



North Carolina Department of Environment and Natural Resources  
Division of Air Quality

Michael F. Easley, Governor

William G. Ross, Jr., Secretary  
B. Keith Overcash, P.E., Director

October 5, 2007

Mr. J. R. Holton  
Secretary-Treasurer  
Lee Brick and Tile Company, Inc.  
PO Box 1027  
Sanford, North Carolina 27331

Dear Mr. Holton:

SUBJECT: Air Quality Permit No. 03464T24  
Facility ID: 5300024  
Lee Brick and Tile, Incorporated  
Sanford, North Carolina  
Lee County  
Fee Class: Title V

In accordance with your completed Air Quality Permit Application for administrative amendment of a Title V permit received August 13, 2007, we are forwarding herewith Air Quality Permit No. 03464T24 to Lee Brick and Tile Company, Inc., 3704 Hawkins Avenue, Sanford, North Carolina authorizing the construction and operation, of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 2Q .0503(8) have been listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3 of Part I. **The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.**

**The Permittee shall file a Title V Air Quality Permit Application pursuant to 15A NCAC 2Q .0504 for the air emission sources (ID Nos. ES-P1-SA-1, ES-P1-SA-2, ES-P1-SA-3, ES-P2-SA-1, ES-P2-SA-2, ES-P2-SA-3, ES-K1, and ES-K2) and associated control devices (ID Nos. CD-BMR1BH and CD-BMR2BH) on or before 12 months after commencing operation. [Note: the design specifications for CD-BMR3BH and CD-BMR3BH were changed in Permit application 5300024.05C as a 501(c)(2) submitted on December 12, 2005.] The Permittee shall file a Title V Air Quality Permit Application pursuant to 15A NCAC 2Q .0504 for the air emission sources (ID Nos. ES-K4, ES-G4-C-1, ES-G4-C-2, ES-C4-C-3, ES-G4-C-4, ES-G4-C-5, ES-G4-C-6, ES-G4-C-7, ES-G4-C-8, ES-G4-C-9, ES-G4-C-10, ES-F-4, ES-VGF-4, ES-C-4, ES-G-4, ES-S-4A, ES-S-4B) and control devices (ID Nos. CD- K4-SCR, CD-BMR2BH, CD-BMR3BH, and CD-BMR4BH) on or before 12 months after commencing operation.**

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Permitting Section

1641 Mail Service Center, Raleigh, North Carolina 27699-1641  
2728 Capital Blvd., Raleigh, North Carolina 27604  
Phone: 919-715-6235 / FAX 919-733-5317 / Internet: [www.ncair.org](http://www.ncair.org)

One  
North Carolina  
*Naturally*

Mr. J. R. Holton

October 5, 2007

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As the designated responsible official it is your responsibility to review, understand, and abide by all of the terms and conditions of the attached permit. It is also your responsibility to ensure that any person who operates any emission source and associated air pollution control device subject to any term or condition of the attached permit reviews, understands, and abides by the condition(s) of the attached permit that are applicable to that particular emission source.

If any parts, requirements, or limitations contained in this Air Quality Permit are unacceptable to you, you have the right to request a formal adjudicatory hearing within 30 days following receipt of this permit, identifying the specific issues to be contested. This hearing request must be in the form of a written petition, conforming to NCGS (North Carolina General Statutes) 150B-23, and filed with **both** the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, North Carolina 27699-6714 and the Division of Air Quality, Permitting Section, 1641 Mail Service Center, Raleigh, North Carolina 27699-1641.

The form for requesting a formal adjudicatory hearing may be obtained upon request from the Office of Administrative Hearings. Please note that this permit will be stayed in its entirety upon receipt of the request for a hearing. Unless a request for a hearing is made pursuant to NCGS 150B-23, this Air Quality Permit shall be final and binding 30 days after issuance.

You may request modification of your Air Quality Permit through informal means pursuant to NCGS 150B-22. This request must be submitted in writing to the Director and must identify the specific provisions or issues for which the modification is sought. Please note that this Air Quality Permit will become final and binding regardless of a request for informal modification unless a request for a hearing is also made under NCGS 150B-23.

**The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to the emission source(s) and air pollution control device(s) described in this permit must be covered under an Air Quality Permit issued by the Division of Air Quality prior to construction unless the Permittee has fulfilled the requirements of GS 143-215-108A(b) and received written approval from the Director of the Division of Air Quality to commence construction. Failure to receive an Air Quality Permit or written approval prior to commencing construction is a violation of GS 143-215.108A and may subject the Permittee to civil or criminal penalties as described in GS 143-215.114A and 143-215.114B.**

This Air Quality Permit shall be effective from October 5, 2007 until January 31, 2008, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

Should you have any questions concerning this matter, please contact Mr. Jefferson (Jeff) T. Twisdale, E.I.T. at (919) 715-6260.

Sincerely yours,

Donald R. van der Vaart, Ph.D., P.E.,  
Chief

Enclosure

c: Gregg Worley, EPA Region 4  
Raleigh Regional Office  
Central Files

State of North Carolina,  
Department of Environment,  
and Natural Resources



Division of Air Quality

## AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
03464T24	03464T23	October 5, 2007	January 31, 2008

Until such time as this permit expires or is modified or revoked, the below named Permittee is permitted to construct and operate the emission source(s) and associated air pollution control device(s) specified herein, in accordance with the terms, conditions, and limitations within this permit. This permit is issued under the provisions of Article 21B of Chapter 143, General Statutes of North Carolina as amended, and Title 15A North Carolina Administrative Codes (15A NCAC), Subchapters 2D and 2Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 2Q, the Permittee shall not construct, operate, or modify any emission source(s) or air pollution control device(s) without having first submitted a complete Air Quality Permit Application to the permitting authority and received an Air Quality Permit, except as provided in this permit.

**Permittee:** **Lee Brick and Tile Company, Inc.**

**Facility ID:** **5300024**

**Facility Site Location:** **3704 Hawkins Avenue**  
**City, County, State, Zip:** **Sanford, Lee County, North Carolina 27331**

**Mailing Address:** **PO Box 1027**  
**City, State, Zip:** **Sanford, North Carolina 27331**

**Application Number:** **5300024.07C**  
**Complete Application Date:** **August 13, 2007**

**Primary SIC Code:** **3251**  
**Division of Air Quality,** **Raleigh Regional Office**  
**Regional Office Address:** **3800 Barrett Drive**  
**Raleigh, North Carolina 27609**

Permit issued this the 5<sup>th</sup> day of October 2007

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Donald R. van der Vaart, Ph.D., P.E., Chief, Air Permits Section  
By Authority of the Environmental Management Commission

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ATTACHMENT

List of Acronyms

## Air Permit 03464T24 Attachment

The following changes were made to Air Permit 03464T23 and incorporated into Air Permit 03464T24.

Old Page	New Page	Part	Section	Change
~	~	~	Table of Contents	Removed Section 2.3 – MACT Affected Emission Source(s) Specific Limitations and Conditions
1	1	~	~	Updated permit numbers and dates
3	3	I	1	Removed MACT designation to kiln (ES-K4) from Table of Emission Sources and Control Devices
7	7	I	2.1.A	Removed MACT applicability to kiln (ES-K4) and MACT avoidance limit for kilns (ES-K1 and ES-K3) from Limits Table
8-9	~	I	2.1.A.4.	Removed MACT avoidance limit for kilns (ES-K1 and ES-K3)
21	20	I	2.2.A.2.	Revised annual toxic air pollutant emission limits for arsenic, benzene and cadmium due to revised modeling results
22	21		2.2.A.2. a. & b.	Added limitations, monitoring and recordkeeping for the DLA installed on kiln (ES-K4) to ensure compliance w/ air toxics rule
25-37	~	I	2.2 A.3.	Removed MACT specific condition for kiln (ES-K4)
46	32	II	1(Table 1)	Removed kilns (ES-K1 and ES-K3) and MACT avoidance reference from Table of Emission Sources and Control Sources
47	33	II	1(Table 2)	Removed MACT designation to kiln (ES-K4) from Table of Emission Sources and Control Devices
48	34	II	2.1	Updated regulatory citation list
51	37	II	2.1.9	Removed MACT Notification, Reporting, and Test requirements for kiln (ES-K4) and moved up existing condition no. 10 to no. 9

**Air Permit 03464T24**  
**Attachment**  
**Insignificant Activities as per 15A NCAC 2Q .0503(8)**

Building	ID Number	Source Description	Basis for Insignificance
Clay Shed	IS-G-C-8	conveyors	Potential emissions do not exceed 5 tons per year of criteria pollutants or 1,000 pounds per year of any HAPs.
Grinding Room	IS-GRF-1 IS-GRF-3	grinding room feeder for Plant 1 and 2 grinding room feeder for Plant 3	Potential emissions do not exceed 5 tons per year of criteria pollutants or 1,000 pounds per year of any HAPs.
Reclaimer Building for Plant 1&2	IS-RM-COC IS-RM-Rec 1 IS-RM-F-Aux IS-RM-CB 1 IS-RM-CB 2 IS-RM-F #1 IS-RM-F #2 IS-RM-C-1 #1 IS-RM-C-1 #2 IS-RM-C-2 #1 IS-RM-C-2 #2	cross over conveyor reclaimer #1 raw material feeder Plant #2 collection belt #1 collection belt #2 feeder #1 feeder #2 raw material conveyor 1 to Plant #1 raw material conveyor 1 to Plant #2 raw material conveyor 2 to Plant #1 raw material conveyor 2 to Plant #2	Potential emissions do not exceed 5 tons per year of criteria pollutants or 1,000 pounds per year of any HAPs.
Reclaimer for Plant 3	IS-RC IS-G2-C-11	reclaimer #2 collection belt for reclaimer	Potential emissions do not exceed 5 tons per year of criteria pollutants or 1,000 pounds per year of any HAPs
Outside	IS-G2-C-12 IS-F-3 IS-G2-C-13	conveyor from G2-C-11 to feeder feeder conveyor from feeder to pugmill	Potential emissions do not exceed 5 tons per year of criteria pollutants or 1,000 pounds per year of any HAPs.
Making Room for Plant 1	IS-P1-1 IS-P1-EXT IS-P1-C1  IS-P1-C2  IS-P1-WC1 through WC6  IS-P1-SM-1 IS-P1-SP	chute with material from RM-C-2 #1 pugmill/extruder conveyor 1 from extruder to settling machine conveyor 2 from extruder to settling machine waste belt conveyors 1 through 6  sand mixer sand pile	Potential emissions do not exceed 5 tons per year of criteria pollutants or 1,000 pounds per year of any HAPs.

Building	ID Number	Source Description	Basis for Insignificance
Making Room for Plant 2	IS-P2-1 IS-P2-EXT IS-P2-C1  IS-P2-C2  IS-P2-WC1 through WC3  IS-P2-SM-1 IS-P1-SP	chute with material from RM-C-2 #2 pugmill/extruder conveyor 1 from extruder to settling machine conveyor 2 from extruder to settling machine waste belt conveyors 1 through 3  sand mixer sand pile	Potential emissions do not exceed 5 tons per year of criteria pollutants or 1,000 pounds per year of any HAPs.
Making Room for Plant 3	IS-P3-1 IS-P3-EXT IS-P3-C1  IS-P3-C2  IS-P3-WC1 through WC4  IS-P3-SM-1 IS-P3-SP	chute with material from G2-C-13 pugmill/extruder conveyor 1 from extruder to settling machine conveyor 2 from extruder to settling machine waste belt conveyors 1 through 4  sand mixer sand pile	Potential emissions do not exceed 5 tons per year of criteria pollutants or 1,000 pounds per year of any HAPs.
Located outside of Plant 3	IS-VS3	kiln vacuum system with an inherent fabric filter	Potential emissions do not exceed 5 tons per year of criteria pollutants or 1,000 pounds per year of any HAPs.
Located outside of Plant 2	IS-VS2	kiln vacuum system with an inherent fabric filter	Potential emissions do not exceed 5 tons per year of criteria pollutants or 1,000 pounds per year of any HAPs.
Located outside of Plant 1	IS-VS1	kiln vacuum system with an inherent fabric filter	Potential emissions do not exceed 5 tons per year of criteria pollutants or 1,000 pounds per year of any HAPs.

Building	ID Number	Source Description	Basis for Insignificance
Storage Tanks	IS-ST-1 through IS-ST-3	three 1,000 gallon brick oil tanks	Potential emissions do not exceed 5 tons per year of criteria pollutants or 1,000 pounds per year of any HAPs.
	IS-ST-4	one 250 gallon brick oil tank	
	IS-ST-5 through IS-ST-7	three 250 gallon waste oil tanks	
	IS-ST-8 through IS-ST-10	three 30,000 gallon propane tanks	
	IS-ST-11 and IS-ST-12	two 500 gallon gasoline tanks	
	IS-ST-13 and IS-ST-14	two 1,000 gallon diesel tanks	
	IS-ST-15	one 10,000 gallon diesel tank	
	IS-ST-16 and IS-ST-17	two 150 gallon hydraulic oil tanks	
	IS-ST-18	one 250 gallon heating oil tank	
Waste Material Feeders	IS-WMF-1 IS-WMF-2 IS-WMF-3	One each in Plant Nos. 1, 2, and 3 making rooms	Potential emissions do not exceed 5 tons per year of criteria pollutants or 1,000 pounds per year of any HAPs.
Brick Dryers	IS-BD1 IS-BD2 IS-BD3	Utilizing heat from the cooling zone of each of three brick kilns	Potential emissions do not exceed 5 tons per year of criteria pollutants or 1,000 pounds per year of any HAPs.
Propane Vaporizer	IS-PV	2 million Btu per hour	Potential emissions do not exceed 5 tons per year of criteria pollutants or 1,000 pounds per year of any HAPs.
Conveyors and Feeders in ground material storage	IS-RM4-Rec	Material Reclaimer	Potential emissions do not exceed 5 tons per year of criteria pollutants or 1,000 pounds per year of any HAPs.
	IS-RM4-C-1	30" Reclaimer Conveyor	
	IS-RMS-C-2	30" belt conveyor	
	IS-RM4-F	Even clay feeder	
	IS-RMS-C-3	30" belt conveyor	
Conveyors, pugmill, coatings pile and mixer in the new making room	IS-P4-PPM	Prepugmill	Potential emissions do not exceed 5 tons per year of criteria pollutants or 1,000 pounds per year of any HAPs.
	IS-RM4-C-4	30" belt conveyor	
	IS-P4-EXT	Pugmill/extruder	
	IS-P4-OB	Belt conveyor from extruder to setter	
	IS-P4-SET	Brick setter	
	IS-P4-WC-1	Waste belt conveyor 1	
	IS-P4-WC-2	Waste belt conveyor 2	

Building	ID Number	Source Description	Basis for Insignificance
continued	IS-P4-WC-3	Waste belt conveyor 3	
	IS-P4-WC-4	Waste belt conveyor 4	
	IS-P4-WC-5	Waste belt conveyor 5	
	IS-P4-WC-6	Waste belt conveyor 6	
	IS-WMF-4	Waste material feeder	
	IS-P4-CM	Coatings mixer	
	IS-P4-CP	Coatings pile	
	IS-VS4	New vacuum system for Kiln 4	Potential emissions do not exceed 5 tons per year of criteria pollutants or 1,000 pounds per year of any HAPs.
	IS-PV2	Propane Vaporizer	Potential emissions do not exceed 5 tons per year of criteria pollutants or 1,000 pounds per year of any HAPs.
	IS-BD-4	Brick Dryer utilizing heat from the cooling zone of Kiln 4	Potential emissions do not exceed 5 tons per year of criteria pollutants or 1,000 pounds per year of any HAPs.
Storage tanks with brick oil, diesel, gasoline, waste oil and hydraulic oil	IS-ST-4-BO	1000 gallon brick oil tank	Potential emissions do not exceed 5 tons per year of criteria pollutants or 1,000 pounds per year of any HAPs.
	IS-ST-4-DIE	1000 gallon diesel tank	
	IS-ST-4-GAS	500 gallon gasoline tank	
	IS-ST-4-WO	250 gallon waste oil tank	
	IS-ST-4-HY	150 gallon hydraulic oil tank	

# PART I

The Division of Air Quality (DAQ), the United States Environmental Protection Agency (EPA), and citizens as defined under the Federal Clean Air Act have the authority to enforce the terms, conditions, and limitations contained in Part I of this permit unless otherwise specified.

Under Title 15A NCAC 2Q, the operation of emission source(s) and associated air pollution control device(s) and appurtenances listed in Part I of this permit is based on plans, specifications, operating parameters, and other information as submitted in the Air Quality Permit Application.

## SECTION 1- PERMITTED EMISSION SOURCE (S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE (S) AND APPURTENANCES

The following table contains a summary of all permitted emission sources and associated air pollution control devices and appurtenances:

<b>Emission Source ID No.</b>	<b>Emission Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
ES-K1**,****	One natural gas/propane/butane-fired brick tunnel kiln (22.5 million Btu per hour heat input, 12.24 tons per hour maximum fired brick production rate)	N/A	N/A
ES-K2,****	One natural gas/propane/butane-fired brick tunnel kiln (22.5 million Btu per hour heat input, 9.64 tons per hour maximum fired brick production rate)	N/A	N/A
ES-K3**,****	One natural gas/propane/butane-fired brick tunnel kiln (30 million Btu per hour heat input, 12.67 tons per hour maximum fired brick production rate)	N/A	N/A
ES-K4***	One natural gas/propane/butane-fired brick tunnel kiln (41 million Btu per hour heat input, 13.5 tons per hour maximum fired brick production rate)	CD-K4-SCR	Dry Lime Adsorber (DLA)

<b>Emission Source ID No.</b>	<b>Emission Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
<p><b>NSPS Subpart 000</b></p> <p>F-C-1*</p> <p>G-C-1, G-C-2, G-C-3, G-C-5, G-C-6, G-C-7, and RM-SC</p> <p>C-1*</p> <p>S-1b</p> <p>G-C-4</p> <p>S-1a</p> <p>G-1</p> <p>VGF-1*</p>	<p><b>Plant 1 and 2 NSPS-Affected Grinding and Screening Operations (175 tons per hour capacity) consisting of:</b></p> <p>One belt conveyor (36 inches in width)</p> <p>Seven belt conveyors (30 inches in width each)</p> <p>One primary roll crusher (21 inches in width by 36 inches in length)</p> <p>One scalping screen (4 feet in width by 10 feet in length)</p> <p>One conveyor belt (42 inches in width)</p> <p>Four finishing screens (5 feet in width by 8 feet in length each)</p> <p>One hammermill (175 tons per hour capacity)</p> <p>one vibrating grizzly feeder (175 tons per hour capacity)</p>	N/A	N/A
<p><b>NSPS Subpart 000</b></p> <p>G2-C-1, G2-C-2, G2-C-3, and G2-C-5 through G2-C-10</p> <p>C-2</p> <p>S-2b</p> <p>G2-C-4</p> <p>S-2a</p> <p>G-2</p> <p>F-C-2</p>	<p><b>Plant 3 NSPS-affected grinding and screening operations (175 tons per hour capacity) consisting of:</b></p> <p>Nine belt conveyors (30 inches in width each)</p> <p>One primary roll crusher (21 inches in width by 36 inches in length)</p> <p>One scalping screen (4 feet in width by 10 feet in length)</p> <p>One conveyor belt (42 inches in width)</p> <p>Four finishing screens (5 feet in width by 8 feet in length each)</p> <p>One hammermill (175 tons per hour capacity)</p> <p>One conveyor belt (36 inches in width)</p>	N/A	N/A

<b>Emission Source ID No.</b>	<b>Emission Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
<p><b>NSPS Subpart OOO</b></p> <p>G4-C-1*** G4-C-2*** C4-C-3***</p> <p>G4-C-4*** G4-C-5*** G4-C-6*** G4-C-7*** G4-C-8*** G4-C-9*** G4-C-10***</p> <p>F-4***</p> <p>VGF-4***</p> <p>C-4***</p> <p>G-4***</p> <p>S-4A***</p> <p>S-4B***</p>	<p><b>Plant 4 NSPS-affected grinding and screening operations (175 tons per hour capacity) consisting of:</b></p> <p>36" Belt Conveyor 30" Oversize belt conveyor 30" Conveyor from scalping screen to hammermill (course material)</p> <p>48" Rough service "Picking Table Conveyor" 36" Belt conveyor 30" Fines conveyor 30" Belt conveyor 30" Belt conveyor 30" Inclined conveyor 30" Shuttle belt conveyor</p> <p>Dump hopper</p> <p>Trio 40"x16" vibrating grizzly</p> <p>Trio CT series 24"x36" overhead eccentric jaw crusher</p> <p>Basic "Super" Pulv-O-Pactor</p> <p>Four "Clayshaker" Model HX 5'x10' single deck vibrating screens</p> <p>Simplicity 5'x16' double deck screen Model 95110BX</p>	<p>N/A</p>	<p>N/A</p>
ES-CD*	Coatings dryer	N/A	N/A
ES-MR*	Mix room	CD-MRBH*	Bagfilter
<p>ES-P3-SA-1*</p> <p>ES-P3-SA-2*</p> <p>ES-P3-SA-3*</p>	<p>Three sand application units of Plant 3 Making Room</p>	<p>CD-BMR3BH*,***</p>	<p>Bagfilter, Maximum air to cloth ratio 3.20 ACFM/square feet filter surface area</p>
<p>ES-P1-SA-1**</p> <p>ES-P1-SA-2**</p> <p>ES-P1-SA-3**</p>	<p>Three sand application units of Plant 1 Making Room</p>	<p>CD-BMR1BH**</p>	<p>Bagfilter, Maximum air to cloth ratio 3.20 ACFM/square feet filter surface area</p>

<b>Emission Source ID No.</b>	<b>Emission Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
ES-P2-SA-1** ES-P2-SA-2** ES-P2-SA-3**	Three sand application units of Plant 2 Making Room	CD-BMR2BH**,** *	Bagfilter, Maximum air to cloth ratio 3.20 ACFM/square feet filter surface area
ES-P4-SA-1*** ES-P4-SA-2*** ES-P4-SA-3*** ES-P4-SA-4***	four sand application units of Plant 4 brick making room	CD-BMR4BH***	Bagfilter, Maximum air to cloth ratio 4.80 ACFM/square feet filter surface area

\* These sources (ID Nos. F-C-1, C-1, VGF-1, ES-CD, ES-MR, ES-P3-SA-1, ES-P3-SA-2, ES-P3-SA-3) and associated control devices (ID Nos. CD-MRBH and CD-BMR3BH) are permitted under Part II Construction Permit as a 502(b)(10) change per NCAC 2Q .0523. The permit shield described in General Condition R does not apply. **[Note: the design specifications for CD-BMR3BH were changed in Permit application 5300024.05C as a 501(c)(2) submitted on December 12, 2005.]**

\*\* These sources (ID Nos. ES-P1-SA-1, ES-P1-SA-2, ES-P1-SA-3, ES-P2-SA-1, ES-P2-SA-2, ES-P2-SA-3, ES-K1, and ES-K2) and associated control devices (ID Nos. CD-BMR1BH and CD-BMR2BH) are permitted under Part II Construction Permit as a 15A NCAC 2Q .0501(c)(2) modification. The permit shield described in General Condition R of Part I of the permit does not apply to these sources. [Note: the design specifications for CD-BMR2BH were changed in Permit application 5300024.05C as a 501(c)(2) submitted on December 12, 2005.]

\*\*\* These sources (ID Nos. ES-K4, G4-C-1, G4-C-2, C4-C-3, G4-C-4, G4-C-5, G4-C-6, G4-C-7, G4-C-8, G4-C-9, G4-C-10, F-4, VGF-4, C-4, G-4, S-4A, S-4B, ES-P4-SA-1, ES-P4-SA-2, ES-P4-SA-3, and ES-P4-SA-4, and associated control devices (ID Nos. CD-BMR2BH, CD-BMR3BH, CD-BMR4BH, and CD-K4-SCR) are permitted under Part II Construction Permit as a 15A NCAC 2Q .0501(c)(2) modification. The permit shield described in General Condition R of Part I of the permit does not apply to these sources.

\*\*\*\* These sources (ID Nos. ES-K1, ES-K2, and ES-K3) were permitted for butane firing in accordance with permit application 5300024.05C as a 15A NCAC 2Q .0501(c)(2) modification. The permit shield described in General Condition R of Part I of the permit does not apply to these sources for this modification.

## SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

### 2.1- Emission Source(s) and Control Device(s) Specific Limitations and Conditions

The emission source(s) and associated air pollution control device(s) and appurtenances listed below are subject to the following specific terms, conditions, and limitations, including the testing, monitoring, recordkeeping, and reporting requirements as specified herein:

- A. Four natural gas/propane/butane-fired brick tunnel kilns (ID No. ES-K1, 12.24 tons per hour maximum fired brick production rate, 22.5 million Btu per hour maximum heat input rate; ID No. ES-K2, 9.64 tons per hour maximum fired brick production rate, 22.5 million Btu per hour maximum heat input rate, ID No. ES-K3, 12.67 tons per hour maximum fired brick production rate, 30 million Btu per hour maximum heat input rate, and ID No. ES-K4, 13.5 tons per hour maximum fired brick production rate, 41 million Btu per hour maximum heat input rate)**

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
particulate matter including PM <sub>10</sub>	$E=4.10P^{0.67}$ Where: E = allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 2D .0515
particulate matter (PM <sub>10</sub> )	Facility wide: See section 2.2 A.4	15A NCAC 2Q .0317 Avoidance conditions for 15A NCAC 2D .0530(b) PSD
carbon monoxide	Facility wide: See section 2.2 A.5	15A NCAC 2Q .0317 Avoidance conditions for 15A NCAC 2D .0530(b) PSD
sulfur dioxide	2.3 pounds per million Btu	15A NCAC 2D .0516
visible emissions	20 percent opacity	15A NCAC 2D .0521
odorous emissions	See Section 2.2 (A)(1); <b>State-enforceable only</b>	15A NCAC 2D .1806
toxic air pollutants	See Section 2.2 (A)(2); <b>State-enforceable only</b>	15A NCAC 2D .1100
	See Section 2.2 (A)(3); <b>State-enforceable only</b>	15A NCAC 2Q .0711

#### 1. 15A NCAC 2D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

- a. Emissions of particulate matter from the brick tunnel kilns (ID Nos. ES-K1, ES-K2, ES-K3, and ES-K4) shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

$$E = 4.10 \times P^{0.67} \quad \text{Where } E = \text{allowable emission rate in pounds per hour}$$

$$P = \text{process weight in tons per hour}$$

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

**Testing** [15A NCAC 2D .0501(c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.
- c. **Monitoring** [15A NCAC 2Q .0508(f)]

To assure compliance, the Permittee shall perform an inspection of the natural gas/propane-fired brick tunnel kilns in accordance with the following:

  - i. every six months, perform a visual inspection of the brick tunnel kilns' emissions ductwork system for leaks, holes, or disrepair; and
  - ii. every six months, perform a visual inspection of the tunnel brick kilns' fuel combustion system.  
The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if inspections of the system ductwork or fuel combustion systems are not performed.
- d. **Record keeping** [15A NCAC 2Q .0508(f)]

The results of the monitoring shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log shall record the following:

  - i. the date and time of each recorded action;
  - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce particulate emissions; and
  - iii. the results of any corrective actions performed.  
The Permittee shall be deemed in non-compliance with Section 2.1 A.1.a. above, if records of the monitoring results are not maintained.
- e. **Reporting** [15A NCAC 2Q .0508(f)]

The Permittee shall submit, in writing a summary report of the observations by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

## 2. 15A NCAC 2D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide from the brick tunnel kilns (**ID Nos. ES-K1, ES-K2, ES-K3, and ES-K4**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516]

**Testing** [15A NCAC 2D .0501(c)(4)]
- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(4) and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 A. 2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

**Monitoring/Recordkeeping/Reporting** [15A NCAC 2Q .0508(f)]

- c. No monitoring, recordkeeping, or reporting is required to ensure compliance with this regulation.

## 3. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from the tunnel brick kilns (**ID Nos. ES-K1, ES-K2, ES-K3, and ES-K4**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521 (d)]

**Testing** [15A NCAC 2D .0501(c)(8)]
- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 A. 3. a. above, the

Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

**Monitoring/Recordkeeping/Reporting** [15A NCAC 2Q .0508(f)]

c. No monitoring, recordkeeping, or reporting is required to ensure compliance with this regulation.

**B. Plant 1 and 2 NSPS-affected grinding and screening operations consisting of:**

**Nine belt conveyors (F-C-1, G-C-1, G-C-2, G-C-3, G-C-4, G-C-5, G-C-6, G-C-7 & RM-SC)**

**One primary roll crusher (C-1)**

**One scalping screen (S-1b)**

**Four finishing screens (S-1a)**

**One hammermill (G-1)**

**One vibrating grizzly feeder (VGF-1), and**

**Plant 3 NSPS-affected grinding and screening operations consisting of:**

**Eleven conveyors (F-C-2 and G2-C-1 through G2-C-10)**

**One primary roll crusher (C-2)**

**One scalping screen (S-2b)**

**Four finishing screens (S-2a)**

**One hammermill (G-2)**

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
visible emissions	10 percent opacity for belt conveyors, scalping screens, finishing screens and grizzly feeder, 15 percent opacity for crushers and hammermills, OR "no visible emissions" from the building(s) enclosing the affected facilities	15A NCAC 2D .0524 (40 CFR 60.670, Subpart OOO)
odors	See Section 2.2(A)(1) - odorous emissions must be controlled; <b>State-enforceable only</b>	15A NCAC 2D .1806

**1. 15A NCAC 2D .0524: NSPS 40 CFR PART 60, SUBPART OOO - STANDARDS OF PERFORMANCE FOR NONMETALLIC MINERAL PROCESSING PLANTS.**

**a. Emission Standard(s)** [15A NCAC 2D .0524].

For the NSPS affected facilities within the building subject to a 10 or 15 percent opacity limit, the Permittee shall meet the requirements of this Subpart by demonstrating compliance with 40 CFR 60.672(c) from each individual affected facility **OR** by complying with the 40 CFR 60.672(e) limit of "no visible emissions" from the unvented building. Additionally, the Permittee shall comply with all applicable provisions, notification, testing, reporting, record keeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 2D .0524 "New Source Performance Standards (NSPS) as promulgated in 40 CFR Part 60.670, Subpart OOO, including Subpart A "General Provisions."

**b. Testing** [15A NCAC 2D .0501(c)(3)]

Initial compliance or subsequent additional testing has been or will be performed in accordance with the requirements of 15A NCAC 2D .0524 (40 CFR 60.670, Subpart OOO), 15A NCAC 2D .0501(c)(8) and (18) and General Condition JJ when determining compliance of each individual affected facility with 40 CFR 60.672(a), (b) and (c) **OR** Method 22 testing, in accordance with the requirements of 15A NCAC 2D .0524 (40 CFR 60.670 (Subpart OOO), 15A NCAC 2D .0501(c)(8) and (18) and General Condition JJ, has been or will be performed when determining compliance with the "no visible emissions" standard of 40 CFR 60.672(e). If test results exceed the applicable limit(s) as given in Section 2.1 B.1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524.

c. **Monitoring** [15A NCAC 2Q .0508(f)]

Monitoring to assure compliance with the applicable emissions standard(s) of Section 2.1 B.1.a. above shall be performed by the Permittee as follows:

- i. observation of a building enclosure containing affected facilities:
  - A. observe each building containing each NSPS-affected clay grinding plant each month for any fugitive visible emissions. Should any visible emissions be observed, each affected facility enclosed in the building shall be deemed to be in noncompliance with 15A NCAC 2D .0524 **UNLESS** a compliance demonstration for each affected facility enclosed in the building is performed in accordance with the following;
  - B. an approved Method 9 opacity determination meeting the requirements of 40 CFR 60.670 (Subpart OOO, 15A NCAC 2D .0501(c)(8) and (18) is performed for each enclosed NSPS-affected facility and visible emissions are demonstrated to comply with the applicable limit(s) given in 60.672(b) and (c). If compliance for the affected facility cannot be demonstrated, then the affected facility shall be deemed to be in noncompliance with 15A NCAC 2D .0524, **OR**
- ii. observation of an individual affected facility enclosed in the building:
  - A. After the initial performance test required under 40 CFR 60.670, the Permittee shall observe each individual affected facility enclosed in the building each month for any visible emissions which exceed normal. The Permittee shall establish normal emissions by January 1, 2004 by observing each week for thirty (30) days the emissions from each enclosed affected facility. Should monthly observed emissions of an enclosed affected facility exceed the established normal visible emissions for that affected facility, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0524, **UNLESS**,
  - B. an approved Method 9 (or Method 22 if observing an affected facilities building enclosure) opacity determination meeting the requirements of 40 CFR 60.670 (Subpart OOO, 15A NCAC 2D .0501(c)(8) and (18) is performed for each enclosed affected facility and visible emissions are demonstrated to comply with the applicable limit(s) given in 60.672(b) and (c). If compliance for the affected facility cannot be demonstrated, then the affected facility shall be deemed to be in noncompliance with 15A NCAC 2D .0524.

d. **Record keeping** [15A NCAC 2Q .0508(f)]

Results of monitoring shall be maintained in a log (written or electronic form). The following shall be recorded in the log:

- i. the results of the Permittee's observation to establish normal;
- ii. the results of the Permittee's monthly buildings fugitive emissions observations or the monthly opacity emissions observations for each affected facility;
- iii. if option in Section 2.1 B.1.c.ii.A. above is followed, the observation to establish normal should be recorded for each affected facility within each building.
- iv. whether the observed emissions source was a building or each affected facility within each building, the date and time of each observation, and
- v. if any emissions were observed from a building or whether any emissions observed exceeded normal, the time and any resulting action(s) taken to reduce emissions exceeding an applicable limit, and
- vi. the date, time, and type of all corrective actions performed to prevent such an exceedance from re-occurring and a copy of any Method 9 or Method 22 opacity testing performed for the purpose of demonstrating compliance with the applicable emissions limit(s).

The Permittee shall be deemed in non-compliance with Section 2.1.B.1.a. above, if records of the monitoring results are not maintained.

e. **Reporting** [15A NCAC 2Q .0508(f)]

The Permittee shall submit a written summary report of the all monitoring and record keeping activities as follows:

- i. a report of any changes in existing facilities as specified in 40 CFR 60.676 - Reporting and record keeping, including equipment being replaced and the replacement equipment of affected facilities. This report shall be submitted to the Administrator as required.

- ii. a summary report of monitoring and record keeping activities by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.
- iii. a report of any noncomplying emissions for all emissions which exceed the no visible emission limit of 40 CFR 60.672(e) or the applicable opacity limit(s) of 40 CFR 60.672(a), (b) and (c) as established using Method 9 or 22 compliance demonstrations conducted on an affected facility or building, along with the determined cause of exceedance and the resulting corrective action taken.

**C. Coatings dryer (ID No. ES-CD, 0.3 million Btu per hour maximum heat input rate)**

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
particulate matter including PM <sub>10</sub>	$E=4.10P^{0.67}$ Where: E = allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 2D .0515
particulate matter (PM <sub>10</sub> )	Facility wide: See section 2.2 A.4	15A NCAC 2Q .0317 Avoidance conditions for 15A NCAC 2D .0530(b) PSD
carbon monoxide	Facility wide: See section 2.2 A.5	15A NCAC 2Q .0317 Avoidance conditions for 15A NCAC 2D .0530(b) PSD
sulfur dioxide	2.3 pounds per million Btu	15A NCAC 2D .0516
visible emissions	20 percent opacity	15A NCAC 2D .0521
odorous emissions	See Section 2.2.(A)(1); <b>State-enforceable only</b>	15A NCAC 2D .1806

**1. 15A NCAC 2D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES**

- a. Emissions of particulate matter from the coatings dryer (**ID Nos. ES-CD**) shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

$$E = 4.10 \times P^{0.67} \quad \text{Where } E = \text{allowable emission rate in pounds per hour}$$

$$P = \text{process weight in tons per hour}$$

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

**Testing** [15A NCAC 2D .0501(c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 C. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

**Monitoring** [15A NCAC 2Q .0508(f)]

To assure compliance, the Permittee shall perform an inspection of the natural gas/propane-fired coatings dryer in accordance with the following:

- i. every six months, perform a visual inspection of the coatings dryer emissions ductwork system for leaks, holes, or disrepair; and

ii. every six months, perform a visual inspection of the coatings dryer fuel combustion system. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if inspections of the system ductwork or fuel combustion systems are not performed.

d. **Record keeping** [15A NCAC 2Q .0508(f)]

The results of the monitoring shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log shall record the following:

- i. the date and time of each recorded action;
- ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce particulate emissions; and
- iii. the results of any corrective actions performed.

The Permittee shall be deemed in non-compliance with Section 2.1 C.1.a. above, if records of the monitoring results are not maintained.

e. **Reporting** [15A NCAC 2Q .0508(f)]

The Permittee shall submit, in writing a summary report of the observations by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

**2. 15A NCAC 2D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES**

- a. Emissions of sulfur dioxide from the coatings dryer (**ID Nos. ES-CD**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516]

**Testing** [15A NCAC 2D .0501(c)(4)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(4) and General Condition JJ found in Section 3. If the results of this test are above the limit given in Section 2.1 C. 2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

**Monitoring/Recordkeeping/Reporting** [15A NCAC 2Q .0508(f)]

- c. No monitoring, recordkeeping, or reporting is required to ensure compliance with this regulation.

**3. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS**

- a. Visible emissions from the coatings dryer (**ID Nos. ES-CD**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521 (d)]

**Testing** [15A NCAC 2D .0501(c)(8)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 C. 3. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

**Monitoring** [15A NCAC 2Q .0508(f)]

- c. To assure compliance, once a month the Permittee shall observe the emission points of these sources for any visible emissions above normal. The Permittee shall establish "normal" for the source by March 3, 2004. If visible emissions from this source are observed to be above normal, the Permittee shall either: (a) be deemed to be in noncompliance with 15A NCAC 2D .0521 or (b) demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .0501(c)(8) is below the limit given in Section 2.1.C. 3. a. above. If the demonstration in (b) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

**Recordkeeping** [15A NCAC 2Q .0508(f)]

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
  - i. the date and time of each recorded action;
  - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
  - iii. the results of any corrective actions performed.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if these records are not maintained.

**Reporting** [15A NCAC 2Q .0508(f)]

- e. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

**D. Mixing room (ID No. ES-MR)**

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
particulate matter including PM <sub>10</sub>	$E=4.10P^{0.67}$ Where: E = allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 2D .0515
visible emissions	20 percent opacity	15A NCAC 2D .0521
odorous emissions	See Section 2.2 (A)(1); <b>State-enforceable only</b>	15A NCAC 2D .1806

**1. 15A NCAC 2D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES**

- a. Emissions of particulate matter from the mixing room (**ID Nos. ES-MR**) shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

$$E = 4.10 \times P^{0.67} \quad \text{Where } E = \text{allowable emission rate in pounds per hour}$$

$$P = \text{process weight in tons per hour}$$

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

**Testing** [15A NCAC 2D .0501 (c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 D. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

**Monitoring** [15A NCAC 2Q .0508(f)]

- c. Particulate matter emissions from the mixing room (**ID No. ES-MR**) shall be controlled by the bagfilter. To assure compliance, the Permittee shall perform inspections and maintenance on the bagfilter as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there is no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
  - i. a monthly visual inspection of the system ductwork and material collection unit for leaks; and
  - ii. an annual (for each 12 month period following the initial inspection) internal inspection of the bagfilter's structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the ductwork and bagfilters are

- not inspected and maintained.
- d. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. the date and time of each recorded action;
  - ii. the results of each inspection;
  - iii. the results of any maintenance performed on the bagfilters; and
  - iv. any variance from manufacturer's recommendations, if any, and corrections made.
- The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if these records are not maintained.
- e. **Record keeping** [15A NCAC 2Q .0508(f)]  
The results of the monitoring shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log shall record the following:
- i. the date and time of each recorded action;
  - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce particulate emissions; and
  - iii. the results of any corrective actions performed.
- The Permittee shall be deemed in non-compliance with Section 2.1 D.1.a above, if records of the monitoring results are not maintained.
- f. **Reporting** [15A NCAC 2Q .0508(f)]  
The Permittee shall submit, in writing a summary report of the observations by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

## 2. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from the mixing room (**ID Nos. ES-MR**) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

### **Testing** [15A NCAC 2D .0501(c)(8)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 D.2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

### **Monitoring/Recordkeeping/Reporting** [15A NCAC 2Q .0508(f)]

- c. To assure compliance, once a month the Permittee shall observe the emission points of these sources for any visible emissions above normal. The Permittee shall establish "normal" for the source by August 23, 2004. If visible emissions from this source are observed to be above normal, the Permittee shall either: (a) be deemed to be in noncompliance with 15A NCAC 2D .0521 or (b) demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .0501(c)(8) is below the limit given in Section 2.1 D. 2. a. above. If the demonstration in (b) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

### **Recordkeeping** [15A NCAC 2Q .0508(f)]

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. the date and time of each recorded action;
  - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
  - iii. the results of any corrective actions performed.
- The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if these records are not maintained.

**Reporting** [15A NCAC 2Q .0508(f)]

- e. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

**E. Three sand application units of Plant 1 Making Room (ID Nos. ES-P1-SA-1, ES-P1-SA-2, and ES-P1-SA-3) and associated bagfilter (ID No. CD-BMR1BH)**

**Three sand application units of Plant 2 Making Room (ID Nos. ES-P2-SA-1, ES-P2-SA-2, and ES-P2-SA-3) and associated bagfilter (ID No. CD-BMR2BH)**

**Three sand application units of Plant 3 Making Room (ID Nos. ES-P3-SA-1, ES-P3-SA-2, and ES-P3-SA-3) and associated bagfilter (ID No. CD-BMR3BH)**

**Four sand application units of Plant 4 Making Room (ID Nos. ES-P4-SA-1, ES-P4-SA-2, ES-P4-SA3, and ES-P4-SA-4) and associated bagfilter (ID No. CD-BMR4BH)**

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
particulate matter including PM <sub>10</sub>	$E = 55 * P^{0.11} - 40$ Where: E = allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 2D .0515
visible emissions	20 percent opacity	15A NCAC 2D .0521
odorous emissions	See Section 2.2(A)(1); <b>State-enforceable only</b>	15A NCAC 2D .1806

**1. 15A NCAC 2D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES**

- a. Emissions of particulate matter from the sand application units (ID Nos. ES-P1-SA-1, ES-P1-SA-2, ES-P1-SA-3, ES-P2-SA-1, ES-P2-SA-2, ES-P2-SA-3, ES-P3-SA-1, ES-P3-SA-2, ES-P3-SA-3, ES-P4-SA-1, ES-P4-SA-2, ES-P4-SA-3, and ES-P4-SA-4) shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

$$E = 55 * P^{0.11} - 40$$

Where E = allowable emission rate in pounds per hour  
P = process weight in tons per hour

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

**Testing** [15A NCAC 2D .0501 (c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 E. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

**Monitoring** [15A NCAC 2Q .0508(f)]

- c. Particulate matter emissions from the sand application units (ID Nos. ES-P1-SA-1, ES-P1-SA-2, ES-P1-SA-3, ES-P2-SA-1, ES-P2-SA-2, ES-P2-SA-3, ES-P3-SA-1, ES-P3-SA-2, ES-P3-SA-3, ES-P4-SA-1, ES-P4-SA-2, ES-P4-SA-3, and ES-P4-SA-4) shall be controlled by the associated bagfilters (ID Nos. CD-BMR1BH, CD-BMR2BH, CD-BMR3BH, and CD-BMR4BH). To assure compliance, the Permittee shall perform inspections and maintenance on the bagfilters, as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there is no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
  - i. a monthly visual inspection of the system ductwork and material collection unit for leaks; and
  - ii. an annual (for each 12 month period following the initial inspection) internal inspection of the bagfilter's structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the ductwork and bagfilters are not inspected and maintained.

- d. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
  - i. the date and time of each recorded action;
  - ii. the results of each inspection;
  - iii. the results of any maintenance performed on the bagfilters; and
  - iv. any variance from manufacturer's recommendations, if any, and corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if these records are not maintained.

- e. **Record keeping** [15A NCAC 2Q .0508(f)]

The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:

- i. the date and time of each recorded action;
- ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce particulate emissions; and
- iii. the results of any corrective actions performed.

The Permittee shall be deemed in non-compliance with Section 2.1 E.1.a. above if records of the monitoring results are not maintained.

- f. **Reporting** [15A NCAC 2Q .0508(f)]

The Permittee shall submit, in writing a summary report of the observations by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

## 2. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from the sand application units (ID Nos. ES-P1-SA-1, ES-P1-SA-2, ES-P1-SA-3, ES-P2-SA-1, ES-P2-SA-2, ES-P2-SA-3, ES-P3-SA-1, ES-P3-SA-2, ES-P3-SA-3, ES-P4-SA-1, ES-P4-SA-2, ES-P4-SA-3, and ES-P4-SA-4) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521 (d)]

**Testing** [15A NCAC 2D .0501(c)(8)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ. If the results of this test are above the limit given in Section 2.1 E.2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

**Monitoring** [15A NCAC 2Q .0508(f)]

- c. To assure compliance, once a month the Permittee shall observe the emission points of the sources (ID Nos. ES-P3-SA-1, ES-P3-SA-2, and ES-P3-SA-3) for any visible emissions above normal. The Permittee shall establish "normal" for these sources by February 26, 2004. If visible emissions from these sources are observed to be above normal, the Permittee shall either: (a) be deemed to be in noncompliance with 15A NCAC 2D .0521 or (b) demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .0501(c)(8) is below the limit given in Section 2.1 E.2.a. above. If the demonstration in (b) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

To assure compliance, once a month, the Permittee shall observe the emission points of the sources (ID Nos. ES-P1-SA-1, ES-P1-SA-2, ES-P1-SA-3, ES-P2-SA-1, ES-P2-SA-2, ES-P2-SA-3) for any visible emissions above normal. The Permittee shall establish "normal" for these sources in the first 30 days following the commencement of operation. If visible emissions from this source are observed to be above normal, the Permittee shall either:

- i. take appropriate action to correct the above-normal emissions within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
- ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .0501(c)(8) is below the limit given in Section 2.1 E.2.a. above.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

To assure compliance, once a month, the Permittee shall observe the emission point(s) of emission sources ID Nos. ES-P4-SA-1, ES-P4-SA-2, ES-P4-SA-3, and ES-P4-SA-4 for any visible emissions above normal. The Permittee shall establish "normal" for these sources in the first 30 days following the commencement of operation. If visible emissions from this source are observed to be above normal, the Permittee shall either:

- i. take appropriate action to correct the above-normal emissions within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
- ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .0501(c)(8) is below the limit given in Section 2.1 E.2.a. above.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

**Recordkeeping** [15A NCAC 2Q .0508(f)]

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. the date and time of each recorded action;
  - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
  - iii. the results of any corrective actions performed.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if these records are not maintained.

**Reporting** [15A NCAC 2Q .0508(f)]

- e. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

- F. Plant 4 NSPS-affected grinding and screening operations consisting of:**  
**Ten conveyors (G4-C-1, G4-C-2, G4-C-4 through G4-C-10, and C4-C-3)**  
**One dump hopper (F-4)**  
**One grizzly (VGF-4)**  
**One jaw crusher (C-4)**  
**One hammermill (G-4)**  
**Four single deck screens (S-4A)**  
**One double deck screen (S-4B)**

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Visible emissions	10 percent opacity for each grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station belt conveyors, scalping screens, finishing screens and grizzly feeder; 15 percent opacity for crushers and hammermills; OR “no visible emissions” from the building(s) enclosing the affected facilities	15A NCAC 2D .0524 (40 CFR 60.670, Subpart OOO)
odors	See Section 2.2(A)(1) - odorous emissions must be controlled; <b>State-enforceable only</b>	15A NCAC 2D .1806

**1. 15A NCAC 2D .0524: NSPS 40 CFR PART 60, SUBPART OOO - STANDARDS OF PERFORMANCE FOR NONMETALLIC MINERAL PROCESSING PLANTS.**

- a. **Emission Standard(s)** [15A NCAC 2D .0524].  
 For the NSPS affected facilities within the building subject to a 10 or 15 percent opacity limit, the Permittee shall meet the requirements of this Subpart by demonstrating compliance with 40 CFR 60.672(c) from each individual affected facility **OR** by complying with the 40 CFR 60.672(e) limit of “no visible emissions” from the unvented building. Additionally, the Permittee shall comply with all applicable provisions, notification, testing, reporting, record keeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 2D .0524 "New Source Performance Standards (NSPS) as promulgated in 40 CFR Part 60.670, Subpart OOO, including Subpart A "General Provisions."
- b. **Testing** [15A NCAC 2D .0501(c)(3)]  
 Initial compliance or subsequent additional testing will be performed in accordance with the requirements of 15A NCAC 2D .0524 (40 CFR 60.670, Subpart OOO), 15A NCAC 2D .0501(c)(8) and (18) and General Condition JJ when determining compliance of each individual affected facility with 40 CFR 60.672(a), (b) and (c) **OR** Method 22 testing, in accordance with the requirements of 15A NCAC 2D .0524 (40 CFR 60.670 (Subpart OOO), 15A NCAC 2D .0501(c)(8) and (18) and General Condition JJ, has been or will be performed when determining compliance with the “no visible emissions” standard of 40 CFR 60.672(e). If test results exceed the applicable limit(s) as given in Section 2.1 F.1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524.
- c. **Monitoring** [15A NCAC 2Q .0508(f)]  
 Monitoring to assure compliance with the applicable emissions standard(s) of Section 2.1 F.1.a. above shall be performed by the Permittee as follows:
  - i. Observation of a building enclosure containing affected facilities:

- A. Observe each building containing each NSPS-affected clay grinding plant each month for any fugitive visible emissions. Should any visible emissions be observed, each affected facility enclosed in the building shall be deemed to be in noncompliance with 15A NCAC 2D .0524 **UNLESS** a compliance demonstration for each affected facility enclosed in the building is performed in accordance with the following;
  - B. An approved Method 9 opacity determination meeting the requirements of 40 CFR 60.670 (Subpart OOO, 15A NCAC 2D .0501(c)(8) and (18) is performed for each enclosed NSPS-affected facility and visible emissions are demonstrated to comply with the applicable limit(s) given in 60.672(b) and (c). If compliance for the affected facility cannot be demonstrated, then the affected facility shall be deemed to be in noncompliance with 15A NCAC 2D .0524, **OR**
- ii. Observation of an individual affected facility enclosed in the building:
  - A. After the initial performance test required under 40 CFR 60.670, the Permittee shall observe each individual affected facility enclosed in the building each month for any visible emissions which exceed normal. The Permittee shall establish normal emissions by observing each week for thirty (30) days the emissions from each enclosed affected facility **beginning no later than 30 days after commencing operation**. Should monthly observed emissions of an enclosed affected facility exceed the established normal visible emissions for that affected facility, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0524, **UNLESS**,
    - B. An approved Method 9 (or Method 22 if observing an affected facilities building enclosure) opacity determination meeting the requirements of 40 CFR 60.670 (Subpart OOO, 15A NCAC 2D .0501(c)(8) and (18) is performed for each enclosed affected facility and visible emissions are demonstrated to comply with the applicable limit(s) given in 60.672(b) and (c). If compliance for the affected facility cannot be demonstrated, then the affected facility shall be deemed to be in noncompliance with 15A NCAC 2D .0524.
- d. **Record keeping** [15A NCAC 2Q .0508(f)]
 

Results of monitoring shall be maintained in a log (written or electronic form). The following shall be recorded in the log:

  - i. the results of the Permittee's observation to establish normal;
  - ii. the results of the Permittee's monthly buildings fugitive emissions observations or the monthly opacity emissions observations for each affected facility;
  - iii. if option in Section 2.1 F.1.c.ii.A. above is followed, the observation to establish normal should be recorded for each affected facility within each building.
  - iv. whether the observed emissions source was a building or each affected facility within each building, the date and time of each observation, and
  - v. if any emissions were observed from a building or whether any emissions observed exceeded normal, the time and any resulting action(s) taken to reduce emissions exceeding an applicable limit, and
  - vi. the date, time, and type of all corrective actions performed to prevent such an exceedance from re-occurring and a copy of any Method 9 or Method 22 opacity testing performed for the purpose of demonstrating compliance with the applicable emissions limit(s).

The Permittee shall be deemed in non-compliance with Section 2.1.F.1.a. above, if records of the monitoring results are not maintained.
- e. **Reporting** [15A NCAC 2Q .0508(f)]
 

The Permittee shall submit a written summary report of the all monitoring and record keeping activities as follows:

  - i. a report of any changes in existing facilities as specified in 40 CFR 60.676 - Reporting and record keeping, including equipment being replaced and the replacement equipment of affected facilities. This report shall be submitted to the Administrator as required.
  - ii. a summary report of monitoring and record keeping activities by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.
  - iii. a report of any non-complying emissions for all emissions which exceed the no visible emission limit of 40 CFR 60.672(e) or the applicable opacity limit(s) of 40 CFR 60.672(a), (b) and (c) as established using Method 9 or 22 compliance demonstrations conducted on an affected facility or building, along with the determined cause of exceedance and the resulting corrective action taken.

## 2.2- Multiple Emission Source(s) Specific Limitations and Conditions

### A. Facility-wide affected sources

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
odors	odorous emissions must be controlled; <b>State-enforceable only</b>	15A NCAC 2D .1806
toxic air pollutants	toxic air pollutant emissions shall not exceed the levels listed in 2Q .0711 unless ambient standards are not exceeded; <b>State-enforceable only</b>	15A NCAC 2Q .0711
	toxic air pollutant emissions shall not exceed their modeled acceptable ambient levels; <b>State-enforceable only</b>	15A NCAC 2D .1100
PM10	the facility wide PM10 emissions shall not exceed 250 tons per consecutive 12-month period.	15A NCAC 2Q .0317
carbon monoxide	the facility wide carbon monoxide emissions shall not exceed 250 tons per consecutive 12-month period.	15A NCAC 2Q .0317

#### **STATE-ENFORCEABLE ONLY**

#### 1. 15A NCAC 2D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS

- a. The Permittee shall not operate the facility without implementing management practices or installing and operating odor control equipment sufficient to prevent odorous emissions from the facility from causing or contributing to objectionable odors beyond the facility’s boundary.

#### **STATE-ENFORCEABLE ONLY**

#### 2. TOXIC AIR POLLUTANT EMISSIONS LIMITATION AND REQUIREMENT - Pursuant to 15A NCAC 2D .1100 and in accordance with the approved application for an air toxic compliance demonstration, the following permit limit shall not be exceeded:

EMISSION SOURCE(S)	TOXIC AIR POLLUTANT(S)	EMISSION LIMIT(S)
Brick Tunnel Kilns 1, 2, 3, and 4 (ID Nos. ES-K1, ES-K2, ES-K3, and ES-K4) <i>[Note: aggregate emissions from the kilns]</i>	arsenic	13.1 pounds per year
	benzene	1221.0 pounds per year
	cadmium	6.31 pounds per year
	chlorine	1.50 pounds per day (24-hour) 0.0625 pounds per hour
	soluble chromate compounds, as chromium (VI) equivalent	0.0588 pounds per day (24-hour)
	di(2-ethylhexyl)phthalate	2.31 pounds per day
	fluorides	2.40 pounds per hour 57.7 pounds per day (24-hour)
	hydrogen chloride	6.63 pounds per hour
	hydrogen fluoride	20.6 pounds per hour 495.0 pounds per day (24-hour)

- a. To ensure compliance with the above limits, the following restrictions shall apply:
  - i. The brick tunnel kiln (ID No. ES-K1) shall be limited to a fired brick production capacity of 12.24 tons per hour and shall have its two stack exits a minimum of 50 feet in height.
  - ii. The brick tunnel kiln (ID No. ES-K2) shall be limited to a fired brick production capacity of 9.64 tons per hour and shall have its two stack exits a minimum of 70 feet in height.
  - iii. The brick tunnel kiln (ID No. ES-K3) shall be limited to a fired brick production capacity of 12.67 tons per hour and shall have its single stack exit a minimum of 45 feet in height.
  - iv. The brick tunnel kiln (ID No. ES-K4) shall be limited to a fired brick production capacity of 13.5 tons per hour and shall have its single stack exit a minimum of 60 feet in height.
  - v. The dry lime adsorber (DLA) (ID No. CD-K4-SCR) shall be operated for control of emissions of hydrogen chloride and hydrogen fluoride when the brick tunnel kiln (ID No. ES-K4) is in operation with following exception:
    - (a) the Permittee shall be allowed to bypass the DLA (ID No. CD-K4-SCR) for routine control device maintenance and continue operation of the brick tunnel kiln (ID No. ES-K4) for up to 4% of the annual operating uptime of the kiln.
  - vi. The bypass damper position (open or closed) associated with DLA (ID No. CD-K4-SCR) shall be monitored and recorded when the brick tunnel kiln (ID No. ES-K4) is in operation.
  - vii. The limestone feeder setting of the DLA (ID No. CD-K4-SCR) shall be maintained at or above 40 pounds per hour averaged over a 24-hour block period.
  - viii. The DLA (ID No. CD-K4-SCR) shall contain an adequate amount of limestone in the storage bin and hopper during operation.
  - ix. The Permittee shall use the same grade of limestone from the same source in the DLA (ID No. CD-K4-SCR) as used during the most recent performance test.
- b. To ensure compliance with the above restrictions, the following monitoring and recordkeeping requirements shall apply:
  - i. The Permittee shall monitor and record electronically the bypass damper position (open or closed) associated with the DLA (ID No. CD-K4-SCR) at least every 15 minutes. In the alternative, a daily report showing the amount of open and/or closed time for the previous 24 hours may be generated from the plant computer. As a third alternative, manual log sheets may be used. The reason for each bypass event shall also be recorded in a logbook or by other electronic method.
  - ii. The Permittee shall verify that the limestone hopper and storage bin (located at the top of the DLA) contain adequate limestone by performing a daily visual check and recording the results in a logbook or by other electronic method.
  - iii. The Permittee shall record the limestone feeder setting daily in logbook or by other electronic method to verify that the feeder setting is being maintained at or above 40 pounds per hour.
  - iv. The Permittee shall maintain records of the source and type of limestone utilized in the DLA (ID No. ES-K4-SCR) during the most recent performance test in a logbook or by other electronic method.
  - v. The Permittee shall monitor and record operating uptime of the brick tunnel kiln (ID No. ES-K4) and the downtime associated the routine control device maintenance of the DLA (ID No. CD-K4-SCR).

**STATE-ENFORCEABLE ONLY**

**3. 15A NCAC 2Q .0711: PERMIT REQUIREMENTS FOR TOXIC AIR POLLUTANTS and 15A NCAC 2Q .0705: EXISTING FACILITIES AND SIC CALLS for TOXIC AIR POLLUTANT EMISSIONS**

- a. Pursuant to 15A NCAC 2Q .0711 "Emission Rates Requiring a Permit," for each of the below listed toxic air pollutants (TAPs), the Permittee has made a demonstration that facility-wide actual emissions do not exceed the Toxic Permit Emission Rates (TPERs) listed in 15A NCAC 2Q .0711. The facility shall be operated and maintained in such a manner that emissions of any listed TAPs from the facility, including fugitive emissions, will not exceed TPERs listed in 15A NCAC 2Q .0711.
  - i. A permit to emit any of the below listed TAPs shall be required for this facility if actual emissions from all sources will become greater than the corresponding TPERs.
  - ii. **PRIOR** to exceeding any of these listed TPERs, the Permittee shall be responsible for obtaining a permit to emit TAPs and for demonstrating compliance with the requirements of 15A NCAC 2D.1100 "Control of Toxic Air Pollutants".
  - iii. In accordance with the approved application, the Permittee shall maintain records of operational information demonstrating that the TAP emissions do not exceed the TPERs as listed below:

Pollutant (CAS Number)	TPERs Limitations			
	Carcinogens (lb/yr)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hr)	Acute Irritants (lb/hr)
beryllium (7440-41-7)	0.28			
carbon disulfide (75-15-0)		3.9		
p-dichlorobenzene (106-46-7)				16.8
formaldehyde (50-00-0)				0.04
manganese and compounds		0.63		
mercury, aryl and inorganic compounds		0.013		
methyl chloroform (71-55-6)		250		64
methyl ethyl ketone (78-93-3)		78		22.4
nickel metal (7440-02-0)		0.13		
perchloroethylene (127- 18-4)	13,000			
phenol (108-95-2)			0.24	
styrene (100-42-5)			2.7	
toluene (108-88-3)		98		14.4
xylene (1330-20-7)		57		16.4

- b. As of January 23, 2006, emissions of toxic air pollutants have been demonstrated on a facility-wide basis (excluding those sources exempt under 15A NCAC 2Q .0702 "Exemptions") that each of the toxic air pollutants (TAPs) emitted from all sources at the facility are either below its respective toxic permit emission rates (TPER) listed in 15A NCAC 2Q .0711 - "Emission Rates Requiring a Permit" or the TAPs are in compliance with 15A NCAC 2D .1100 "Control of Toxic Air Pollutants" as described elsewhere in this permit.

**4. 15A NCAC 2Q .0317: AVOIDANCE CONDITIONS FOR 15A NCAC 2D .0530 "PREVENTION OF SIGNIFICANT DETERIORATION FOR PM10"**

- a. In order to avoid classification as a major stationary source pursuant to 15A NCAC 2D .0530(b), the facility wide PM10 emissions discharged into the atmosphere shall be less than 250 tons per consecutive twelve-month period.

**Testing** [15A NCAC 2D .0501(c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance General Condition JJ. If the results of this test are above the limits given in Section 2.2 A. 4. a. above, the Permittee shall be classified as a major stationary source pursuant to 15A NCAC 2D .0530(b).

**Monitoring/Recordkeeping** [15A NCAC 2Q .0508(f)]

- c. To ensure that the emissions are less than the limit in 2.2 A.4.a, the Permittee shall process no more than 32,000 tons of coating material in the coating dryer (ID No. ES-CD) per consecutive 12-month period. The Permittee shall be classified as a major stationary source pursuant to with 15A NCAC 2D .0530(b) if the amount of coating material exceeds this amount.
- d. To assure compliance, the Permittee shall maintain records:
  - i. the Permittee shall record and maintain (in written or electronic format) the amount of coating material dried each month.The Permittee shall be deemed in noncompliance with 15A NCAC 2Q .0317 if the amount of coating material dried each month is not recorded or if the amount of coating material processed exceeds the limit in Section 2.2 A.4.c.

**Reporting** [15A NCAC 2Q .0508(f)]

- e. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
  - i. The monthly amount of coating material dried, and
  - ii. The amount of coating material dried for each of the 12-month periods over the previous 17 months.
  - iii. All instances of deviations from the requirements of this permit condition must be clearly identified.

**5. 15A NCAC 2Q .0317: AVOIDANCE CONDITIONS FOR 15A NCAC 2D .0530 "PREVENTION OF SIGNIFICANT DETERIORATION FOR CARBON MONOXIDE"**

- a. In order to avoid classification as a major stationary source pursuant to 15A NCAC 2D .0530(b), the facility wide carbon monoxide emissions discharged into the atmosphere less than 250 tons per consecutive twelve-month period.

**Testing** [15A NCAC 2D .0501(c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance General Condition JJ. If the results of this test are above the limits given in Section 2.2 A.5.a above, the Permittee shall be classified as a major stationary source pursuant to 15A NCAC 2D .0530(b).

**Monitoring/Recordkeeping** [15A NCAC 2Q .0508 (f)]

- c. To ensure that the emissions are less than the limit in 2.2 A.5.a, the combined carbon monoxide emissions from emission sources ES-K1, ES-K2, ES-K3, and ES-K4 shall not exceed 249 tons per consecutive 12-month period. The Permittee shall be classified as a major stationary source pursuant to 15A NCAC 2D .0530(b) if the combined emissions exceed this amount.
- d. To assure compliance, the Permittee shall maintain records as follows:
  - i. the Permittee shall record and maintain (in written or electronic format) the monthly total tons of brick produced for each kiln (ES-K1, ES-K2, ES-K3, and ES-K4),
- e. Each month calculations shall be performed and recorded to determine the actual carbon monoxide emissions. The carbon monoxide emissions shall be calculated using an emission factor of 1.2 pounds of carbon monoxide per ton of brick produced unless the emission factor is revised through performance testing. When revised through performance testing, the carbon monoxide emission factor may be modified through an administrative amendment to the permit to reflect the results of the most recent performance test(s). The Permittee shall not use the updated values until the test results are incorporated into the permit. The Permittee shall be deemed in noncompliance with 15A NCAC 2Q .0317 if the above records are not kept or if the carbon monoxide emissions exceed the limit in Section 2.2 A.5.a.

**Reporting** [15A NCAC 2Q .0508(f)]

- f. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
  - i. The monthly carbon monoxide emissions for the previous 17 months. The emissions must be calculated

- for each of the 12-month periods over the previous 17 months; and
- ii. All instances of deviations from the requirements of this permit condition must be clearly identified.

### **SECTION 3 - GENERAL CONDITIONS**

This section describes terms and conditions applicable to this Title V facility. All references to the “permit” in this section apply only to Part I of the permit.

- A. **General Provisions** [NCGS 143-215 and 15A NCAC 2Q .0508(i)(16)]
  1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 2D and 2Q.
  2. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to NCGS 143-215.114A and 143-215.114B, including assessment of civil and/or criminal penalties. Any unauthorized deviation from the conditions of this permit may constitute grounds for revocation and/or enforcement action by the DAQ.
  3. This permit is not a waiver of or approval of any other Department permits that may be required for other aspects of the facility which are not addressed in this permit.
  4. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted facility, or from penalties therefore, nor does it allow the Permittee to cause pollution in contravention of state laws or rules, unless specifically authorized by an order from the North Carolina Environmental Management Commission.
  5. Except as identified as state-only requirements in this permit, all terms and conditions contained herein shall be enforceable by the DAQ, the EPA, and citizens of the United States as defined in the Federal Clean Air Act.
  6. Any stationary source of air pollution shall not be operated, maintained, or modified without the appropriate and valid permits issued by the DAQ, unless the source is exempted by rule. The DAQ may issue a permit only after it receives reasonable assurance that the installation will not cause air pollution in violation of any of the applicable requirements. A permitted installation may only be operated, maintained, constructed, expanded, or modified in a manner that is consistent with the terms of this permit.
- B. **Permit Availability** [15A NCAC 2Q .0507(k) and .0508(i)(9)(B)]

The Permittee shall have available at the facility a copy of this permit and shall retain for the duration of the permit term one complete copy of the application and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of Department of Environment and Natural Resources upon request.
- C. **Severability Clause** [15A NCAC 2Q .0508(i)(2)]

In the event of an administrative challenge to a final and binding permit in which a condition is held to be invalid, the provisions in this permit are severable so that all requirements contained in the permit, except those held to be invalid, shall remain valid and must be complied with.
- D. **Submissions** [15A NCAC 2Q .0507(e) and 2Q .0508(i)(16)]

Except as otherwise specified herein, two copies of all documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required by this permit shall be submitted to the appropriate Regional Office. Refer to the Regional Office address on the cover page of this permit. For continuous emissions monitoring systems (CEMS) reports, continuous opacity monitoring systems (COMS) reports, quality assurance (QA)/quality control (QC) reports, acid rain CEM certification reports, and NOx budget CEM certification reports, one copy shall be sent to the appropriate Regional Office and one copy shall be sent to:

Supervisor, Stationary Source Compliance  
North Carolina Division of Air Quality  
1641 Mail Service Center  
Raleigh, NC 27699-1641
- E. **Duty to Comply** [15A NCAC 2Q .0508(i)(2)]

The Permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition except conditions identified as state-only requirements constitutes a

violation of the Federal Clean Air Act. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

F. **Circumvention** - STATE ENFORCEABLE ONLY

The facility shall be properly operated and maintained at all times in a manner that will effect an overall reduction in air pollution. Unless otherwise specified by this permit, no emission source may be operated without the concurrent operation of its associated air pollution control device(s) and appurtenances.

G. **Permit Modifications**

1. Administrative Permit Amendments [15A NCAC 2Q .0514]  
The Permittee shall submit an application for an administrative permit amendment in accordance with 15A NCAC 2Q .0514.
2. Transfer in Ownership or Operation and Application Submittal Content [15A NCAC 2Q .0524 and 2Q .0505]  
The Permittee shall submit an application for an ownership change in accordance with 15A NCAC 2Q.0524 and 2Q .0505.
3. Minor Permit Modifications [15A NCAC 2Q .0515]  
The Permittee shall submit an application for a minor permit modification in accordance with 15A NCAC 2Q .0515.
4. Significant Permit Modifications [15A NCAC 2Q .0516]  
The Permittee shall submit an application for a significant permit modification in accordance with 15A NCAC 2Q .0516.
5. Reopening for Cause [15A NCAC 2Q .0517]  
The Permittee shall submit an application for reopening for cause in accordance with 15A NCAC 2Q .0517.

H. **Changes Not Requiring Permit Modifications**

1. Section 502(b)(10) Changes [15A NCAC 2Q .0523(a)]
  - a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
  - b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
    - i. the changes are not a modification under Title I of the Federal Clean Air Act;
    - ii. the changes do not cause the allowable emissions under the permit to be exceeded;
    - iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
    - iv. the Permittee shall attach the notice to the relevant permit.
  - c. The written notification shall include:
    - i. a description of the change;
    - ii. the date on which the change will occur;
    - iii. any change in emissions; and
    - iv. any permit term or condition that is no longer applicable as a result of the change.
  - d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.
2. Off Permit Changes [15A NCAC 2Q .0523(b)]  
The Permittee may make changes in the operation or emissions without revising the permit if:
  - a. the change affects only insignificant activities and the activities remain insignificant after the change; or
  - b. the change is not covered under any applicable requirement.
3. Emissions Trading [15A NCAC 2Q .0523(c)]  
To the extent that emissions trading is allowed under 15A NCAC 2D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 2Q .0523(c).

I.A. **Reporting Requirements for Excess Emissions and Permit Deviations**

[15A NCAC 2D .0535(f) and 2Q .0508(f)(2)]

"Excess Emissions" - means an emission rate that exceeds any applicable emission limitation or standard allowed by any rule in Sections .0500, .0900, .1200, or .1400 of Subchapter 2D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 2Q .0700. (*Note: Definitions of excess emissions*

*under 2D .1110 and 2D .1111 shall apply where defined by rule.)*

“**Deviations**” - for the purposes of this condition, any action or condition not in accordance with the terms and conditions of this permit including those attributable to upset conditions as well as excess emissions as defined above lasting less than four hours.

**Excess Emissions**

1. If a source is required to report excess emissions under NSPS (15A NCAC 2D .0524), NESHAPS (15A NCAC 2D .1110 or .1111), or the operating permit provides for periodic (e.g., quarterly) reporting of excess emissions, reporting shall be performed as prescribed therein.
2. If the source is not subject to NSPS (15A NCAC 2D .0524), NESHAPS (15A NCAC 2D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 2D .0535 as follows:
  - a. Pursuant to 15A NCAC 2D .0535, if excess emissions last for more than four hours resulting from a malfunction, a breakdown of process or control equipment, or any other abnormal condition, the owner or operator shall:
    - i. notify the Regional Supervisor or Director of any such occurrence by 9:00 a.m. Eastern Time of the Division's next business day of becoming aware of the occurrence and provide:
      - name and location of the facility;
      - nature and cause of the malfunction or breakdown;
      - time when the malfunction or breakdown is first observed;
      - expected duration; and
      - estimated rate of emissions;
    - ii. notify the Regional Supervisor or Director immediately when corrective measures have been accomplished; and
    - iii. submit to the Regional Supervisor or Director within 15 days a written report as described in 15A NCAC 2D .0535(f)(3).

**Permit Deviations**

3. Pursuant to 15A NCAC 2Q .0508(f)(2), the Permittee shall report deviations from permit requirements (terms and conditions) as follows:
  - a. Notify the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 2D .0535 quarterly. A written report to the Regional Supervisor shall include the probable cause of such deviation and any corrective actions or preventative actions taken. The responsible official shall certify all deviations from permit requirements.

**I.B. Other Requirements under 15A NCAC 2D .0535**

The Permittee shall comply with all other applicable requirements contained in 15A NCAC 2D .0535, including 15A NCAC 2D .0535(c) as follows:

1. Any excess emissions that do not occur during start-up and shut-down shall be considered a violation of the appropriate rule unless the owner or operator of the sources demonstrates to the Director, that the excess emissions are a result of a malfunction. The Director shall consider, along with any other pertinent information, the criteria contained in 15A NCAC 2D .0535(c)(1) through (7).
2. 15A NCAC 2D .0535(g). Excess emissions during start-up and shut-down shall be considered a violation of the appropriate rule if the owner or operator cannot demonstrate that excess emissions are unavoidable.

**J. Emergency Provisions [40 CFR 70.6(g)]**

The Permittee shall be subject to the following provisions with respect to emergencies:

1. An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in 3. below are met.
3. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that include information as follows:

- a. an emergency occurred and the Permittee can identify the cause(s) of the emergency;
  - b. the permitted facility was at the time being properly operated;
  - c. during the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the standards or other requirements in the permit; and
  - d. the Permittee submitted notice of the emergency to the DAQ within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
  5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

K. **Permit Renewal** [15A NCAC 2Q .0508(e) and 2Q .0513(b)]

This permit is issued for a fixed term of five years for facilities subject to Title IV requirements and for a term not to exceed five years in the case of all other facilities. This permit shall expire at the end of its term. Permit expiration terminates the facility's right to operate unless a complete renewal application is submitted at least nine months before the date of permit expiration. If the Permittee or applicant has complied with 15A NCAC 2Q .0512(b)(1), this permit shall not expire until the renewal permit has been issued or denied. All terms and conditions of this permit shall remain in effect until the renewal permit has been issued or denied.

L. **Need to Halt or Reduce Activity Not a Defense** [15A NCAC 2Q .0508(i)(4)]

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

M. **Duty to Provide Information (submittal of information)** [15A NCAC 2Q .0508(i)(9)]

1. The Permittee shall furnish to the DAQ, in a timely manner, any reasonable information that the Director may request in **writing** to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.
2. The Permittee shall furnish the DAQ copies of records required to be kept by the permit when such copies are requested by the Director. For information claimed to be confidential, the Permittee may furnish such records directly to the EPA upon request along with a claim of confidentiality.

N. **Duty to Supplement** [15A NCAC 2Q .0507(f)]

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the DAQ. The Permittee shall also provide additional information as necessary to address any requirement that becomes applicable to the facility after the date a complete permit application was submitted but prior to the release of the draft permit.

O. **Retention of Records** [15A NCAC 2Q .0508(f) and 2Q .0508 (l)]

The Permittee shall retain records of all required monitoring data and supporting information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring information, and copies of all reports required by the permit. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. Any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request.

P. **Compliance Certification** [15A NCAC 2Q .0508(n)]

The Permittee shall submit to the DAQ and the EPA (Air and EPCRA Enforcement Branch, EPA, Region 4, 61 Forsyth Street, Atlanta, GA 30303) postmarked on or before **March 1** a compliance certification (for the preceding calendar year) by a responsible official with all federally-enforceable terms and conditions in the permit, including emissions limitations, standards, or work practices. It shall be the responsibility of the current owner to submit a compliance certification for the entire year regardless of who owned the facility during the year. The compliance certification shall comply with additional requirements as may be specified under Sections 114(a)(3) or 504(b) of the Federal Clean Air Act. The compliance certification shall specify:

1. the identification of each term or condition of the permit that is the basis of the certification;

2. the compliance status (with the terms and conditions of the permit for the period covered by the certification);
3. whether compliance was continuous or intermittent; and
4. the method(s) used for determining the compliance status of the source during the certification period.

**Q. Certification by Responsible Official [15A NCAC 2Q .0520]**

A responsible official shall certify the truth, accuracy, and completeness of any application form, report, or compliance certification required by this permit. All certifications shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

**R. Permit Shield for Applicable Requirements [15A NCAC 2Q .0512]**

1. Compliance with the terms and conditions of this permit shall be deemed compliance with applicable requirements, where such applicable requirements are included and specifically identified in the permit as of the date of permit issuance.
2. A permit shield shall not alter or affect:
  - a. the power of the Commission, Secretary of the Department, or Governor under NCGS 143-215.3(a)(12), or EPA under Section 303 of the Federal Clean Air Act;
  - b. the liability of an owner or operator of a facility for any violation of applicable requirements prior to the effective date of the permit or at the time of permit issuance;
  - c. the applicable requirements under Title IV; or
  - d. the ability of the Director or the EPA under Section 114 of the Federal Clean Air Act to obtain information to determine compliance of the facility with its permit.
3. A permit shield does not apply to any change made at a facility that does not require a permit or permit revision made under 15A NCAC 2Q .0523.
4. A permit shield does not extend to minor permit modifications made under 15A NCAC 2Q .0515.

**S. Termination, Modification, and Revocation of the Permit [15A NCAC 2Q .0519]**

The Director may terminate, modify, or revoke and reissue this permit if:

1. the information contained in the application or presented in support thereof is determined to be incorrect;
2. the conditions under which the permit or permit renewal was granted have changed;
3. violations of conditions contained in the permit have occurred;
4. the EPA requests that the permit be revoked under 40 CFR 70.7(g) or 70.8(d); or
5. the Director finds that termination, modification, or revocation and reissuance of the permit is necessary to carry out the purpose of NCGS Chapter 143, Article 21B.

**T. Insignificant Activities [15A NCAC 2Q .0503]**

Because an emission source or activity is insignificant does not mean that the emission source or activity is exempted from any applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement. The Permittee shall have available at the facility at all times and made available to an authorized representative upon request, documentation, including calculations, if necessary, to demonstrate that an emission source or activity is insignificant.

**U. Property Rights [15A NCAC 2Q .0508(i)(8)]**

This permit does not convey any property rights in either real or personal property or any exclusive privileges.

**V. Inspection and Entry [15A NCAC 2Q .0508(l) and NCGS 143-215.3(a)(2)]**

1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:
  - a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
  - b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
  - c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
  - d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.

Nothing in this condition shall limit the ability of the EPA to inspect or enter the premises of the Permittee under Section 114 or other provisions of the Federal Clean Air Act.

2. No person shall refuse entry or access to any authorized representative of the DAQ who requests entry for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

W. **Annual Fee Payment** [15A NCAC 2Q .0508(i)(10)]

1. The Permittee shall pay all fees in accordance with 15A NCAC 2Q .0200.
2. Payment of fees may be by check or money order made payable to the N.C. Department of Environment and Natural Resources. Annual permit fee payments shall refer to the permit number.
3. If, within 30 days after being billed, the Permittee fails to pay an annual fee, the Director may initiate action to terminate the permit under 15A NCAC 2Q .0519.

X. **Annual Emission Inventory Requirements** [15A NCAC 2Q .0207]

The Permittee shall report by **June 30 of each year** the actual emissions of each air pollutant listed in 15A NCAC 2Q .0207(a) from each emission source within the facility during the previous calendar year. The report shall be in or on such form as may be established by the Director. The accuracy of the report shall be certified by a responsible official of the facility.

Y. **Confidential Information** [15A NCAC 2Q .0107 and 2Q. 0508(i)(9)]

Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 2Q .0107, the Permittee may also submit a copy of all such information and claim directly to the EPA upon request. All requests for confidentiality must be in accordance with 15A NCAC 2Q .0107.

Z. **Construction and Operation Permits** [15A NCAC 2Q .0100 and .0300]

A construction and operating permit shall be obtained by the Permittee for any proposed new or modified facility or emission source which is not exempted from having a permit prior to the beginning of construction or modification, in accordance with all applicable provisions of 15A NCAC 2Q .0100 and .0300.

AA. **Standard Application Form and Required Information** [15A NCAC 2Q .0505 and .0507]

The Permittee shall submit applications and required information in accordance with the provisions of 15A NCAC 2Q .0505 and .0507.

BB. **Financial Responsibility and Compliance History** [15A NCAC 2Q .0507(d)(3)]

The DAQ may require an applicant to submit a statement of financial qualifications and/or a statement of substantial compliance history.

CC. **Refrigerant Requirements (Stratospheric Ozone and Climate Protection)** [15A NCAC 2Q .0501(e)]

1. If the Permittee has appliances or refrigeration equipment, including air conditioning equipment, which use Class I or II ozone-depleting substances such as chlorofluorocarbons and hydrochlorofluorocarbons listed as refrigerants in 40 CFR Part 82 Subpart A Appendices A and B, the Permittee shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82 Subpart F.
2. The Permittee shall not knowingly vent or otherwise release any Class I or II substance into the environment during the repair, servicing, maintenance, or disposal of any such device except as provided in 40 CFR Part 82 Subpart F.
3. The Permittee shall comply with all reporting and recordkeeping requirements of 40 CFR, 82.166. Reports shall be submitted to the EPA or its designee as required.

DD. **Prevention of Accidental Releases - Section 112(r)** [15A NCAC 2Q .0508(h)]

If the Permittee is required to develop and register a Risk Management Plan with EPA pursuant to Section 112(r) of the Clean Air Act, then the Permittee is required to register this plan in accordance with 40 CFR Part 68.

EE. **Prevention of Accidental Releases General Duty Clause - Section 112(r)(1) - FEDERALLY-ENFORCEABLE ONLY**

Although a risk management plan may not be required, if the Permittee produces, processes, handles, or stores any amount of a listed hazardous substance, the Permittee has a general duty to take such steps as are necessary to prevent the accidental release of such substance and to minimize the consequences of any release.

FF. **Title IV Allowances** [15A NCAC 2Q .0508(i)(1)]

This permit does not limit the number of Title IV allowances held by the Permittee, but the Permittee may not use allowances as a defense to noncompliance with any other applicable requirement. The Permittee's emissions may not exceed any allowances that the facility lawfully holds under Title IV of the Federal Clean Air Act.

GG. **Air Pollution Emergency Episode** [15A NCAC 2D .0300]

Should the Director of the DAQ declare an Air Pollution Emergency Episode, the Permittee will be required to operate in accordance with the Permittee's previously approved Emission Reduction Plan or, in the absence of an approved plan, with the appropriate requirements specified in 15A NCAC 2D .0300.

HH. **Registration of Air Pollution Sources** [15A NCAC 2D .0200]

The Director of the DAQ may require the Permittee to register a source of air pollution. If the Permittee is required to register a source of air pollution, this registration and required information will be in accordance with 15A NCAC 2D .0202(b).

II. **Ambient Air Quality Standards** [15A NCAC 2D .0501(e)]

In addition to any control or manner of operation necessary to meet emission standards specified in this permit, any source of air pollution shall be operated with such control or in such manner that the source shall not cause the ambient air quality standards in 15A NCAC 2D .0400 to be exceeded at any point beyond the premises on which the source is located. When controls more stringent than named in the applicable emission standards in this permit are required to prevent violation of the ambient air quality standards or are required to create an offset, the permit shall contain a condition requiring these controls.

JJ. **General Emissions Testing and Reporting Requirements** [15A NCAC 2Q .0508(i)(16)]

If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ in support of a permit application, the Permittee shall perform such testing in accordance with the appropriate EPA reference method(s) as approved by the DAQ and follow the procedures outlined below. The Permittee must request **in writing** and receive approval from the DAQ for an alternate test method or procedure.

1. The Permittee shall submit a completed Protocol Submittal Form to the DAQ Regional Supervisor at least 45 days prior to the scheduled test date. A copy of the Protocol Submittal Form may be obtained from the Regional Supervisor.
2. The Permittee shall notify the Regional Supervisor of the specific test dates at least 15 days prior to testing in order to afford the DAQ the opportunity to have an observer on-site during the sampling program.
3. During all sampling periods, the Permittee shall operate the emission source(s) under maximum normal operating conditions or alternative operating conditions as deemed appropriate by the Regional Supervisor or his delegate.
4. The Permittee shall submit **two** copies of the test report to the DAQ. The test report shall contain at a minimum the following information:
  - a. a certification of the test results by sampling team leader and facility representative;
  - b. a summary of emissions results and text detailing the objectives of the testing program, the applicable state and federal regulations, and conclusions about the testing and compliance status of the emission source(s);
  - c. a detailed description of the tested emission source(s) and sampling location(s) process flow diagrams, engineering drawings, and sampling location schematics should be included as necessary;
  - d. all field, analytical, and calibration data necessary to verify that the testing was performed as specified in the applicable test methods;
  - e. example calculations for at least one test run using equations in the applicable test methods and all test results including intermediate parameter calculations; and
  - f. documentation of facility operating conditions during all testing periods and an explanation relating these operating conditions to maximum normal operation. If necessary, provide historical process data to verify maximum normal operation.
5. The testing requirement(s) shall be considered satisfied only upon written approval of the test results by the DAQ.
6. The DAQ will review emission test results with respect exclusively to the specified testing objectives as proposed by the Permittee and approved by the DAQ. The use of the test results beyond the stated objectives remains subject to the approval of the DAQ.

**KK. Reopening for Cause** [15A NCAC 2Q .0517]

1. A permit shall be reopened and revised under the following circumstances:
  - a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
  - b. additional requirements (including excess emission requirements) become applicable to a source covered by Title IV;
  - c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
  - d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 2Q .0513(c).
3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 2Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 2Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.
4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

**LL. Reporting Requirements for Non-Operating Equipment** [15A NCAC 2Q .0508(i)(16)]

The Permittee shall maintain a record of operation for permitted equipment noting whenever the equipment is taken from and placed into operation. During operation the monitoring recordkeeping and reporting requirements as prescribed by the permit shall be implemented within the monitoring period.

## PART II

The Permittee is hereby authorized to construct air emission source(s) and associated air pollution control device(s) and appurtenances listed in Section 1, Part II of this permit, in accordance with the completed air quality permit application 5300024.05B received May 13, 2005, and the completed air quality permit application 5300024.05C received December 12, 2005, including all plans, specifications, previous applications, and other supporting data, all of which are filed with the DAQ and are incorporated in Part II of this Air Quality Permit.

### SECTION 1: PERMITTED EMISSION SOURCE(S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE(S) AND APPURTENANCES

The following tables contain a summary of all permitted emission sources and associated air pollution control devices and appurtenances:

**Table 1: (Application 5300024.05B)**

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
F-C-1*	belt conveyor (30 inches in width each)	NA	NA
C-1*	One primary roll crusher (21 inches in width by 36 inches in length)		
VGf-1*	one vibrating grizzly feeder (175 tons per hour capacity)		
ES-CD*	Coatings dryer	N/A	N/A
ES-MR*	Mix room	CD-MRBH*	Bagfilter
ES-P3-SA-1* ES-P3-SA-2* ES-P3-SA-3*	Three sand application units of Plant 3 Making Room	CD-BMR3BH*	Bagfilter
ES-P1-SA-1** ES-P1-SA-2** ES-P1-SA-3**	Three sand application units of Plant 1 Making Room	CD-BMR1BH**	Bagfilter
ES-P2-SA-1** ES-P2-SA-2** ES-P2-SA-3**	Three sand application units of Plant 2 Making Room	CD-BMR2BH**	Bagfilter

\* These sources (ID Nos. F-C-1, C-1, VGf-1, ES-CD, ES-MR, ES-P3-SA-1, ES-P3-SA-2, ES-P3-SA-3) and associated control devices (ID Nos. CD-MRBH and CD-BMR3BH) are permitted under Part II Construction Permit as a 502(b)(10) change per NCAC 2Q .0523. The permit shield described in General Condition R does not apply.

\*\* These sources (ID Nos. ES-P1-SA-1, ES-P1-SA-2, ES-P1-SA-3, ES-P2-SA-1, ES-P2-SA-2, and ES-P2-SA-3) and associated control devices (ID Nos. CD-BMR1BH and CD-BMR2BH) are permitted under Part II Construction Permit as a 15A NCAC 2Q .0501(c)(2) modification. The permit shield described in General Condition R of Part I of the permit does not apply to these sources.

**[Note: the design specifications for CD-BMR2BH and CD-BMR3BH listed in Table 1 above were changed in Permit application 5300024.05C as a 501(c)(2) submitted on December 12, 2005.]**

**Table 2: (Application 5300024.05C)**

<b>Emission Source ID No.</b>	<b>Emission Source Description</b>	<b>Control Device ID No.</b>	<b>Control Device Description</b>
<b>NSPS Subpart OOO</b>  G4-C-1* G4-C-2* C4-C-3*  G4-C-4* G4-C-5* G4-C-6* G4-C-7* G4-C-8* G4-C-9* G4-C-10*  F-4*  VGF-4*  C-4*  G-4*  S-4A*  S-4B*	<b>Plant 4 NSPS-affected grinding and screening operations (175 tons per hour capacity) consisting of:</b>  36" Belt Conveyor 30" Oversize belt conveyor 30" Conveyor from scalping screen to hammermill (course material)  48" Rough service "Picking Table Conveyor" 36" Belt conveyor 30" Fines conveyor 30" Belt conveyor 30" Belt conveyor 30" Belt conveyor 30" Inclined conveyor 30" Shuttle belt conveyor  Dump hopper  Trio 40"x16" vibrating grizzly  Trio CT series 24"x36" overhead eccentric jaw crusher  Basic "Super" Pulv-O-Pactor  Four "Clayshaker" Model HX 5'x10' single deck vibrating screens  Simplicity 5'x16' double deck screen Model 95110BX	N/A	N/A
ES-BMR4*	<b>Plant 4</b> Brick Making Room, 95.0 tons per hour maximum throughput	CD-BMR4BH*	Bagfilter, Maximum air to cloth ratio 4.80 ACFM/square feet filter surface area
ES-K4*	One natural gas/propane/butane-fired brick tunnel kiln (41 million Btu per hour heat input, 13.5 tons per hour maximum fired brick production rate)	CD-K4-SCR*	Dry Lime Adsorber (DLA)
ES-P4-SA-1* ES-P4-SA-2* ES-P4-SA-3* ES-P4-SA-4*	four sand application units of Plant 4 brick making room	CD-BMR4BH*	Bagfilter, Maximum air to cloth ratio 4.80 ACFM/square feet filter surface area
ES-P2-SA-1 through ES-P2-SA-3	Three sand application units of Plant 2 Making Room	CD-BMR2BH*	Bagfilter, Maximum air to cloth ratio 3.20 ACFM/square feet filter surface area

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-P3-SA-1 through ES-P3-SA-3	Three sand application units of Plant 3 Making Room	CD-BMR3BH*	Bagfilter, Maximum air to cloth ratio 3.20 ACFM/square feet filter surface area

\* These sources and associated control devices are permitted under Part II Construction Permit as a 15A NCAC 2Q .0501(c)(2) modification. The Permittee shall submit an application to amend this permit within 12 months of start up of these sources. The permit shield described in General Condition R of Part I of the permit does not apply to these sources.

**[Note: the design specifications for CD-BMR2BH and CD-BMR3BH listed in Table 2 above were changed in Permit application 5300024.05C as a 501(c)(2) submitted on December 12, 2005.]**

## SECTION 2: SPECIFIC LIMITATIONS AND CONDITIONS

The air emission source(s) and associated air pollution control device(s) and appurtenances listed in Section 1 are subject to the following specific terms, conditions, and limitations, including the monitoring, recordkeeping, and reporting requirements as specified herein:

1. Any air emission sources or control devices authorized to construct in Section 1 must be constructed and maintained in accordance with the provisions contained herein and operated in accordance with provisions contained in Part I of this permit. The Permittee shall comply with applicable Environmental Management Commission Regulations, including Title 15A NCAC, Subchapter 2D .0515, .0516, .0521, .0524, .1806, and .1100 and Subchapter 2Q .0317, .0705 and .0711.
2. **NOTIFICATION REQUIREMENT** - In accordance with 15A NCAC 2Q .0523(a)(1)(C), for sources (ID Nos. F-C-1, C-1, VGF-1, ES-CD, ES-MR, ES-P3-SA-1, ES-P3-SA-2, and ES-P3-SA-3) and associated control devices (ID Nos. CD-MRBH and CD-BMR3BH), the **Permittee** shall notify the EPA (Air and EPCRA Enforcement Branch, EPA, Region 4, 61 Forsyth Street, Atlanta, GA 30303) **in writing** at least seven days before the change is made. The written notification shall include:
  - a. a description of the change at the facility;
  - b. the date on which the change will occur;
  - c. any change in emissions; and
  - d. any permit term or condition that is no longer applicable as a result of the change.
3. **NSPS Reporting Requirements** - In addition to any other notification requirements to the Environmental Protection Agency (EPA), the Permittee is required to **NOTIFY** the Regional Supervisor, DAQ, in **WRITING**, of the following for sources (ID No. VGF-1, F-C-1, and C-1):
  - i. the date construction (40 CFR 60.7) or reconstruction (40 CFR 60.15) of an affected facility is commenced, postmarked no later than 30 days after such date.
  - ii. the actual date of initial start-up of an affected facility, postmarked within 15 days after such date;
4. **NSPS Performance Testing** - As required by 15A NCAC 2D .0524, the following performance tests shall be conducted:

Affected Facility	Pollutant	Test Method
vibrating feeder (ID No. VGF-1)	Visible Emissions	Method 9 or 22
Conveyor (ID No. F-C-1)	Visible Emissions	Method 9 or 22
primary roll crusher (ID No. C-1)	Visible Emissions	Method 9 or 22

- i. All performance tests shall be conducted in accordance with EPA Reference Methods, contained in 40 CFR 60, Appendix A.
  - ii. The EPA Administrator retains the exclusive right to approve equivalent and alternative test methods, continuous monitoring procedures, and reporting requirements.
  - iii. Within 60 days after achieving the maximum production rate at which the facility will be operated, but not later than 180 days after the initial start-up of the affected facility, the Permittee shall conduct the required performance test(s) and submit a written report of the test(s) to the Regional Supervisor, DAQ.
  - iv. The source shall be responsible for ensuring, within the limits of practicality, that the equipment or process being tested is operated at or near its maximum normal production rate or at a lesser rate if specified by the Director or his delegate.
  - v. All associated testing costs are the responsibility of the Permittee.
  - vi. In determining compliance with 40 CFR 60.672(e), the owner or operator shall use Method 22 to determine fugitive emissions. The performance test shall be conducted while all affected facilities inside the building are operating.
  - vi. At least 45 days prior to performing any required emissions testing, the Permittee must submit a testing protocol to the Regional Supervisor, DAQ for review and approval. All testing protocols must be approved by the DAQ prior to performing such tests.
  - vii. To afford the Regional Supervisor, DAQ, the opportunity to have an observer present, the Permittee shall PROVIDE the Regional Office, in WRITING, at least 15 days notice of any required performance test(s).
5. Like-For-Like-Replacement - As provided in 40 CFR 60.670(d), 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, the new facility is exempt from the provisions of 40 CFR 60.672, 60.674, and 60.675 except as provided for in 60.670(d)(3). The Permittee shall comply with the reporting requirements of 40 CFR 60.676(a). Equipment covered under 40 CFR 60.670 shall comply the requirements of 15A NCAC 2D .0521.
6. The Permittee shall file a Title V Air Quality Permit Application for the air emission sources (ID Nos. ES-P1-SA-1, ES-P1-SA-2, ES-P1-SA-3, ES-P2-SA-1, ES-P2-SA-2, ES-P2-SA-3, ES-K1, and ES-K2) and associated control devices (ID Nos. CD-BMR1BH and CD-BMR2BH) listed in Section 1 on or before 12 months after commencing operation.
7. NSPS Reporting Requirements - In addition to any other notification requirements to the Environmental Protection Agency (EPA), the Permittee is required to NOTIFY the Regional Supervisor, DAQ, in WRITING, of the following for sources (ES-G4-C-1, ES-G4-C-2, ES-C4-C-3, ES-G4-C-4, ES-G4-C-5, ES-G4-C-6, ES-G4-C-7, ES-G4-C-8, ES-G4-C-9, ES-G4-C-10, ES-F-4, ES-VGF-4, ES-C-4, ES-G-4, ES-S-4A, and ES-S-4B):
- i. the date construction (40 CFR 60.7) or reconstruction (40 CFR 60.15) of an affected facility is commenced, postmarked no later than 30 days after such date.
  - ii. the actual date of initial start-up of an affected facility, postmarked within 15 days after such date;

8. NSPS Performance Testing - As required by 15A NCAC 2D .0524, the following performance tests shall be conducted:

Affected Facility	Pollutant	Test Method
Conveyor (ID N0. ES-G4-C-1)	Visible Emissions	Method 9 or Method 22
Conveyor (ID N0. ES-G4-C-2)	Visible Emissions	Method 9 or Method 22
Conveyor (ID N0. ES- C4-C-3)	Visible Emissions	Method 9 or Method 22
Conveyor (ID N0. Conveyor (ID N0. ES-G4-C-4)	Visible Emissions	Method 9 or Method 22
Conveyor (ID ES-G4-C-5)	Visible Emissions	Method 9 or Method 22
Conveyor (ID N0. ES-G4-C-6)	Visible Emissions	Method 9 or Method 22
Conveyor (ID N0. ES-G4-C-7)	Visible Emissions	Method 9 or Method 22
Conveyor (ID N0. ES-G4-C-8)	Visible Emissions	Method 9 or Method 22
Conveyor (ID N0. ES-G4-C-9)	Visible Emissions	Method 9 or Method 22
Conveyor (ID N0. ES-G4-C-10)	Visible Emissions	Method 9 or Method 22
Dump hopper (ID No. ES-F-4)	Visible Emissions	Method 9 or Method 22
Vibrating grizzly (ID No. ES-VGF-4)	Visible Emissions	Method 9 or Method 22
Jaw crusher (ID No. ES-C-4)	Visible Emissions	Method 9 or Method 22
Pulv-O-Pactor (ID No. ES-G-4)	Visible Emissions	Method 9 or Method 22
Single deck vibrating screens (ID No. ES-S-4A)	Visible Emissions	Method 9 or Method 22
Double deck vibrating screen (ID No. ES-S-4B)	Visible Emissions	Method 9 or Method 22

- i. All performance tests shall be conducted in accordance with EPA Reference Methods, contained in 40 CFR 60, Appendix A.
- ii. The EPA Administrator retains the exclusive right to approve equivalent and alternative test methods, continuous monitoring procedures, and reporting requirements.
- iii. Within 60 days after achieving the maximum production rate at which the facility will be operated, but not later than 180 days after the initial start-up of the affected facility, the Permittee shall conduct the required performance test(s) and submit a written report of the test(s) to the Regional Supervisor, DAQ.
- iv. The source shall be responsible for ensuring, within the limits of practicality, that the equipment or process being tested is operated at or near its maximum normal production rate or at a lesser rate if specified by the Director or his delegate.
- v. All associated testing costs are the responsibility of the Permittee.
- vi. In determining compliance with 40 CFR 60.672(e), the owner or operator shall use Method 22 to determine fugitive emissions. The performance test shall be conducted while all affected facilities inside the building are operating.

- vi. At least 45 days prior to performing any required emissions testing, the Permittee must submit a testing protocol to the Regional Supervisor, DAQ for review and approval. All testing protocols must be approved by the DAQ prior to performing such tests.
  - vii. To afford the Regional Supervisor, DAQ, the opportunity to have an observer present, the Permittee shall PROVIDE the Regional Office, in WRITING, at least 15 days notice of any required performance test(s).
9. The Permittee shall file a Title V Air Quality Permit Application for the air emission sources and associated control devices listed in Part II, Section 1 Table 2 on or before 12 months after commencing operation.

### **SECTION 3: GENERAL CONDITIONS**

This section describes terms and conditions applicable to the construction of the air emission source(s) and associated air pollution control device(s) listed in Section 1. Unless otherwise specified herein all references to the “permit” in this section apply only to Part II of the permit.

#### **A. Operating Conditions**

All operating conditions for the air emission source(s) and associated air pollution control device(s) listed in Section 1 are under Part I of this permit.

#### **B. General Provisions**

1. This permit is nontransferable by the Permittee. Future owners and operators must obtain a new Air Quality Permit from the DAQ.
2. This issuance of this permit in no way absolves the Permittee of liability for any potential civil penalties which may be assessed for violations of state law which have occurred prior to the issuance date of this permit.
3. A violation of any term or condition of Part II of this permit shall subject the Permittee to enforcement pursuant to NCGS 143-215.114A, 143-215.114B, and 143-215.114C, including assessment of civil and/or criminal penalties.

#### **C. Submissions (reports, test data, monitoring data, notifications, and requests for renewal)**

Except as otherwise specified herein, two copies of all documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required by this permit shall be submitted to the appropriate Regional Office. Refer to the Regional Office address on the cover page of this permit.

#### **D. Part II Renewal Request**

The Permittee shall request renewal of the emission source(s) and associated air pollution control device(s) listed in Section 1 at the same time as specified in Part I, Section 3 - General Condition K of this permit.

#### **E. Annual Fee Payment**

The Permittee shall pay all fees in accordance with 15A NCAC 2Q .0200 and in conjunction with Part I, Section 3 - General Condition W of this Air Quality Permit.

#### **F. Reporting Requirements**

Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:

1. changes in the information submitted in the application;
2. changes that modify equipment or processes; or
3. changes in the quantity or quality of materials processed.

If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.

G. **Termination, Modification, and Revocation of the Permit**

The Director may terminate, modify, or revoke and reissue this permit if:

1. the information contained in the application or presented in support thereof is determined to be incorrect;
2. the conditions under which the permit or permit renewal was granted have changed;
3. violations of conditions contained in the permit have occurred; or
4. the Director finds that termination, modification, or revocation and reissuance of the permit is necessary to carry out the purpose of NCGS Chapter 143, Article 21B.

H. **Inspection and Entry**

Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:

1. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
2. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
3. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.

I. **Circumvention** - STATE ENFORCEABLE ONLY

The facility shall be properly operated and maintained at all times in a manner that will effect an overall reduction in air pollution. Unless otherwise specified by this permit, no emission source may be operated without the concurrent operation of its associated air pollution control device(s) and appurtenances.

ATTACHMENT

**List of Acronyms**

<b>AOS</b>	Alternate Operating Scenario
<b>BACT</b>	Best Available Control Technology
<b>Btu</b>	British thermal unit
<b>CEM</b>	Continuous Emission Monitor
<b>CFR</b>	Code of Federal Regulations
<b>CAA</b>	Clean Air Act
<b>DAQ</b>	Division of Air Quality
<b>DENR</b>	Department of Environment and Natural Resources
<b>EMC</b>	Environmental Management Commission
<b>EPA</b>	Environmental Protection Agency
<b>FR</b>	Federal Register
<b>GACT</b>	Generally Available Control Technology
<b>HAP</b>	Hazardous Air Pollutant
<b>MACT</b>	Maximum Achievable Control Technology
<b>NCAC</b>	North Carolina Administrative Code
<b>NCGS</b>	North Carolina General Statutes
<b>NESHAP</b>	National Emission Standards for Hazardous Air Pollutants
<b>NO<sub>x</sub></b>	Nitrogen Oxides
<b>NSPS</b>	New Source Performance Standard
<b>OAH</b>	Office of Administrative Hearings
<b>PM</b>	Particulate Matter
<b>PM<sub>10</sub></b>	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
<b>POS</b>	Primary Operating Scenario
<b>PSD</b>	Prevention of Significant Deterioration
<b>SIC</b>	Standard Industrial Classification
<b>SIP</b>	State Implementation Plan
<b>SO<sub>2</sub></b>	Sulfur Dioxide
<b>tpy</b>	Tons Per Year
<b>VOC</b>	Volatile Organic Compound