is a State Only enforceable requirement.</p>

**G. NESHAP PERIODIC REPORTING SCHEDULE SUMMARY**

NESHAP Part	NESHAP Subpart	Compliance Monitoring Report Submittal Frequency	Reporting Period	Report Due Date
63	ZZZZ	N/A	N/A	N/A

1. This table summarizes only the periodic compliance reporting schedule. Additional reports may be required. See specific NESHAP Subpart for additional reporting requirements and associated schedule.
2. This reporting schedule does not supersede any other reporting requirements including but not limited to 40 CFR Part 60, 40 CFR Part 61, and/or 40 CFR Part 63. The MACT reporting schedule may be adjusted to coincide with the permit's reporting schedule with prior approval from the Department in accordance with 40 CFR 63.10.a.5. This request may be made 1 year after the compliance date for the associated MACT standard.
3. New engines and emergency generators are not required to submit reports unless they meet the criteria under 40 CFR 63.6650(h). Non-emergency engines are required to submit reports.

**H. NESHAP - CONDITIONS**

Condition Number	Condition
H.1	All NESHAP notifications and reports shall be sent to the Manager of the Air Toxics Section, South Carolina Department of Health and Environmental Control - Bureau of Air Quality.
H.2	<p>All NESHAP notifications and the cover letter to periodic reports shall be sent to the United States Environmental Protection Agency (US EPA) at the following address:</p> <p align="center"><b>US EPA, Region 4 Air, Pesticides and Toxics Management Division 61 Forsyth Street SW Atlanta, GA 30303</b></p>

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**H. NESHAP - CONDITIONS**

Condition Number	Condition
H.3	The Diesel Dewatering Pump is subject to the provisions of S.C. Regulation 61-62.63 and 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subpart A, General Provisions and Subpart ZZZZ National Emission Standards for Reciprocating Internal Combustion Engines. Existing affected sources shall be in compliance with the requirements of these Subparts on the compliance date, unless otherwise noted. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted.

**I. PERIODIC REPORTING SCHEDULE**

Compliance Monitoring Report Submittal Frequency	Reporting Period (Begins on the startup date of the source.)	Report Due Date
Annual	January-December April-March July-June October-September	January 30 April 30 July 30 October 30

Note: This reporting schedule does not supersede any federal reporting requirements including but not limited to 40 CFR Part 60, 40 CFR Part 61, and 40 CFR Part 63. All federal reports must meet the reporting time frames specified in the federal standard unless the Department or EPA approves a change.

**J. REPORTING CONDITIONS**

Condition Number	Condition
J.1	Reporting required in this permit, shall be submitted in a timely manner as directed in the Periodic Reporting Schedule of this permit.
J.2	All reports and notifications required under this permit shall be submitted to the person indicated in the specific condition at the following address: <b>2600 Bull Street Columbia, SC 29201</b> The contact information for the local EQC Regional office can be found at: <b><a href="http://www.scdhec.gov">http://www.scdhec.gov</a></b>
J.3	The owner/operator shall submit written notification to the Director of Engineering Services of the date construction is commenced, postmarked no later than 30 days after such date.
J.4	Unless elsewhere specified within this permit, all reports required under this permit shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality.

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**J. REPORTING CONDITIONS**

<b>Condition Number</b>	<b>Condition</b>
J.5	<p>(S.C. Regulation 61-62.1, Section II.J) For sources not required to have continuous emissions monitors, any malfunction of air pollution control equipment or system, process upset or other equipment failure which results in discharges of air contaminants lasting for one hour or more and which are greater than those discharges described for normal operation in the permit application shall be reported to the Department's local Environmental Quality Control Regional office within 24 hours after the beginning of the occurrence.</p> <p>The owner/operator shall also submit a written report within 30 days of the occurrence. This report shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality and shall include, at a minimum, the following:</p> <ol style="list-style-type: none"><li>1. The identity of the stack and/or emission point where the excess emissions occurred;</li><li>2. The magnitude of excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the excess emissions;</li><li>3. The time and duration of excess emissions;</li><li>4. The identity of the equipment causing the excess emissions;</li><li>5. The nature and cause of such excess emissions;</li><li>6. The steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunction;</li><li>7. The steps taken to limit the excess emissions; and,</li><li>8. Documentation that the air pollution control equipment, process equipment, or processes were at all times maintained and operated, to the maximum extent practicable, in a manner consistent with good practice for minimizing emissions.</li></ol>

**K. PERMIT EXPIRATION AND EXTENSION**

<b>Condition Number</b>	<b>Condition</b>
K.1	<p>(S.C. Regulation 61-62.1, Section II.A.4) Approval to construct shall become invalid if construction:</p> <ol style="list-style-type: none"><li>a. is not commenced within 18 months after receipt of such approval;</li><li>b. is discontinued for a period of 18 months or more; or</li><li>c. is not completed within a reasonable time as deemed by the Department.</li></ol> <p>The Department may extend the construction permit for an additional 18-month period upon a satisfactory showing that an extension is justified. This request must be made prior to the permit expiration.</p>
K.2.	<p>This provision does not apply to the time period between construction of the approved phases of a phased construction project; each phase must commence construction within 18 months of the projected and approved commencement date.</p>

**L. PERMIT TO OPERATE**

<b>Condition Number</b>	<b>Condition</b>
L.1	<p>(S.C. Regulation 61-62.1 Section II.F.2) The owner/operator or professional engineer in charge of the project shall certify that, to the best of his/her knowledge and belief and as a result of periodic observation during construction, the construction under application has been completed in accordance with the specifications agreed upon in the construction permit issued by the Department.</p>
L.2	<p>If construction is certified as provided in S.C. Regulation 61-62.1 Section II.F.2, the owner or operator, may operate the source in compliance with the terms and conditions of the construction permit until the operating permit is issued by the Department.</p>

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**L. PERMIT TO OPERATE**

<b>Condition Number</b>	<b>Condition</b>
L.3	<p>If construction is not built as specified in the permit application and associated construction permit(s), the owner/operator must submit to the Department a complete description of modifications that are at variance with the documentation of the construction permitting determination prior to commencing operation.</p> <p>Construction variances that would trigger additional requirements that have not been addressed prior to start of operation shall be considered construction without a permit.</p>
L.4	<p>(S.C. Regulation 61-62.1, Section II.F.3) The owner or operator shall submit a written request to the Director of the Engineering Services for a new or revised operating permit to cover any new or altered source postmarked no later than 15 days after the actual date of initial startup of each new or altered source.</p> <p>The written request for a new or revised operating permit must include, as a minimum, the following information:</p> <ul style="list-style-type: none"><li>i. A list of sources that were placed into operation.</li><li>ii. The actual date of initial startup of each new or altered source.</li></ul>

**M. RESERVED**

**N. GENERAL CONDITIONS**

<b>Condition Number</b>	<b>Condition</b>
N.1	<p>The permittee shall pay permit fees to the Department in accordance with the requirements of S.C. Regulation 61-30, Environmental Protection Fees.</p>
N.2	<p>In the event of an emergency, as defined in S.C. Regulation 61-62.1, Section II.L, the owner or operator shall demonstrate the affirmative defense of an emergency through properly signed, contemporaneous operating logs, and other relevant evidence that verify:</p> <ul style="list-style-type: none"><li>1. An emergency occurred, and the owner or operator can identify the cause(s) of the emergency;</li><li>2. The permitted source was at the time the emergency occurred being properly operated;</li><li>3. During the period of the emergency, the owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and</li><li>4. The owner or operator gave a verbal notification of the emergency to the Department within 24 hours of the time when emission limitations were exceeded, followed by a written report within 30 days. The written report shall include, at a minimum, the information required by S.C. Regulation 61-62.1, Section II.J.1.c.i through viii. The written report shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.</li></ul> <p>In any enforcement action, the owner or operator seeking to establish the occurrence of an emergency has the burden of proof. This provision is in addition to any emergency, or upset provision contained in any applicable requirement.</p>
N.3	<p>(S.C. Regulation 61-62.1, Section II.O) Upon presentation of credentials and other documents as may be required by law, the owner or operator shall allow the Department or an authorized representative to perform the following:</p> <ul style="list-style-type: none"><li>1. Enter the facility where emissions-related activity is conducted, or where records must be kept under the conditions of the permit.</li><li>2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit.</li><li>3. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.</li><li>4. As authorized by the Federal Clean Air Act and/or the S.C. Pollution Control Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.</li></ul>

## ATTACHMENT - Emission Rates for Ambient Air Standards

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The emission rates listed herein are not considered enforceable limitations but are used to evaluate ambient air quality impact. Until the Department makes a determination that a facility is causing or contributing to an exceedance of a state or federal ambient air quality standard, increases to these emission rates are not in themselves considered violations of these ambient air quality standards (see Modeling Requirements).

<b>STANDARD NO. 2 - MODELED AAQS EMISSION RATES (LBS/HR)</b>							
<b>STACK ID</b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>	<b>SO<sub>2</sub></b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>Lead</b>	<b>HF</b>
V1-CR1-Crushing Station No. 1 (Jaw)	0.4320	0.0800	--	--	--	--	--
V2-TP1-Transfer Point No. 1	0.0370	0.0100	--	--	--	--	--
V3-TP2&3-Transfer Points 2 and 3	0.0740	0.0210	--	--	--	--	--
V4-TP4-Transfer Point No. 4	0.0230	0.0070	--	--	--	--	--
V5-S1-Screening Station S1 (Plan ID 8)	0.3700	0.0250	--	--	--	--	--
V6-TP5-Transfer Point No. 5	0.0230	0.0070	--	--	--	--	--
V7-TP6-Transfer Point No. 6	0.0050	0.0010	--	--	--	--	--
V8-TP7-Transfer Point No. 7	0.0050	0.0010	--	--	--	--	--
V9-CR2-Crushing Station No. 2 (Secondary) (Plan ID 7)	0.2160	0.0400	--	--	--	--	--
V10-TP8-Transfer Point No. 8	0.0180	0.0050	--	--	--	--	--
V11-TP9-Transfer Point No. 9	0.0005	0.0001	--	--	--	--	--
V12-TP10-Transfer Point No. 10	0.0005	0.0001	--	--	--	--	--
V13-TP11-Transfer Point No. 11	0.0180	0.0050	--	--	--	--	--
V14-S2-Screening Station S2 (Plan ID 14)	0.2890	0.0200	--	--	--	--	--
V15-TP12-Transfer Point No. 12	0.0180	0.0050	--	--	--	--	--
V16-CR3-Crushing Station No. 3 (Tertiary) (Plan ID13)	0.2110	0.0390	--	--	--	--	--
V17-TP13-Transfer Point No. 13	0.0180	0.0050	--	--	--	--	--
V18-TP14-Transfer Point No. 14	0.0020	0.0010	--	--	--	--	--
V19-TP15-Transfer Point No. 15	0.0020	0.0010	--	--	--	--	--
V20-TP16-Transfer Point No. 16	0.0010	0.0003	--	--	--	--	--
V21-TP17-Transfer Point No. 17	0.0010	0.0003	--	--	--	--	--
V22-S3-Screening Station No. 4 (Quaternary) (Plan ID 21)	0.2370	0.0160	--	--	--	--	--

**ATTACHMENT - Emission Rates for Ambient Air Standards**

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<b>STANDARD NO. 2 - MODELED AAQS EMISSION RATES (LBS/HR)</b>							
<b>STACK ID</b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>	<b>SO<sub>2</sub></b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>Lead</b>	<b>HF</b>
V23-TP18-Transfer Point No. 18	0.0150	0.0040	--	--	--	--	--

<b>STANDARD NO. 2 - MODELED AAQS EMISSION RATES (LBS/HR)</b>							
<b>STACK ID</b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>	<b>SO<sub>2</sub></b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>Lead</b>	<b>HF</b>
V24-CR4-Crushing Station No. 4 (Quaternary) (Plan ID 21)	0.3840	0.0220	--	--	--	--	--
V25-TP19-Transfer Point No. 19	0.0150	0.0040	--	--	--	--	--
V26-TP20-Transfer Point No. 20	0.0040	0.0010	--	--	--	--	--
V27-TP21-Transfer Point No. 21	0.0040	0.0010	--	--	--	--	--
V28-TP22-Transfer Point No. 22	0.0030	0.0010	--	--	--	--	--
V29-TP23-Transfer Point No. 23	0.0030	0.0010	--	--	--	--	--
V30-TP24-Transfer Point No. 24	0.0070	0.0020	--	--	--	--	--
V31-S4-Screening Station S4 (Plan ID 31)	0.3520	0.0530	--	--	--	--	--
V32-TP25-Transfer Point No. 25	0.0070	0.0020	--	--	--	--	--
V33-TP26-Transfer Point No. 26	0.0002	0.0003	--	--	--	--	--
V34-TP27-Transfer Point No. 27	0.0010	0.0003	--	--	--	--	--
V35-TP28-Transfer Point No. 28	0.0030	0.0008	--	--	--	--	--
V36-TP29-Transfer Point No. 29	0.0030	0.0008	--	--	--	--	--
V37-TP30-Transfer Point No. 30	0.0040	0.0010	--	--	--	--	--
V38-TP31-Transfer Point No. 31	0.0040	0.0010	--	--	--	--	--
V39-Tload-Final Product Truck Loading	0.0800	0.0120	--	--	--	--	--

PM2.5 emissions are exempt from air dispersion modeling as less than 1.0 lb/hr. This modeling demonstration was completed to address public concerns. 11/2014