

Jeb Bush
Governor

Department of Environmental Protection

Southwest District
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926
Telephone: 813-632-7600

Colleen M. Castille
Secretary

File

NOTICE OF INTENT TO ISSUE AIR PERMIT

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

In the Matter of an
Application for Permit by:

Seamus Burlingame, CEO
Eagle Roofing Products Florida LLC
3546 N. Riverside Avenue
Rialto, CA 92377

DEP File No. 1190045-001-AC
Sumter County

Dear Mr. Burlingame:

Enclosed is one copy of the Draft air permit for the Eagle Roofing Products Florida LLC facility located at 1575 East County Road 470, Sumterville, Sumter County. The Department's Intent to Issue Air Permit and the Public Notice of Intent to Issue Air Permit are also included.

The Public Notice of Intent to Issue Air Permit must be published one time only, as soon as possible, in the legal advertisement section of a newspaper of general circulation in the area affected, pursuant to the requirements Chapter 50, Florida Statutes. Proof of publication, i.e., newspaper affidavit, must be provided to the Department's Southwest District Office within seven days of publication. Failure to publish the notice and provide proof of publication may result in the denial of the permit.

Please submit any written comments you wish to have considered concerning the Department's proposed action to Mara Grace Nasca, District Air Program Administrator at the above letterhead address. If you have any other questions, please contact the project engineer, Danny Stubbs at 813-632-7600, ext. 159.

Sincerely,

Mara Grace Nasca
Mara Grace Nasca
District Air Program Administrator
Southwest District

MGN/DS

Enclosures

In the Matter of an
Application for Permit by:

Seamus Burlingame, CEO
Eagle Roofing Products Florida LLC
3546 N. Riverside Avenue
Rialto, CA 92377

DEP File No. 1190045-001-AC
Sumter County

INTENT TO ISSUE AIR PERMIT

The Department of Environmental Protection (Department) gives notice of its intent to issue an air permit (copy of Draft permit enclosed) for the proposed project, detailed in the application specified above for the reasons stated below.

The applicant, Eagle Roofing Products Florida LLC, applied on September 15, 2006, to the Department for an after-the-fact air construction permit for its facility located at 1575 East County Road 470, Sumterville, Sumter County. The permit authorizes Eagle Roofing Products Florida LLC to construct and begin initial operation of a concrete roof tile manufacturing facility with a design capacity of approximately 315 million tiles per year. This facility will have the capability of manufacturing standard concrete roof tiles, comprised of plaster and gray cement; and lightweight concrete roof tiles, comprised of shale and gray cement. The primary pollutants generated at this facility include volatile organic compounds (VOC) and particulate matter. This facility will be subject to a VOC emissions limitation of 25 tons per any consecutive 12-month period. The Department has permitting jurisdiction under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, and 62-212. The above actions are not exempt from permitting procedures. The Department has determined that an air permit is required for this project.

The Department intends to issue this air permit based on the belief that reasonable assurances have been provided to indicate that operation of these emission units will not adversely impact air quality, and the emission units will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C.

Pursuant to Section 403.815, F.S., and Rule 62-110.106(7)(a)1., F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue Air Permit. The notice shall be published one time only in the legal advertisement section of a newspaper of general circulation in the area affected. Rule 62-110.106(7)(b), F.A.C., requires that the applicant cause the notice to be published as soon as possible after notification by the Department of its intended action. For the purpose of these rules, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the Department at the address or telephone number listed below. The applicant shall provide proof of publication to the Department of Environmental Protection, 13051 N. Telecom Parkway, Temple Terrace, FL 33637-0926, (Telephone: 813-632-7600, Fax: 813-632-7668). You must provide proof of publication within seven days of publication, pursuant to Rule 62-110.106(5), F.A.C. No permitting action for which published notice is required shall be granted until proof of publication of notice is made by furnishing a uniform affidavit in substantially the form prescribed in Section 50.051, F.S. to the office of the Department issuing the permit. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rules 62-110.106(9) & (11), F.A.C.

The Department will issue the final permit with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments concerning the proposed permit issuance action for a period of fourteen days from the date of publication of Public Notice of Intent to Issue Air Permit. Written comments should be provided to the Department of Environmental Protection, 13051 N. Telecom Parkway, Temple Terrace, FL 33637-0926. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.

The Department will issue the permit with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57 F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S. or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.


Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation is not available in this proceeding.

Any person may request to obtain additional information, a copy of the application (except for information entitled to confidential treatment pursuant to Section 403.111, F.S.), all relevant supporting materials, a copy of the permit draft, and all other materials available to the Department that are relevant to the permit decision. Additionally, the Department will accept written comments concerning the proposed permit issuance action for a period of 14 (fourteen) days from the date of publication of "Public Notice of Intent to Issue Permit." Requests and written comments filed should be provided to the Florida Department of Environmental Protection at 13051 N. Telecom Parkway, Temple Terrace, FL 33637-0926, to the attention of Mara Grace Nasca (phone no. 813-632-7600) referencing the DEP file number listed above. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Mara Grace Nasca
District Air Program Administrator
Southwest District

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Seamus Burlingame, CEO
 Eagle Roofing Products Florida LLC
 3546 N. Riverside Avenue
 Rialto, CA 92377

1190045-001-AC ITI DS 12/05/2006

2. Article Number
(Transfer from service label)

7004 2510 0006 5493 7760

PS Form 3811, February 2004

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee

B. Received by (Printed Name) Agent
 Addressee

C. Date of Delivery

D. Is delivery address different from item 1? Yes
 No

If YES, enter delivery address below: No

3. Service Type

Certified Mail Express Mail

Registered Return Receipt for Merchandise

Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

Domestic Return Receipt

102595-02-M-1540

UNITED STATES POSTAL SERVICE
SAN BERNARDINO CA 924



First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

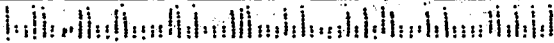
08 DEC 2005 PM 7 T

• Sender: Please print your name, address, and ZIP+4 in this box •

Dept. of Environmental
Protection
Dept. of Environmental Protection
Air Resource Management
13051 North Telecom Parkway
Temple Terrace, FL 33637-8226
DEC 11 2006

pp/

Southwest District



26

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Intent to Issue Air Permit (including the Public Notice of Intent to Issue Air Permit and the Draft permit) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 12/5/06 to the person(s) listed:

Seamus Burlingame, CEO *
Eagle Roofing Products Florida LLC
3546 N. Riverside Avenue
Rialto, CA 92377

Eric Frohnapple, P.E.
Kleinfelder
2011 North Capital Avenue
San Jose, CA 95131

Ms. Sandra Glenn, P.E.* (Third Party)
MonierLifetile LLC
P.O Box 537
Decatur, GA 30031

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Carol L. Moore 12/5/06
(Clerk) (Date)

7004 2510 0006 5493 7777

U.S. Postal Service™	
CERTIFIED MAIL™ RECEIPT	
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>	
For delivery information visit our website at www.usps.com ®	
OFFICIAL USE	
Postage \$	
Return (Endorsement)	Sandra L. Glenn, P.E., Third Party
Restricted (Endorsement)	Monier Lifetile LLC
Total Postage	POB 537
	Decatur, GA 30031
Sent To	
Street, Apt. No., or PO Box No.	
City, State, ZIP+4	
PS Form 3800, June 2002 See Reverse for Instructions	

7004 2510 0006 5493 7760

U.S. Postal Service™	
CERTIFIED MAIL™ RECEIPT	
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>	
For delivery information visit our website at www.usps.com ®	
OFFICIAL USE	
Postage \$	
Certified Fee	
Return (Endorsement)	Seamus Burlingame, CEO
Restricted (Endorsement)	Eagle Roofing Products Florida LLC
Total Postage	3546 N. Riverside Avenue
	Rialto, CA 92377
Sent To	1190045-001-AC ITI DS 12/05/2006
Street, Apt. No., or PO Box No.	
City, State, ZIP+4	
PS Form 3800, June 2002 See Reverse for Instructions	

PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DEP File No. 1190045-001-AC
Eagle Roofing Products Florida LLC
Sumter County

The Department of Environmental Protection (Department) gives notice of its intent to issue an after-the-fact air permit to Eagle Roofing Products Florida LLC, for the facility located at 1575 East County Road 470, Sumterville, Sumter County. The permit authorizes Eagle Roofing Products Florida LLC to construct and begin initial operation of a concrete roof tile manufacturing facility with a design capacity of approximately 315 million tiles per year. This facility will have the capability of manufacturing standard concrete roof tiles, comprised of plaster and gray cement; and lightweight concrete roof tiles, comprised of shale and gray cement. The primary pollutants generated at this facility include volatile organic compounds (VOC) and particulate matter. This facility will be subject to a VOC emissions limitation of 25 tons per any consecutive 12-month period. MAILING ADDRESS: Eagle Roofing Products Florida LLC, 3546 N. Riverside Avenue, Rialto, CA 92377 to the attention of Mr. Seamus Burlingame, CEO.

The Department will issue the Final permit with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments concerning the proposed permit issuance action for a period of fourteen days from the date of publication of this Public Notice of Intent to Issue Air Permit. Written comments should be provided to the Department of Environmental Protection, 13051 N. Telecom Parkway, Temple Terrace, FL 33637-0926. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.

The Department will issue the final permit with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57, F.S. before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

Mediation is not available in this proceeding.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S. or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Florida Department of Environmental Protection, Southwest District, 13051 N. Telecom Parkway, Temple Terrace, Florida.

The complete project file includes the application, technical evaluation, Draft permit, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact Mara Grace Nasca, District's Air Program Administrator, at 13051 N. Telecom Parkway, Temple Terrace, Florida or call 813-632-7600, for additional information.

Any person may request to obtain additional information, a copy of the application (except for information entitled to confidential treatment pursuant to Section 403.111, F.S.), all relevant supporting materials, a copy of the permit draft, and all other materials available to the Department that are relevant to the permit decision. Additionally, the Department will accept written comments concerning the proposed permit issuance action for a period of 14 (fourteen) days from the date of publication of "Public Notice of Intent to Issue Permit." Requests and written comments filed should be provided to the Florida Department of Environmental Protection at 13051 N. Telecom Parkway, Temple Terrace, FL 33637-0926, to the attention of Mara Grace Nasca (phone no. 813-632-7600) referencing the DEP file number listed above. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.



Jeb Bush
Governor

Department of Environmental Protection

Southwest District
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926
Telephone: 813-632-7600

Colleen M. Castille
Secretary

PERMITTEE:

Eagle Roofing Products Florida LLC
3546 N. Riverside Avenue
Rialto, CA 92377

DRAFT Permit No.: 1190045-001-AC

County: Sumter

Effective Date:

Expiration Date: 11/30/2008

Project: Roofing Tile Manufacturing Facility

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-204 through 62-297 & 62-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the after-the-fact construction and initial operation of a synthetic non-Title V concrete roof tile manufacturing facility with a design capacity of approximately 315 million tiles per year. This facility will have the capability of manufacturing standard concrete roof tiles, comprised of plaster and gray cement and lightweight concrete roof tiles, comprised of shale and gray cement. Both standard and lightweight tiles can be produced in a variety of shapes depending upon the mold surface upon which the concrete tiles are formed. The primary facility pollutants will include particulate matter and volatile organic compound (VOC) emissions. Particulate matter emissions will be generated primarily during the receiving, handling and transfer of sand, shale and cement; while VOC emissions will be generated when form molds, used to produce roof tiles, are coated with a mold release compounds before concrete is extruded on to them.

FACILITY REGULATORY CLASSIFICATION

The facility is considered a Synthetic Minor Non-Title V Source based upon a volatile organic compound (VOC) emission limitation and the necessity of baghouses to control particulate matter emissions. These restrictions are necessary to limit emissions of the facility below Title V permitting thresholds of Chapter 62-213, F.A.C.

FACILITY DESCRIPTION – PERMITTED EMISSION UNITS

Emission Unit ID No. 001 – Sand and Shale Receiving and Handling System

This emission unit consists of sand and shale receiving and handling equipment. Bottom dump trucks deliver sand or shale to one of twelve enclosed, drive-over 220 ton receiving hoppers. The sand is delivered with a moisture content of approximately 6% while the shale is delivered with a moisture content of approximately 11%. The truck dumping area is an above-grade, "A-Frame" corrugated metal structure, open at both the entrance and exit. Conveyors located beneath the truck dump are enclosed in the framework. Sand or shale is conveyed from the receiving hoppers through a series of covered conveyor belts to a transfer tower. Material from the reject recycle tile system (processed in emissions units 005 and 006) may be blended in concentrations up to 7% by weight with the raw material feeds from truck

PERMITTEE:
Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC
Project: Roofing Tile Manufacturing Facility

unloading. This blending occurs on the covered conveyor belt located upstream of the transfer tower. Material is then transferred by covered conveyor to the screening process and then into one of two 100-ton compartments of the 200-ton storage bin. Material is then transferred by covered conveyor from the 200-ton storage bin to the aggregate/cement mixing building. This emission unit has a maximum throughput rate of 384 tons/hour. This rate includes both truck receiving and reject recycle tile material feeds combined. The maximum annual throughput rate, limited by tile production, is 1.11 MM tons/year.

Emission points consists of the following material transfer points:

- Truck deliveries to the 12 receiving hoppers,
- Receiving hopper to 4 belt conveyor drop points
- 10 conveyor belt drop points,
- The screening process, and
- The 200-ton storage bin.

To control particulate matter emissions, the conveyor belts used to transfer materials to the screening process and storage bin are covered. Conveyor belt transfer points and hopper release points are enclosed and water spray is activated, on an as-needed basis, to maintain sand moisture at 6 to 10 percent, and shale moisture content at 17 to 18 percent. Particulate matter emissions from the screening process are considered fugitive. However, particulate matter emissions from the screening process may be controlled by the dust collection system utilized by the reject tile crusher/screens (emission unit 005). The design airflow of the dust collection system at this screening process pickup point is approximately 800 dscfm to achieve 90% or greater collection. The controlled air is vented through the baghouse on emission unit 005, which has a control efficiency of 99.9%.

Emission Unit ID No. 002 – Cement Storage Silo (West)

This emission unit consists of a cement storage silo. Gray cement is pneumatically loaded from trucks into the silo where it is stored and later transferred through an enclosed screw conveyor into its own 60 ton hopper located in the aggregate/cement mixing building. The silo has a storage capacity of 350 tons, a maximum loading rate of 22.5 tons/hour and a maximum annual throughput rate of 197,100 tons/year. This silo is also equipped with two Cyclonaire Model 84-DC-25 baghouses, operating in parallel, to control particulate matter. Each baghouse is designed for 2,685 dscfm airflow and has a control efficiency of 99.9%.

Emission Unit ID No. 003 – Cement Storage Silo (East)

This emission unit description is identical to emission unit 002.

Emission Unit ID No. 004 – Tile Production Building

This emission unit includes several activities occurring within the tile production building. Specifically, this includes: (1) aggregate/cement mixing, (2) pigment mixing and (3) tile production.

- (1) Aggregate/Cement Mixing Area - This portion of the emission unit consists of activities associated with sand or shale and cement mixing. Sand or shale and cement from emission units 001, 002 and 003 are premixed together, in an enclosed area designated as the "Surge Bin Area". Upon demand generated by operation of any of the four roofing tile manufacturing lines, sand or shale is automatically obtained from the base of one of the two 100-ton compartments of the 200-ton storage bin and transfers, via covered conveyor belts, to one of two 55-ton surge hoppers (containing either

PERMITTEE:
Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC
Project: Roofing Tile Manufacturing Facility

shale or sand). Also upon demand, gray cement is automatically obtained from the cement silos and transferred via enclosed screw conveyor to the two 60-ton cement hoppers.

Sand or shale is released from the hopper(s) to a separate "metering conveyor belt" for each individual roofing tile line. Cement is released from the hopper(s) to an enclosed screw conveyor onto a separate, enclosed metering conveyor belt for each individual roofing tile line. Sand or shale and cement are released from the metering conveyor belts onto raw material conveyor belts for each roofing tile line. Sand or shale, and cement on each of the four (4) raw material conveyor belts are premixed in their own mixer. The mixed raw material is then transported via the raw material conveyor belts (one for each roofing tile line) through a narrow portal in the wall separating the Surge Bin Area from the main production building.

The maximum throughput for this equipment is 157.5 tons/hour and 1.38MM tons/year annually. Baghouse dust collectors (one for each of the four process lines) are used to control particulate matter emissions resulting from filling the cement hoppers, mixing activities and production line raw material feeds. Each baghouse is designed for 3,500 dscfm airflow and has a control efficiency of 99.9%. The four dust collectors discharge inside the building enclosure.

Note: In addition to the sand, shale and cement hoppers, an additional 60-ton surge hopper will be present for potential future use of other raw materials (possibly fly ash and white cement). This hopper will be installed in the Surge Bin Area, but will not be functionally connected to the roofing tile manufacturing lines or any raw material receiving or storage equipment.

- (2) Pigment Mix Sub Area - This portion of the emission unit consists of eight pigment mixing vats (five 800 gallon tanks and three 500 gallon tanks). The tops of these tanks are covered and the tanks are enclosed within the production building. Bagged dry pigment is added to the vats as needed and mixed with water. The maximum throughput for this emission unit is 0.9 tons/hour and 7,884 tons/year annually. A baghouse dust collector is used to control particulate matter generated from this activity. This baghouse discharges inside the building enclosure. The baghouse is designed for 3,500 dscfm airflow and has a control efficiency of 99.9%.
- (3) Tile Production Area - This portion of the emission unit combines sand or shale and cement, processed in the aggregate/cement mixing area, pigment and water as needed. Mixed raw material transported via a raw material conveyor belt (from the Surge Bin Area) is transferred onto two mixing conveyor belts (two for each roofing tile line). This material is mixed with water and calcium chloride using 18 beaters (9 beaters per conveyor) to create a slurry used to form roofing tiles. Colored pigment can be added if "color through" tiles are being produced. Eaglelite (a surfactant) can also be added if lightweight tiles are being produced. Calcium chloride and Eaglelite solution is piped from the storage tank area. This slurry is conveyed from the mixing conveyor belts to an extruder where the slurry is molded into a wet tile.

Particulate matter emissions are considered negligible because at this stage of the process, the materials are in a wet state. Two mold release compounds are used in this process: (1) a low-VOC vegetable oil compound used for all roofing tiles types except for "trim" tiles; (2) a naphthenic distillate compound used only for production of "trim" tiles. Form molds are coated with mold release compounds before the concrete is extruded on the mold. Additional surface and decorative

PERMITTEE:
Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC
Project: Roofing Tile Manufacturing Facility

embellishment color is added to the molded concrete depending upon order specifications. The tiles are then cured and an acrylic sealer is applied to protect the surface pigment from fading.

The tile production area consists of four production lines, each with a production capacity of 150 tiles per minute. Maximum design throughput is approximately 36,000 tiles/hour and approximately 315 million tiles per year. Fugitive VOC emissions from mold release oil and acrylic sealers are emitted from the building.

Emission Unit ID No. 005 – Reject Tile Recycling Crusher System

This emission unit receives reject tile for recycling. Reject tiles are manually placed into a primary hopper with spikes rotating and breaking tile into smaller pieces. From the hopper, the material is transported via covered conveyor belt, to a jaw crusher. Crushed material is then transferred via covered conveyor belt to the vertical shaft impactor (VSI). After passing through the VSI, material is transferred via covered belt to an enclosed 2-deck shaker-screen. Oversized material is sent back to the VSI via covered conveyor belt. Undersized (“fine”) material is transferred by covered conveyor belt to the 100 ton bulk crushed tile storage bin/hopper (emission unit 006) where it is eventually conveyed back to the sand and shale handling system (emission unit 001) as raw aggregate.

Additionally, recycled materials generated from housekeeping and maintenance operations at the facility is manually transported to the fines material loading hopper. This material is also feed to the 2-deck shaker-screen via covered conveyor and processed.

The maximum throughput for this emission unit is 30 tons/hour and 78,840 tons/year annually. A dust collection system, with an overall design airflow of 13,600 dscfm and a control efficiency of 99.9%, is used to control particulate matter emissions from this system. The system has a total of 14 dust collector pickup points within the recycle tile crusher system. The points are as follows: (1) Dump hopper; (2) BC-21 feed; (3) BC-22 feed; (4) BC-27 feed; (5) Jaw Crusher inlet; (6) Jaw Crusher discharge / BC-23 feed; (7) BC-25 to BC-23 feed; (8) “Fine Materials” BC-28 feed; (9) BC-24 feed; (10) VSI discharge to BC-24; (11) VSI inlet; (12) Screener inlet; (13) BC-26 feed; and (14) BC-25 feed. Additionally, the dust collector system has a pickup point located at the screen tower in emission unit 001.

Emission Unit ID No. 006 – 100 Ton Bulk Crushed Tile Storage Bin

This emission unit receives undersized (“fine”) material transferred by covered conveyor belt from the enclosed 2-deck shaker-screen. This material conveyed back to the sand and shale handling system (emission unit 001) as raw aggregate. The 100 ton bulk crushed tile storage bin/hopper is equipped with a baghouse filter to control particulate matter emissions. This baghouse is designed for 532 dscfm airflow and has a control efficiency of 99.9%.

PERMITTEE:
Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC
Project: Roofing Tile Manufacturing Facility

FACILITY DESCRIPTION – EXEMPT EMISSION UNITS AND/OR ACTIVITIES

Curing Enclosure Area

This area consists of 40 curing enclosures (10 per tile line) located in the tile production building. Propane fired burners are used to heat the curing enclosures. Concrete tiles are cured within a controlled temperature range (120 °F – 140 °F) as they are held in the curing enclosure for over 3.5 hours. The maximum propane usage rate for this emission unit is 240 cf/hour (6.557 gals./hour.). This process emits uncontrolled product of combustion pollutants from the propane burners. Based on the information supplied by the applicant in the permit application dated September 15, 2006, this activity is exempted from permitting pursuant to Generic Emissions Unit Exemption Rule 62-210.300(3)(b)1., F.A.C.

Bulk Material Tanks

This facility has four 8000-gallon tanks used to store mold release oil (E-46), calcium chloride, and acrylic sealer. Based on the information supplied by the applicant in the permit application dated September 15, 2006, this activity is exempted from permitting pursuant to Generic Emissions Unit Exemption Rule 62-310.300(3)(b)1., F.A.C. Specifically, mold release oil (E-46) contained in tanks 1 and 2 will have negligible emissions due to its extremely low vapor pressure and VOC content. The calcium chloride / water mixture contained in tank 3 is not considered to be a regulated compound. Finally, the acrylic sealer contained in tank 4, contains the VOC, 2-ethylhexyl acrylate. However, potential emissions from this tank were estimated below 10 lb/year when evaluated using the EPA Tanks v4.0.9 modeling program.

PERMITTEE:
Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC
Project: Roofing Tile Manufacturing Facility

FACILITY INFORMATION SUMMARY

Location: 1575 East County Road 470, Sumterville, Sumter County

Facility UTM Coordinates: 17-394.6 East 3179.9 North

Latitude: 28° 44' 33" **Longitude:** 82° 04' 45"

Facility ID No.: 1190045

<u>E.U. ID No.</u>	<u>Description</u>
001	Sand and Shale Receiving and Handling System (NSPS & Rule 296.414, F.A.C.)
002	Cement Storage Silo 1 – West (Rule 296.414, F.A.C.)
003	Cement Storage Silo 2 – East (Rule 296.414, F.A.C.)
004	Tile Production Building (NSPS)
005	Reject Tile Recycling Crusher System (NSPS & Rule 296.414, F.A.C.)
006	100 Ton Bulk Crushed Tile Storage Bin (NSPS & Rule 296.414, F.A.C.)

NOTE: Please reference the Permit No., Facility ID, and Emission Unit ID in all correspondence, test report submittals, applications, etc.

Permit History

- NA (this is the first air permit for this facility)

Attachments To This Permit

- General Conditions, version dated 11/1/2005
- GENERAL PROVISIONS – Title 40 Code of Federal Regulations, Subpart A
- ATTACHMENT NSPS - New Source Performance Standards (NSPS) of Title 40 Code of Federal Regulations (CFR) Part 60, Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants

Title V Applicability

Facility emissions are based on information submitted by the applicant, including calculated potential emissions and the expected continued proper operation of the emission sources and associated emission controls. As a result, this facility is currently exempted from Title V permitting and is considered a synthetic minor non-Title V source based on the pollutants VOC and particulate matter.

PERMITTEE:
Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC
Project: Roofing Tile Manufacturing Facility

Rule Applicability

- Rule 62-296.414, F.A.C. - Concrete Batching Plants.
- NSPS Part 60 Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants.

SPECIFIC CONDITIONS:

A. FACILITY-WIDE CONDITIONS

A1. General Conditions – A part of this permit is the attached 15 General Conditions.
[Rule 62-4.160, F.A.C.]

A2. Other Requirements – Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Florida Administrative Code Rules 62-204, 62-210, 62-212, 62-213, 62-296, 62-297 and 62-4 or any other requirements under Federal, State, or Local law.
[Rule 62-210.300, F.A.C.]

Operational And Emission Limitations

A3. Operational Hours – The facility is permitted to operate 8,760 hours per year (i.e., no restrictions on operating hours).
[Rule 62-210.200, Definitions-(PTE), F.A.C.]

A4. General Visible Emission Limitation - Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.
[Rules 62-296.320(4)(b)1. & 4., F.A.C.]

A5. Hazardous Air Pollutant (HAP) Limitation – Use of raw materials that emit hazardous air pollutants (HAPs) are not allowed at this facility.
[Rule 62-210.200(PTE), F.A.C.]

A6. Reasonable Precautions - All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provisions in Rule 62-296.320(4)(c), F.A.C. The following shall constitute reasonable precautions:

- (a) Management of roads, parking areas, stock piles, and yards, which shall include one or more of the following:
 1. Paving and maintenance of roads, parking areas, and yards.

PERMITTEE:
Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC
Project: Roofing Tile Manufacturing Facility

2. Application of water or environmentally safe dust-suppressant chemicals when necessary to control emissions.
 3. Removal of particulate matters from roads and other paved areas under control of the owner or operator to mitigate re-entrainment, and from building or work areas to reduce airborne particulate matter.
 4. Reduction of stockpile height or installation of wind breaks to mitigate wind entrainment of particulate matters from stock piles.
 5. Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
- (b) Use of spray bar, chute, or partial enclosure to mitigate emissions at the drop point to the truck.

[Rules 62-296.414(2) and 62-296.320(4)(c), F.A.C.]

A7. Objectionable Odor - The permittee shall not cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor. An objectionable odor is any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance.

[Rules 62-210.200 and 62-296.320(2), F.A.C.]

A8. Circumvention - The permittee shall not circumvent any air pollution control device, or allow the emissions of air pollutants without the applicable air pollution control device operating properly.

[Rule 62-210.650, F.A.C.]

A9. Excess Emissions (Startup/Shutdown/Malfunction) - Excess emissions resulting from startup, shutdown, or malfunction shall be permitted providing (1) Best operational practices to minimize emissions are adhered to and (2) The duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for a longer duration.

*{**Permitting Note:** This condition does not apply to emission units subject to NSPS and/or NESHAPS regulations.}*

[Rule 62-210.700(1), F.A.C.]

A10. Excess Emissions (Poor Maintenance/Operation, Equipment/Process Failure) - Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited.

[Rule 62-210.700(4), F.A.C.]

A11. Accuracy of Equipment - Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

PERMITTEE:
Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC
Project: Roofing Tile Manufacturing Facility

[Rule 62-297.3510(5)(b), F.A.C.]

Compliance Testing Requirements

A12. Compliance Test Notification

- A. **Initial NSPS Performance Test(s)** - The permittee shall notify the Air Compliance Section of the Department's Southwest District Office, postmarked not less than 30 days prior to the date on which the initial NSPS performance test(s) are to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted.
- B. **Other Initial Tests, and All Subsequent Test(s)** - The permittee shall notify the Air Compliance Section of the Department's Southwest District Office at least 15 days prior to the date on which each formal compliance test is to begin of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted.

[Rule 62-297.310(7)(a)(9), F.A.C.; 40 CFR 60.7(a)6. and 60.8(d)]

A13. Initial Startup Notification – The permittee shall notify the Air Compliance Section of the Department's Southwest District Office, in writing of the actual date of initial startup. The written notification shall be postmarked within 15 days after such date.

[40 CFR 60.7(a)3.]

A14. Test Reports Submittal – All test reports of compliance demonstrations required by this permit shall be submitted to the Air Compliance Section of the Department's Southwest District Office, within forty-five (45) days after the test is complete. For the emission units subject to initial NSPS testing, the test reports shall also be submitted no later than 180 days after initial startup.

[Rule 62-297.310(8), F.A.C. and 40 CFR 60.8(a).]

A15. Special Testing Requirement - When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of the said tests to the Department.

[Rule 62-297.310(7)(b), F.A.C.]

Recordkeeping And Reporting Requirements

A16. Records Retention – All daily records required by this permit shall be completed within 3 business days and all monthly records shall be completed by the end of the following month. All records required by this permit shall be maintained at the facility for at least three years, unless otherwise noted, and be made available to the Department for inspection upon request.

PERMITTEE:
Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC
Project: Roofing Tile Manufacturing Facility

[Rule 62-4.160(14)(b), F.A.C.]

A17. Excess Emissions Reporting – In case of excess emissions resulting from malfunctions, each source shall notify the Department’s Southwest District Office in accordance with Section 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department.
[Rule 62-210.700(6), F.A.C.]

A18. Excess Emissions Recordkeeping – The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of this facility which results in excess emissions; any malfunction of the air pollution control equipment; and any periods during which a continuous monitoring system or monitoring device is inoperative. Records shall be maintained at the facility and be available for inspection by the Department upon request.
[Rules 62-4.070(3) and 62-210.700, F.A.C.]

Annual Operating Report (AOR)

A19. AOR – Submit to the Air Compliance Section of the Department’s Southwest District Office each calendar year and on or before March 1, an annual operating report (DEP Form 62-210.900(5)) for the preceding calendar year. The Annual Operating Report shall include the emissions from activities that are “exempt” from permitting, in order to demonstrate continued compliance that this facility is a synthetic non-Title V source.
[Rules 62-4.070(3) and 62-210.370(3), F.A.C.]

Operation Permit Application

A20 Initial Operation Permit - A completed application* for an initial operation permit shall be submitted to the Air Permitting Section of the Department’s Southwest District Office no later than 180 days after the actual startup date as specified in the Initial Startup Notification of Specific Condition No. A13. To properly apply for an operation permit, the applicant shall submit the following:

- A. The appropriate Department application form [see Rule 62-210.900, F.A.C. (Forms and Instructions)];
- B. The appropriate operation permit application fee(s);
- C. Copies of the records specified in Specific Condition Nos. B7, B8, C6, D7 and E9 for the most recent 2 months of operation;
- D. Test reports as required by Specific Condition Nos. A14, B3.A, C2.A, D3.A, E4.A.

[Rules 62-4.070(3), 62-4.050, 62-210.300(2), 62-297.310(7) and 62-210.900, F.A.C.]

**Note: If the permittee builds only portions of the facility, those portions that are completed must apply for an operation permit separately, and the subsequent emissions units will be added to the operation permit as they are completed.*

PERMITTEE:
Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC
Project: Roofing Tile Manufacturing Facility

B. SAND AND SHALE RECEIVING AND HANDLING SYSTEM (E.U.001)

Operations And Emissions Limitations

B1. Permitted Capacity – The total throughput of sand and shale combined shall not exceed the limit listed in the table below:

Description	Maximum Throughput (Tons/Hour)	Maximum Throughput (MMTons/ 12 consecutive month period)
Sand or Shale and Recycle Combined	384*	1.11

* Based on Daily Average throughput
[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

B2. Visible Emissions (VE) – Visible emissions shall not exceed the limits listed in the table below:

Emission Point No.	Brief Description	Opacity Limit
1	Hopper 1, 2, and 3 to BC-1	10 %
2	Hopper 4, 5, and 6 to BC-2	10 %
3	Hopper 7, 8, and 9 to BC-3	10 %
4	Hopper 10, 11, and 12 to BC-4	10 %
5	BC-1 to BC-5 conveyor drop point.	10 %
6	BC-2 to BC-5 conveyor drop point.	10 %
7	BC-3 to BC-5 conveyor drop point.	10 %
8	BC-4 to BC-5 conveyor drop point.	10 %
9	BC-5 to BC-6 conveyor drop point at the transfer tower structure.	10 %
10	BC-6 to BC-7 screen tower structure	10 %
11	BC-7 to 200-ton storage bin.	10 %
12	200 Ton Storage Bin to BC-9	10 %
13	200 Ton Storage Bin to BC-10	10 %
14	BC-28 to BC-5 conveyor drop point	10 %

* See Process Flow Diagram-Figure 3 included in the permit application dated September 15, 2006.
[40 CFR 60.672(a) & (b) and Rule 62-296.320(4)(b), F.A.C.]

PERMITTEE:
Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC
Project: Roofing Tile Manufacturing Facility

Permitting Note: Truck delivery drop points at the 12 receiving hoppers are exempt from the limitations of 40 CFR 60.672 pursuant to 40 CFR 60.672(d). The drop point located at the tower screen structure (BC-6 to BC-7) is a considered a fugitive emission point, however, particulate matter at this drop point may be collected by the dust collection system utilized by the reject tile crusher/screens (Emission Unit 005).

Compliance Testing Requirements

B3. Test Frequency - Each emission point listed in Specific Condition No. B2. shall be visible emissions tested (EPA Method 9) as follows:

- A. **Initial Test.** The initial compliance tests shall be performed within 60 days after achieving the maximum throughput rate of 384 tons/hr. (based on a daily average), but not later than 180 days after initial startup of the facility.
- B. **Subsequent Test(s).** Subsequent tests shall be performed annually between October 1 and September 30 (once per federal fiscal year).
- C. The tests required by item "A." above are considered "Initial NSPS Performance Test(s)" pursuant to Specific Condition A11.A

[40 CFR 60.8(a) and Rule 62-297.310(7)(a), F.A.C.]

B4. VE Test Method – Each emission point listed in Specific Condition No. B2. shall be tested by a certified observer in accordance with EPA Method 9 and the procedures of 40 CFR 60.11, with the following additions:

- A. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
- B. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.
- C. For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.
- D. When determining compliance with the fugitive emissions standard for any affected facility, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply: (1) There are no individual readings greater than 10 percent opacity; and (2) There are no more than 3 readings of 10 percent for the 1-hour period.

[40 CFR 60.675(c)(1), 60.675(c)(3) and 60.11]

PERMITTEE:
Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC
Project: Roofing Tile Manufacturing Facility

B5. Operation Rate During Testing – Visible emissions tests shall be conducted as follows:

- A. Visible emissions tests shall be conducted with the emissions unit operating at 90 to 100 % of the maximum operation rate allowed by the permit (permitted capacity). Since sand typically has higher emissions than shale, test shall be conducted while conveying sand at a throughput rate of 384 tons/hour as specified in Specific Condition No. B1. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the maximum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test rate until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. Additionally, the visible emissions tests for emission point no. 10 (BC-6 to BC-7 screen tower structure) shall be conducted without the influence of the dust collection system in emission unit No. 005.
- B. Each test report shall state the actual sand transfer rate during emissions testing. Failure to submit the actual loading rate for the test period and a copy of the daily log for the test day in the test report may invalidate the test and fail to provide reasonable assurance of compliance.

[Rules 62-4.070(3) and 62-297.310(2), F.A.C. and 40 CFR 60.8(c)]

B6. Transfer Rates During VE Test – To demonstrate compliance with Specific Condition No. B5, the permittee shall maintain the following records for each emission unit during VE Testing:

- A. Facility Name, Emission Unit No. (001), Date;
- B. The start and finish times of VE test;
- C. Material transferred (Sand);
- D. The total quantity of material transferred during VE test (in tons);
- E. Description of how the quantity of materials transferred is determined;
- F. The transfer loading rate in tons/hour.

[Rule 62-4.070(3), F.A.C. and 40 CFR 60.8(c)]

Recordkeeping Requirements

B7. Daily Throughput Records – To demonstrate compliance with the hourly throughput limit of Specific Condition No. B1, the permittee shall maintain the following daily records:

- A. Facility Name, Emission Unit No. (001), Date;
- B. Quantity of sand transferred (in tons);
- C. Quantity of shale transferred (in tons);
- D. Quantity of recycled material transferred (in tons);
- E. Description of how the quantity of materials transferred is determined;

PERMITTEE:

Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC

Project: Roofing Tile Manufacturing Facility

- F. The total quantity of material transferred (in tons);
- G. The total hours of operation;
- H. The “Daily Average” transfer loading rate (in tons/hour).

[Rule 62-4.070(3), F.A.C.]

Permitting Note: “Daily Average” is the total amount of material transferred on any given date, divided by the hours of operation during that date.

B8. Monthly Throughput Records – To demonstrate compliance with the annual throughput limit Specific Condition No. B1, the permittee shall maintain the following records:

- A. Facility Name, Emission Unit No. (001), Month, Year;
- B. Quantity of sand transferred during the month (in tons);
- C. Quantity of shale transferred during the month (in tons);
- D. Quantity of recycled material transferred during the month (in tons);
- E. The total quantity of material transferred during the month (in tons);
- F. The total quantity of material transferred during the last 12 consecutive month period (in tons).

[Rule 62-4.070(3), F.A.C.]

B9. Documentation – Records of all supporting documentation necessary to determine shale and sand transfer quantities shall be maintained for each material transfer into the receiving hoppers (see Specific Condition A16 for record retention requirements).

[Rule 62-4.070(3), F.A.C.]

PERMITTEE:
Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC
Project: Roofing Tile Manufacturing Facility

C. CEMENT STORAGE SILOS (E.U. 002 AND 003)

Operations And Emissions Limitations

C1. Visible Emissions (VE) – Visible emissions shall not exceed the limits listed in the table below:

Description	Opacity Limit
Cement Silo (EU. 002 - West)	5 %
Cement Silo (EU. 003 - East)	5 %

[Rule 62-296.414(1), F.A.C.]

Permitting Note: In the construction permit application dated September 15, 2006, the permittee has specified a silo-loading rate of 22.5 tons/hour.

Compliance Testing Requirements

C2. Test Frequency - Each baghouse exhaust (2 baghouses per silo) shall be visible emissions tested (EPA Method 9) as follows:

- A. Initial Test. -The initial compliance test shall be performed within 60 days after initial startup of the facility.
- B. Subsequent Test(s). Subsequent tests shall be performed annually between October 1 and September 30 (once per federal fiscal year).
- C. The tests required by item “A.” above are considered “Other Initial Tests” pursuant to Specific Condition A11.B

[Rule 62-297.310(7), F.A.C.]

C3. VE Test Method – Each silo baghouse shall be tested by a certified observer in accordance with EPA Method 9 and be a minimum of thirty (30) minutes or, if the operation is normally completed within less than 30 minutes and does not recur within that time, the test shall last for the length of the silo loading operation. The VE test observation period shall include the period which the highest opacity emissions can reasonably be expected to occur.

[Rules 62-296.414(3) and 62-297.310(4)(a)2., F.A.C.]

PERMITTEE:
Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC
Project: Roofing Tile Manufacturing Facility

C4. Operation During Testing – Visible emissions tests of each silo dust collector shall be conducted as follows:

- A. Visible emissions tests of each silo dust collector exhaust points shall be conducted while loading the silo(s) at a rate that is representative of the normal silo loading rate. The minimum loading rate shall be 25 tons per hour unless such rate is unachievable in practice.
- B. Each test report shall state the actual silo loading rate during emissions testing. Failure to submit the actual loading rate for the test period in the test report may invalidate the test and fail to provide reasonable assurance of compliance.

[Rules 62-4.070(3) and 62-296.414(3), F.A.C.]

C5. Silo Loading Rates During VE Test – To demonstrate compliance with Specific Condition No. C4, the permittee shall maintain the following records for each emission unit during VE Testing:

- A. Facility Name, Emission Unit No. (002 or 003), Date;
- B. The start and finish times of each silo loading;
- C. The total quantity of cement loaded (in tons);
- D. Description of how the quantity of cement loaded is determined;
- E. The silo loading rate in tons/hour.

[Rules 62-4.070(3) and 62-296.414(3), F.A.C.]

Recordkeeping Requirements

C6. Monthly Cement Silo Loading Records – The permittee shall maintain the following monthly records:

- A. Facility Name, Emission Unit No. (002 or 003), Month, Year;
- B. The total quantity of cement loaded during the month for each emission unit (in tons);
- C. Description of how the quantity of cement loaded is determined;
- D. The total quantity of cement loaded for the facility during the month (in tons);
- E. The total quantity of cement loaded for the facility during the last 12 consecutive month period (in tons).

[Rule 62-4.070(3), F.A.C.]

C7. Documentation – Records of all supporting documentation necessary to determine cement transfer quantities shall be maintained (see Specific Condition A16 for record retention requirements).

[Rule 62-4.070(3), F.A.C.]

PERMITTEE:
Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC
Project: Roofing Tile Manufacturing Facility

C4. Operation During Testing – Visible emissions tests of each silo dust collector shall be conducted as follows:

- A. Visible emissions tests of each silo dust collector exhaust points shall be conducted while loading the silo(s) at a rate that is representative of the normal silo loading rate. The minimum loading rate shall be 25 tons per hour unless such rate is unachievable in practice.
- B. Each test report shall state the actual silo loading rate during emissions testing. Failure to submit the actual loading rate for the test period in the test report may invalidate the test and fail to provide reasonable assurance of compliance.

[Rules 62-4.070(3) and 62-296.414(3), F.A.C.]

C5. Silo Loading Rates During VE Test – To demonstrate compliance with Specific Condition No. C4, the permittee shall maintain the following records for each emission unit during VE Testing:

- A. Facility Name, Emission Unit No. (002 or 003), Date;
- B. The start and finish times of each silo loading;
- C. The total quantity of cement loaded (in tons);
- D. Description of how the quantity of cement loaded is determined;
- E. The silo loading rate in tons/hour.

[Rules 62-4.070(3) and 62-296.414(3), F.A.C.]

Recordkeeping Requirements

C6. Monthly Cement Silo Loading Records – The permittee shall maintain the following monthly records:

- A. Facility Name, Emission Unit No. (002 or 003), Month, Year;
- B. The total quantity of cement loaded during the month for each emission unit (in tons);
- C. Description of how the quantity of cement loaded is determined;
- D. The total quantity of cement loaded for the facility during the month (in tons);
- E. The total quantity of cement loaded for the facility during the last 12 consecutive month period (in tons).

[Rule 62-4.070(3), F.A.C.]

C7. Documentation – Records of all supporting documentation necessary to determine cement transfer quantities shall be maintained (see Specific Condition A16 for record retention requirements).

[Rule 62-4.070(3), F.A.C.]

PERMITTEE:
Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC
Project: Roofing Tile Manufacturing Facility

D. TILE PRODUCTION BUILDING (E.U.004)

Operations And Emissions Limitations

D1. Emissions Limits – Total emissions of VOCs from this facility shall not exceed the following:

Pollutant	Annual Emissions (Tons per any consecutive 12-month period)
VOC	25.0

[Rule 62-210.200, F.A.C. – Definitions (PTE)]

D2. Visible Emissions (VE) – Visible emissions from the tile production building shall not exceed the limits listed in the table below:

Emission Point No.	Brief Description	Visible Emissions Limit
15	North Side of Building	No visible emissions
16	South Side of Building	No visible emissions
17	East Side of Building	No visible emissions
18	West Side of Building	No visible emissions
19	Roof of Building	No visible emissions

[40 CFR 60.672(e) and 40 CFR 60.675(d)]

Permitting Notes: In the construction permit application dated September 15, 2006, the permittee has specified a maximum design throughput rate of 157.5 tons/hour (135 ton/hr. sand and 22.5 tons/hr. cement).

Compliance Testing Requirements

D3. Test Frequency - Each emission point listed in Specific Condition No. D2. shall be visible emissions tested (EPA Method 22) as follows:

- A. **Initial Test.** The initial compliance test shall be performed within 60 days after achieving the maximum production rate at which the facility will be operated, but not later than 180 days after initial startup of the facility.

PERMITTEE:
Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC
Project: Roofing Tile Manufacturing Facility

- B. Subsequent Test(s). Subsequent tests shall be performed annually between October 1 and September 30 (once per federal fiscal year).

[40 CFR 60.8(a) and Rule 62-297.310(7)(a), F.A.C.]

D4. VE Test Method - In determining compliance with Specific Condition No. D2, 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. The performance test for the building shall be at least 75 minutes in duration, with each side of the building and the roof being observed for at least 15 minutes.
[40 CFR 60.675(d)]

D5. Operation Rate During VE Testing – Visible emissions tests of each emission point shall be conducted as follows:

- A. Visible emissions tests for the building shall be conducted while transferring materials at a rate that is representative of the normal transfer rate. The minimum transfer rate during testing shall be at least 90% of the maximum design throughput rate (minimum transfer rate =141.7 tons/hours) of sand and cement combined. Additionally, the maximum number of tile lines (4 lines) shall simultaneously process cement and sand during the test. Since sand typically has higher emissions than shale, testing shall be conducted while conveying sand.
- B. Each test report shall state the actual combined sand and cement transfer rate during emissions testing. Failure to submit the actual transfer rate for the test period in the test report may invalidate the test and fail to provide reasonable assurance of compliance.

[Rule 62-4.070(3), F.A.C. and 40 CFR 60.8(c)]

D6. Production Rate During VE Test – To demonstrate compliance with Specific Condition No. D5, the permittee shall maintain the following records for each emission unit during VE Testing:

- A. Facility Name, Emission Unit No. (004), Date;
- B. The production lines in operation during VE test;
- C. The start and finish time of the VE test;
- D. Total quantity of sand transferred during test (in tons);
- E. Total quantity of cement transferred during test (in tons);
- F. Actual combined transfer rate during test (in tons/hour).

[Rule 62-4.070(3), F.A.C.]

PERMITTEE:
Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC
Project: Roofing Tile Manufacturing Facility

Recordkeeping Requirements

D7. VOC Recordkeeping

Monthly Records - The permittee shall maintain monthly records to document compliance with Specific Condition No. D1. The records shall include, but are not limited to, the following:

- A. Facility Name, Emission Unit No. (004), Month and Year.
- B. List, by name or identification number, each release agent, oil, sealer, coating, equipment solvent wash, or other VOC containing material used in association with the tile manufacturing process during the month and the amount of each used, in gallons.
- C. List the VOC content (in lbs/gal) for each material listed in item B from the MSDS of the material, or other acceptable documentation of the material.
- D. Calculate the VOC emissions for each material, using the following general equation:

$\text{VOC Emissions} = \text{Usage (gal)} \times \text{VOC Content (lbs/gal)} \times \text{Emission Factor}^*$

*Until the applicant applies for and receives a different emission factor determination from the Department, emissions for all VOC containing material shall be calculated using an emission factor of 1.0.

- E. Calculate the total VOC emissions for the most recent month.
- F. Calculate the total VOC emissions for the most recent consecutive 12-month period.

[Rule 62-4.070(3), F.A.C.]

D8. Documentation - Records of all calculations and supporting documentation ("As Supplied", "As Applied" records, MSDS Sheets, EPA data sheets, etc.) shall be kept for each release agent, oil, sealer, coating, equipment solvent wash, or other VOC containing material used in association with the tile manufacturing process which includes sufficient information to determine VOC emissions. At the permittee's option, "purchases" may be used where "usage" is specified provided no materials are used that are not purchased (see Specific Condition A16 for record retention requirements).

[Rule 62-4.070(3), F.A.C.]

PERMITTEE:
Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC
Project: Roofing Tile Manufacturing Facility

E. REJECT TILE RECYCLING CRUSHER SYSTEM (E.U. 005) AND 100 TON BULK CRUSHED TILE STORAGE BIN (E.U. 006)

Operations And Emissions Limitations

E1. Permitted Capacity – The VSI Crusher throughput rate is limited as follows:

Description	Maximum Throughput (Tons/Hour)
VSI Crusher	30*

** Permitting Note: Hourly rate is for emissions testing only - permittee is not required to show compliance rate during normal operation.*

[Rule 62-4.070(3), F.A.C.]

E2. Particulate Matter Emissions (PM) – Particulate Matter (PM) emissions shall not exceed the limits listed in the table below:

Description	Limits
Dust Collector System Baghouse	0.05 g/dscm (0.022 grains/dscf)
Bulk Crushed Tile Storage Bin/Hopper Baghouse	0.05 g/dscm (0.022 grains/dscf)

[40 CFR 60.672(a)]

E3. Visible Emissions (VE) – Visible emissions shall not exceed the limits listed in the tables below:

Description	Opacity Limit
Reject Tile Dust Collector System Baghouse	5 %*
Bulk Crushed Tile Storage Bin/Hopper Baghouse	5 %*

** This emission limitation is stricter than the limitation of 40 CFR 60.672(a)(2)*

[Rule 62-296.414(1), F.A.C.]

PERMITTEE:
Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC
Project: Roofing Tile Manufacturing Facility

Compliance Testing Frequency

E4. Test Frequency - Each baghouse shall be tested as follows:

- A. Initial Test - The initial compliance test shall be performed within 60 days after achieving the maximum throughput rate of the VSI Crusher, but not later than 180 days after initial startup of the facility. Each baghouse exhaust shall be visible emissions tested. For the initial test only, the visible emission test of the baghouses exhaust shall be conducted concurrently with the particulate matter emission testing.
- B. Subsequent Visual Emissions Test(s) - Subsequent VE tests shall be performed annually between October 1 and September 30 (once per federal fiscal year).
- C. Subsequent Particulate Matter Test(s) - Subsequent particulate matter (PM) test shall be performed during the year prior to the five-year anniversary of the initial particulate matter compliance test.
- D. The tests required by item "A." above are considered "Initial NSPS Performance Test(s)" pursuant to Specific Condition A11.A.

[40 CFR 60.8(a) and 60.11; Rules 62-4.070(3) and 62-297.310(7)(a), F.A.C.]

Compliance Testing Method

E5. Particulate Matter (PM) Test Method - The Reject Tile Dust Collector System Baghouse and the Bulk Crushed Tile Storage Bin/Hopper baghouse shall each be tested in accordance with EPA Method 5 or Method 17 to determine the particulate matter concentration. The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5, if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121 °C (250 °F), to prevent water condensation on the filter.

[40 CFR 60.675(b)]

E6. VE Test Method (Stack Emissions) - The permittee shall comply with the following test methods to demonstrate compliance with Specific Condition E3.:

- A. Each baghouse shall be tested by a certified observer in accordance with EPA Method 9. The VE test observation period shall include the period in which the highest opacity emissions can reasonably be expected to occur.
- B. For only the initial test, the visible emission test shall be conducted concurrently with the particulate matter emission testing and be a minimum of at least 3 hours in duration.

[40 CFR 60.11 and Rules 62-296.414(3), and 62-297.310(4)(a)2, F.A.C.]

PERMITTEE:
Eagle Roofing Products Florida LLC

Draft Permit No.: 1190045-001-AC
Project: Roofing Tile Manufacturing Facility

E7. Operation During Testing – Visible emissions and particulate matter testing of the Reject Tile Dust Collector System and the Bulk Crushed Tile Storage Bin/Hopper Baghouse shall be conducted as follows:

- A. Emissions testing shall be conducted with emission unit 001 operating at a rate that is representative of the normal operation rate and the VSI Crusher operating at 90 to 100 % of the maximum operation rate allowed by the permit (permitted capacity). If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the maximum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test rate until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.
- B. Each test report shall state the actual VSI crusher throughput rate during emissions testing. Failure to submit the actual throughput rate for the test period may invalidate the test and fail to provide reasonable assurance of compliance.

[Rules 62-4.070(3) and 62-297.320(2), F.A.C.]

E8. VSI Crusher Throughput Rate during VE Test – To demonstrate compliance with Specific Condition No. E7., the permittee shall maintain the following records for each emission unit during VE Testing:

- A. Facility Name, Emission Unit No. (005), Date;
- B. The start and finish times of VSI Crusher;
- C. The total amount of throughput (in tons);
- D. Description of how the throughput in tons is determined;
- E. The VSI throughput rate in tons/hour.

[Rules 62-4.070(3) and 62-297.320(2), F.A.C.]

E9. Monthly Crusher Throughput Records – The permittee shall maintain the following monthly records:

- A. Facility Name, Emission Unit No. (005), Month, Year;
- B. The total throughput of feed material (reject tiles) during the month (in tons);
- C. The total throughput of feed material (from fines material loading hopper) during the month (in tons);
- D. The total throughput of feed material (reject tiles) during the last 12 consecutive month period (in tons);
- E. Description of how the throughput of feed material is determined;
- F. The total throughput of feed material (from fines material loading hopper) during the last 12 consecutive month period (in tons).

[Rule 62-4.070(3), F.A.C.]

ATTACHMENT - GENERAL CONDITIONS

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, Florida Statutes (F.S.). The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. Not applicable to Air Permits.
5. 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 source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
 - a. Have access to and copy any records that must be kept under conditions of the permit;
 - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sample or monitor any substances or parameters at any location reasonable necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - a. A description of and cause of noncompliance; and
 - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

ATTACHMENT - GENERAL CONDITIONS

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Section 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-730.300 F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- Determination of Best Available Control Technology (BACT)
- Determination of Prevention of Significant Deterioration (PSD)
- Compliance with New Source Performance Standards (NSPS)

14. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
 - 1. the date, exact place, and time of sampling or measurements;
 - 2. the person responsible for performing the sampling or measurements;
 - 3. the dates analyses were performed;
 - 4. the person responsible for performing the analyses;
 - 5. the analytical techniques or methods used;
 - 6. the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

16. Not applicable to Air Permits.

17. Not applicable to Air Permits.

GENERAL PROVISIONS
Title 40 Code of Federal Regulations, Subpart A

Updated 7-9-02

[Source: Federal Register dated 7/1/98, Federal Register 5/8/98, 2/12/99, 10/17/00, 6/28/02]

Subpart A-General Provisions for 40 CFR 60

40 CFR 60.1 Applicability.

(a) Except as provided in 40 CFR 60 subparts B and C, the provisions of this part apply to the owner or operator of any stationary source which contains an affected facility, the construction or modification of which is commenced after the date of publication in this part of any standard (or, if earlier, the date of publication of any proposed standard) applicable to that facility.

(b) Any new or revised standard of performance promulgated pursuant to section 111(b) of the Act shall apply to the owner or operator of any stationary source which contains an affected facility, the construction or modification of which is commenced after the date of publication in this part of such new or revised standard (or, if earlier, the date of publication of any proposed standard) applicable to that facility.

(c) In addition to complying with the provisions of this part, the owner or operator of an affected facility may be required to obtain an operating permit issued to stationary sources by an authorized State air pollution controlagency or by the Administrator of the U.S. Environmental Protection Agency (EPA) pursuant to Title V of the Clean Air Act (CAA) as amended November 15, 1990 (42 U.S.C. 7661).

[40 CFR 60.1(a), (b) and (c)]

40 CFR 60.5 Determination of construction or modification.

(a) When requested to do so by an owner or operator, the Administrator will make a determination of whether action taken or intended to be taken by such owner or operator constitutes construction (including reconstruction) or modification or the commencement thereof within the meaning of this part.

(b) The Administrator will respond to any request for a determination under paragraph (a) of this section within 30 days of receipt of such request.

§ 60.6 Review of plans.

(a) When requested to do so by an owner or operator, the Administrator will review plans for construction or modification for the purpose of providing technical advice to the owner or operator.

(b)(1) A separate request shall be submitted for each construction or modification project.

(2) Each request shall identify the location of such project, and be accompanied by technical information describing the proposed nature, size, design, and method of operation of each affected facility involved in such project, including information on any equipment to be used for measurement or control of emissions.

(c) Neither a request for plans review nor advice furnished by the Administrator in response to such request shall (1) relieve an owner or operator of legal responsibility for compliance with any provision of this part or

of any applicable State or local requirement, or (2) prevent the Administrator from implementing or enforcing any provision of this part or taking any other action authorized by the Act.

40 CFR 60.7 Notification and record keeping.

(a) Any owner or operator subject to the provisions of this part shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, as follows:

1. A notification of the date construction (or reconstruction as defined under § 60.15) of an affected facility is commenced postmarked no later than 30 days after such date. This requirement shall not apply in the case of mass-produced facilities which are purchased in completed form.

2. Reserved.

3. A notification of the actual date of initial startup of an affected facility postmarked within 15 days after such date.

4. A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in § 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice.

5. A notification of the date upon which demonstration of the continuous monitoring system performance commences in accordance with 40 CFR 60.13(c). Notification shall be postmarked not less than 30 days prior to such date.

6. A notification of the anticipated date for conducting the opacity observations required by 40 CFR 60.11(e)(1) of this part. The notification shall also include, if appropriate, a request for the Administrator to provide a visible emissions reader during a performance test. The notification shall be postmarked not less than 30 days prior to such date.

7. A notification that continuous opacity monitoring system data results will be used to determine compliance with the applicable opacity standard during a performance test required by 40 CFR 60.8 in lieu of Method 9 observation data as allowed by 40 CFR 60.11(e)(5) of 40 CFR 60. This notification shall be postmarked not less than 30 days prior to the date of the performance test.

(b) Any owner or operator subject to the provisions of this part shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

(c) Each owner or operator required to install a continuous monitoring system (CMS) or monitoring device shall submit an excess emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form (see paragraph (d) of this section) to the Administrator semiannually, except when: more frequent reporting is specifically required by an applicable subpart; or the Administrator, on a case-by-case basis, determines that more frequent reporting is necessary to accurately assess the compliance status of the source. All reports shall be postmarked by the 30th day following the end of each six-month period. Written reports of excess emissions shall include the following information:

(1) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions. The process operating time during the reporting period.

(2) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted.

(3) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments.

(4) When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report.

(d) The summary report form shall contain the information and be in the format shown in Figure 1 unless otherwise specified by the Administrator. One summary report form shall be submitted for each pollutant monitored at each affected facility.

(1) If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and CMS downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in 40 CFR 60.7(c) need not be submitted unless requested by the Administrator.

(2) If the total duration of excess emissions for the reporting period is 1 percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the summary report form and the excess emission report described in 40 CFR 60.7(c) shall both be submitted.

[See Attached Figure 1-Summary Report-Gaseous and Opacity Excess Emission and Monitoring System Performance]

(e) (1) Notwithstanding the frequency of reporting requirements specified in paragraph (c) of this section, an owner or operator who is required by an applicable subpart to submit excess emissions and monitoring systems performance reports (and summary reports) on a quarterly (or more frequent) basis may reduce the frequency of reporting for that standard to semiannual if the following conditions are met:

(i) For 1 full year (e.g., 4 quarterly or 12 monthly reporting periods) the affected facility's excess emissions and monitoring systems reports submitted to comply with a standard under this part continually demonstrate that the facility is in compliance with the applicable standard;

(ii) The owner or operator continues to comply with all recordkeeping and monitoring requirements specified in this subpart and the applicable standard; and

(iii) The Administrator does not object to a reduced frequency of reporting for the affected facility, as provided in paragraph (e)(2) of this section.

(2) The frequency of reporting of excess emissions and monitoring systems performance (and summary) reports may be reduced only after the owner or operator notifies the Administrator in writing of his or her intention to make such a change and the Administrator does not object to the intended change. In deciding whether to approve a reduced frequency of reporting, the Administrator may review information concerning the source's entire previous performance history during the required recordkeeping period prior to the intended change, including performance test results, monitoring data, and evaluations of an owner or operator's conformance with operation and maintenance requirements. Such information may be used by the Administrator to make a judgment about the source's potential for noncompliance in the future. If the Administrator disapproves the owner or operator's request to reduce the frequency of reporting, the Administrator will notify the owner or operator in writing within 45 days after receiving notice of the owner or operator's intention. The notification from the Administrator to the owner or operator will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.

(3) As soon as monitoring data indicate that the affected facility is not in compliance with any emission limitation or operating parameter specified in the applicable standard, the frequency of reporting shall revert to the frequency specified in the applicable standard, and the owner or operator shall submit an excess emissions and monitoring systems performance re-port (and summary report, if required) at the next appropriate reporting period following the noncomplying event. After demonstrating compliance with the applicable standard for another full year, the owner or operator may again request approval from the Administrator to reduce the frequency of reporting for that standard as provided for in paragraphs (e)(1) and (e)(2) of this section.

(f) Any owner or operator subject to the provisions of this part shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records, except as follows:

(1) This paragraph applies to owners or operators required to install a continuous emissions monitoring system (CEMS) where the CEMS installed is automated, and where the calculated data averages do not exclude periods of CEMS breakdown or malfunction. An automated CEMS records and reduces the measured data to the form of the pollutant emission standard through the use of a computerized data acquisition system. In lieu of maintaining a file of all CEMS subhourly measurements as required under paragraph (f) of this section, the owner or operator shall retain the most recent consecutive three averaging periods of subhourly measurements and a file that contains a hard copy of the data acquisition system algorithm used to reduce the measured data into the reportable form of the standard.

(2) This paragraph applies to owners or operators required to install a CEMS where the measured data is manually reduced to obtain the reportable form of the standard, and where the calculated data averages do not exclude periods of CEMS breakdown or malfunction. In lieu of maintaining a file of all CEMS subhourly measurements as required under paragraph (f) of this section, the owner or operator shall retain all subhourly measurements for the most recent reporting period. The subhourly measurements shall be retained for 120 days from the date of the most recent summary or excess emission report submitted to the Administrator.

(3) The Administrator or delegated authority, upon notification to the source, may require the owner or operator to maintain all measurements as required by paragraph (f) of this section, if the Administrator or the delegated authority determines these records are required to more accurately assess the compliance status of the affected source.

(g) If notification substantially similar to that in 40 CFR 60.7(a) is required by any other State or local agency, sending the Administrator a copy of that notification will satisfy the requirements of 40 CFR 60.7(a).

(h) Individual subparts of this part may include specific provisions which clarify or make inapplicable the provisions set forth in this section.

[40 CFR 60.7(a), (b), (c), (d), (e), (f), (g), (h)]

40 CFR 60.8 Performance tests.

(a) Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility and at such other times as may be required by the Administrator under section 114 of the Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s).

[40 CFR 60.8(a)]

(b) Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors. Nothing in 40 CFR 60.8 shall be construed to abrogate the Administrator's authority to require testing under section 114 of the Act.

[40 CFR 60.8(b)(1), (2), (3), (4) & (5)]

(c) Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.

[40 CFR 60.8(c)].

(d) The owner or operator of an affected facility shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the administrator (or delegated State or local agency) as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator (or delegated State or local agency) by mutual agreement.

(e) The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows:

(1) Sampling ports adequate for test methods applicable to such facility. This includes

(i) constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and

(ii) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.

(2) Safe sampling platform(s).

(3) Safe access to sampling platform(s).

(4) Utilities for sampling and testing equipment.

[40 CFR 60.8(e)].

(f) Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other

circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs.
[40 CFR 60.8(f)].

§ 60.9 Availability of information.

The availability to the public of information provided to, or otherwise obtained by, the Administrator under this part shall be governed by part 2 of this chapter. (Information submitted voluntarily to the Administrator for the purposes of §§ 60.5 and 60.6 is governed by §§ 2.201 through 2.213 of this chapter and not by § 2.301 of this chapter.)

40 CFR 60.10 State authority.

The provisions of 40 CFR 60 shall not be construed in any manner to preclude any State or political subdivision thereof from:

(a) Adopting and enforcing any emission standard or limitation applicable to an affected facility, provided that such emission standard or limitation is not less stringent than the standard applicable to such facility.

(b) Requiring the owner or operator of an affected facility to obtain permits, licenses, or approvals prior to initiating construction, modification, or operation of such facility.

[40 CFR 60.10(a) and (b)].

40 CFR 60.11 Compliance with standards and maintenance requirements.

(a) Compliance with standards in this part, other than opacity standards, shall be determined only by performance tests established by 40 CFR 60.8, unless otherwise specified in the applicable standard.

(b) Compliance with opacity standards in this part shall be determined by conducting observations in accordance with Method 9 in appendix A of this part, any alternative method that is approved by the Administrator, or as provided in 40 CFR 60.11(e)(5). For purposes of determining initial compliance, the minimum total time of observations shall be 3 hours (30 6-minute averages) for the performance test or other set of observations (meaning those fugitive-type emission sources subject only to an opacity standard).

(c) The opacity standards set forth in this part shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard.

(d) At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(e) (1) For the purpose of demonstrating initial compliance, opacity observations shall be conducted concurrently with the initial performance test required in 40 CFR 60.8 unless one of the following conditions apply. If no performance test under 40 CFR 60.8 is required, then opacity observations shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated but no later than 180 days after initial startup of the facility. If visibility or other conditions prevent the opacity observations from being conducted concurrently with the initial performance test required under 40 CFR 60.8, the source owner or operator shall reschedule the opacity observations as soon after the initial

performance test as possible, but not later than 30 days thereafter, and shall advise the Administrator of the rescheduled date. In these cases, the 30-day prior notification to the Administrator required in 40 CFR 60.7(a)(6) shall be waived. The rescheduled opacity observations shall be conducted (to the extent possible) under the same operating conditions that existed during the initial performance test conducted under 40 CFR 60.8. The visible emissions observer shall determine whether visibility or other conditions prevent the opacity observations from being made concurrently with the initial performance test in accordance with procedures contained in Method 9 of appendix B of this part. Opacity readings of portions of plumes which contain condensed, uncombined water vapor shall not be used for purposes of determining compliance with opacity standards. The owner or operator of an affected facility shall make available, upon request by the Administrator, such records as may be necessary to determine the conditions under which the visual observations were made and shall provide evidence indicating proof of current visible observer emission certification. Except as provided in 40 CFR 60.11(e)(5), the results of continuous monitoring by transmissometer which indicate that the opacity at the time visual observations were made was not in excess of the standard are probative but not conclusive evidence of the actual opacity of an emission, provided that the source shall meet the burden of proving that the instrument used meets (at the time of the alleged violation) Performance Specification 1 in appendix B of 40 CFR 60, has been properly maintained and (at the time of the alleged violation) that the resulting data have not been altered in any way.

(2) Except as provided in 40 CFR 60.11(e)(3), the owner or operator of an affected facility to which an opacity standard in this part applies shall conduct opacity observations in accordance with 40 CFR 60.11(b), shall record the opacity of emissions, and shall report to the Administrator the opacity results along with the results of the initial performance test required under 40 CFR 60.8. The inability of an owner or operator to secure a visible emissions observer shall not be considered a reason for not conducting the opacity observations concurrent with the initial performance test.

(3) The owner or operator of an affected facility to which an opacity standard in this part applies may request the Administrator to determine and to record the opacity of emissions from the affected facility during the initial performance test and at such times as may be required. The owner or operator of the affected facility shall report the opacity results. Any request to the Administrator to determine and to record the opacity of emissions from an affected facility shall be included in the notification required in 40 CFR 60.7(a)(6). If, for some reason, the Administrator cannot determine and record the opacity of emissions from the affected facility during the performance test, then the provisions of 40 CFR 60.7(e)(1) shall apply.

(4) The owner or operator of an affected facility using a continuous opacity monitor (transmissometer) shall record the monitoring data produced during the initial performance test required by 40 CFR 60.8 and shall furnish the Administrator a written report of the monitoring results along with Method 9 and 40 CFR 60.8 performance test results.

(5) The owner or operator of an affected facility subject to an opacity standard may submit, for compliance purposes, continuous opacity monitoring system (COMS) data results produced during any performance test required under 40 CFR 60.8 in lieu of Method 9 observation data. If an owner or operator elects to submit COMS data for compliance with the opacity standard, he shall notify the Administrator of that decision, in writing, at least 30 days before any performance test required under 40 CFR 60.8 is conducted. Once the owner or operator of an affected facility has notified the Administrator to that effect, the COMS data results will be used to determine opacity compliance during subsequent tests required under 40 CFR 60.8 until the owner or operator notifies the Administrator, in writing, to the contrary. For the purpose of determining compliance with the opacity standard during a performance test required under 40 CFR 60.8 using COMS data, the minimum total time of COMS data collection shall be averages of all 6-minute continuous periods within the duration of the mass emission performance test. Results of the COMS opacity determinations shall be submitted along with the results of the performance test required under 60.8. The owner or operator of an affected facility using a COMS for compliance purposes is responsible for demonstrating that the COMS meets the requirements specified in 40 CFR 60.13(c), that the COMS has been properly maintained and operated, and that the resulting data have not been altered in any way. If COMS data results are submitted for compliance with the opacity standard for a period of time during which Method

9 data indicates noncompliance, the Method 9 data will be used to determine compliance with the opacity standard.

(6) Upon receipt from an owner or operator of the written reports of the results of the performance tests required by 40 CFR 60.8, the opacity observation results and observer certification required by 40 CFR 60.11(e)(1), and the COMS results, if applicable, the Administrator will make a finding concerning compliance with opacity and other applicable standards. If COMS data results are used to comply with an opacity standard, only those results are required to be submitted along with the performance test results required by 40 CFR 60.8. If the Administrator finds that an affected facility is in compliance with all applicable standards for which performance tests are conducted in accordance with 40 CFR 60.8 of this part but during the time such performance tests are being conducted fails to meet any applicable opacity standard, the shall notify the owner or operator and advise him that he may petition the Administrator within 10 days of receipt of notification to make appropriate adjustment to the opacity standard for the affected facility.

(7) The Administrator will grant such a petition upon a demonstration by the owner or operator that the affected facility and associated air pollution control equipment was operated and maintained in a manner to minimize the opacity of emissions during the performance tests; that the performance tests were performed under the conditions established by the Administrator; and that the affected facility and associated air pollution control equipment were incapable of being adjusted or operated to meet the applicable opacity standard.

(8) The Administrator will establish an opacity standard for the affected facility meeting the above requirements at a level at which the source will be able, as indicated by the performance and opacity tests, to meet the opacity standard at all times during which the source is meeting the mass or concentration emission standard. The Administrator will promulgate the new opacity standard in the Federal Register.

(f) Special provisions set forth under an applicable subpart of 40 CFR 60 shall supersede any conflicting provisions of 40 CFR 60.11.

[40 CFR 60.11(a), (b), (c), (d), (e) and (f)]

40 CFR 60.12 Circumvention.

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

[40 CFR 60.12]

40 CFR 60.13 Monitoring requirements.

(a) For the purposes of this section, all continuous monitoring systems required under applicable subparts shall be subject to the provisions of this section upon promulgation of performance specifications for continuous monitoring systems under appendix B of 40 CFR 60 and, if the continuous monitoring system is used to demonstrate compliance with emission limits on a continuous basis, appendix F to 40 CFR 60, unless otherwise specified in an applicable subpart or by the Administrator. Appendix F is applicable December 4, 1987.

(b) All continuous monitoring systems and monitoring devices shall be installed and operational prior to conducting performance tests under 40 CFR 60.8. Verification of operational status shall, as a minimum, include completion of the manufacturer's written requirements or recommendations for installation, operation, and calibration of the device.

(c) If the owner or operator of an affected facility elects to submit continuous opacity monitoring system (COMS) data for compliance with the opacity standard as provided under 40 CFR 60.11(e)(5), he/she shall conduct a performance evaluation of the COMS as specified in Performance Specification 1, appendix B, of 40 CFR 60 before the performance test required under 40 CFR 60.8 is conducted. Otherwise, the owner or operator of an affected facility shall conduct a performance evaluation of the COMS or continuous emission monitoring system (CEMS) during any performance test required under 40 CFR 60.8 or within 30 days thereafter in accordance with the applicable performance specification in appendix B of 40 CFR 60. The owner or operator of an affected facility shall conduct COMS or CEMS performance evaluations at such other times as may be required by the Administrator under section 114 of the Act.

(1) The owner or operator of an affected facility using a COMS to determine opacity compliance during any performance test required under 40 CFR 60.8 and as described in 40 CFR 60.11(e)(5), shall furnish the Administrator two or, upon request, more copies of a written report of the results of the COMS performance evaluation described in 40 CFR 60.13(c) at least 10 days before the performance test required under 40 CFR 60.8 is conducted.

(2) Except as provided in 40 CFR 60.13(c)(1), the owner or operator of an affected facility shall furnish the Administrator within 60 days of completion two or, upon request, more copies of a written report of the results of the performance evaluation.

(d) (1) Owners and operators of all continuous emission monitoring systems installed in accordance with the provisions of this part shall check the zero (or low-level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) calibration drifts at least once daily in accordance with a written procedure. The zero and span shall, as a minimum, be adjusted whenever the 24-hour zero drift or 24-hour span drift exceeds two times the limits of the applicable performance specifications in appendix B. The system must allow the amount of excess zero and span drift measured at the 24-hour interval checks to be recorded and quantified, whenever specified. For a COMS, the optical surfaces, exposed to the effluent gases, must be cleaned before performing the zero and upscale drift adjustments, except for systems using automatic zero adjustments. The optical surfaces must be cleaned when the cumulative automatic zero compensation exceeds 4 percent opacity.

(2) Unless otherwise approved by the Administrator, the following procedures shall be followed for continuous monitoring systems measuring opacity of emissions. Minimum procedures shall include a method for producing a simulated zero opacity condition and an upscale (span) opacity condition using a certified neutral density filter or other related technique to produce a known obscuration of the light beam. Such procedures shall provide a system check of the analyzer internal optical surfaces and all electronic circuitry including the lamp and photo detector assembly.

(e) Except for system breakdowns, repairs, calibration checks, and zero and span adjustments required under 40 CFR 60.13(d), all continuous monitoring systems shall be in continuous operation and shall meet minimum frequency of operation requirements as follows:

(1) All continuous monitoring systems referenced by 40 CFR 60.13(c) for measuring opacity of emissions shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period.

(2) All continuous monitoring systems referenced by 40 CFR 60.13(c) for measuring emissions, except opacity, shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.

(f) All continuous monitoring systems or monitoring devices shall be installed such that representative measurements of emissions or process parameters from the affected facility are obtained. Additional procedures for location of continuous monitoring systems contained in the applicable Performance Specifications of appendix B of 40 CFR 60 shall be used.

- (g) (1) When more than one continuous monitoring system is used to measure the emissions from only one affected facility (e.g. multiple breechings, multiple outlets), the owner or operator shall report the results as required from each continuous monitoring system. When the effluent from one affected facility is released to the atmosphere through more than one point, the owner or operator shall install an applicable continuous monitoring system on each separate effluent unless installation of fewer systems is approved by the Administrator.
- (2) When the effluents from two or more affected facilities subject to the same opacity standard are combined before being released to the atmosphere, the owner or operator may either install a continuous opacity monitoring system at a location monitoring the combined effluent or install an opacity combiner system comprised of opacity and flow monitoring systems on each stream, and shall report as per Sec. 60.7(c) on the combined effluent. When the affected facilities are not subject to the same opacity standard applicable, except for documented periods of shutdown of the affected facility, subject to the most stringent opacity standard shall apply
- (3) When the effluents from two or more affected facilities subject to the same emissions standard, other than opacity, are combined before released to the atmosphere, the owner or operator may install applicable continuous monitoring systems on each effluent or on the combined effluent. When the affected facilities are not subject to the continuous monitoring standard, separate continuous monitoring systems shall be installed on each effluent and the owner or operator shall report as required for each affected facility.

(h) Owners or operators of all continuous monitoring systems for measurement of opacity shall reduce all data to 6-minute averages and for continuous monitoring systems other than opacity to 1-hour averages for time periods as defined in 40 CFR 60.2. Six-minute opacity averages shall be calculated from 36 or more data points equally spaced over each 6-minute period. For continuous monitoring systems other than opacity, 1-hour averages shall be computed from four or more data points equally spaced over each 1-hour period. Data recorded during periods of continuous system breakdowns, repairs, calibration checks, and zero and span adjustments shall not be included in the data averages computed under this paragraph. For owners or operators complying with the requirements in Sec. 60.7(f)(1) or (2), data averages must include any data recorded during periods of monitor breakdown or malfunction. An arithmetic or integrated average of all data may be used. The data may be recorded in reduced or non reduced form (e.g., ppm pollutant and percent O₂ or ng or pollutant per J of heat input). All excess emissions shall be converted into units of the standard using the applicable conversion procedures specified in subparts. After conversion into units of the standard, the data may be rounded to the same number of significant digits as used in the applicable subparts to specify the emission limit (e.g., rounded to the nearest 1 percent opacity).
[Rule 62-296.800, F.A.C.; 40 CFR 60.13(h)].

(i) After receipt and consideration of written application, the Administrator may approve alternatives to any monitoring procedures or requirements of this part including, but not limited to the following:

- (1) Alternative monitoring requirements when installation of a continuous monitoring system or monitoring device specified by this part would not provide accurate measurements due to liquid water or other interferences caused by substances in the effluent gases.
- (2) Alternative monitoring requirements when the affected facility is infrequently operated.
- (3) Alternative monitoring requirements to accommodate continuous monitoring systems that require additional measurements to correct for stack moisture conditions.
- (4) Alternative locations for installing continuous monitoring systems or monitoring devices when the owner or operator can demonstrate that installation at alternate locations will enable accurate and representative measurements.
- (5) Alternative methods of converting pollutant concentration measurements to units of the standards.

(6) Alternative procedures for performing daily checks of zero and span drift that do not involve use of span gases or test cells.

(7) Alternatives to the A.S.T.M. test methods or sampling procedures specified by any subpart.

(8) Alternative continuous monitoring systems that do not meet the design or performance requirements in Performance Specification 1, appendix B, but adequately demonstrate a definite and consistent relationship between its measurements and the measurements of opacity by a system complying with the requirements in Performance Specification 1. The Administrator may require that such demonstration be performed for each affected facility.

(9) Alternative monitoring requirements when the effluent from a single affected facility or the combined effluent from two or more affected facilities is released to the atmosphere through more than one point.

[Rule 62-296.800, F.A.C.; 40 CFR 60.13(i)].

(j) An alternative to the relative accuracy (RA) test specified in Performance Specification 2 of appendix B may be requested as follows:

(1) An alternative to the reference method tests for determining RA is available for sources with emission rates demonstrated to be less than 50 percent of the applicable standard. A source owner or operator may petition the Administrator to waive the RA test in section 8.4 of Performance Specification 2 and substitute the procedures in section 16.0 if the results of a performance test conducted according to the requirements in 40 CFR 60.8 of this subpart or other tests performed following the criteria in 40 CFR 60.8 demonstrate that the emission rate of the pollutant of interest in the units of the applicable standard is less than 50 percent of the applicable standard. For sources subject to standards expressed as control efficiency levels, a source owner or operator may petition the Administrator to waive the RA test and substitute the procedures in section 16.0 of Performance Specification 2 if the control device exhaust emission rate is less than 50 percent of the level needed to meet the control efficiency requirement. The alternative procedures do not apply if the continuous emission monitoring system is used to determine compliance continuously with the applicable standard. The petition to waive the RA test shall include a detailed description of the procedures to be applied. Included shall be location and procedure for conducting the alternative, the concentration or response levels of the alternative RA materials, and the other equipment checks included in the alternative procedure. The Administrator will review the petition for completeness and applicability. The determination to grant a waiver will depend on the intended use of the CEMS data (e.g., data collection purposes other than NSPS) and may require specifications more stringent than in Performance Specification 2 (e.g., the applicable emission limit is more stringent than NSPS).

(2) The waiver of a CEMS RA test will be reviewed and may be rescinded at such time, following successful completion of the alternative RA procedure that the CEMS data indicate the source emissions approaching the level. The criterion for reviewing the waiver is the collection of CEMS data showing that emissions have exceeded 70 percent of the applicable standard for seven, consecutive, averaging periods as specified by the applicable regulation(s). For sources subject to standards expressed as control efficiency levels, the criterion for reviewing the waiver is the collection of CEMS data showing that exhaust emissions have exceeded 70 percent of the level needed to meet the control efficiency requirement for seven, consecutive, averaging periods as specified by the applicable regulation(s) [e.g., 40 CFR 60.45(g)(2) and 40 CFR 60.45(g)(3), 40 CFR 60.73(e), and 40 CFR 60.84(e)]. It is the responsibility of the source operator to maintain records and determine the level of emissions relative to the criterion on the waiver of RA testing. If this criterion is exceeded, the owner or operator must notify the Administrator within 10 days of such occurrence and include a description of the nature and cause of the increasing emissions. The Administrator will review the notification and may rescind the waiver and require the owner or operator to conduct a RA test of the CEMS as specified in section 8.4 of Performance Specification 2.

[Rule 62-296.800, F.A.C.; 40 CFR 60.13(j)].

40 CFR 60.14 Modification.

(a) Except as provided under 40 CFR 60.14(e) and 40 CFR 60.14(f), any physical or operational change to an existing facility which results in an increase in the emission rate to the atmosphere of any pollutant to which a standard applies shall be considered a modification within the meaning of section 111 of the Act. Upon modification, an existing facility shall become an affected facility for each pollutant to which a standard applies and for which there is an increase in the emission rate to the atmosphere.
[Rule 62-296.800, F.A.C.; 40 CFR 60.14(a)].

(b) Emission rate shall be expressed as kg/hr (lbs./hour) of any pollutant discharged into the atmosphere for which a standard is applicable. The Administrator shall use the following to determine emission rate:

(1) Emission factors as specified in the latest issue of "Compilation of Air Pollutant Emission Factors", EPA Publication No. AP-42, or other emission factors determined by the Administrator to be superior to AP-42 emission factors, in cases where utilization of emission factors demonstrates that the emission level resulting from the physical or operational change will either clearly increase or clearly not increase.

(2) Material balances, continuous monitor data, or manual emission tests in cases where utilization of emission factors as referenced in 40 CFR 60.14(b)(1) does not demonstrate to the Administrator's satisfaction whether the emission level resulting from the physical or operational change will either clearly increase or clearly not increase, or where an owner or operator demonstrates to the Administrator's satisfaction that there are reasonable grounds to dispute the result obtained by the Administrator utilizing emission factors as referenced in 40 CFR 60.14(b)(1). When the emission rate is based on results from manual emission tests or continuous monitoring systems, the procedures specified in 40 CFR 60 appendix C of 40 CFR 60 shall be used to determine whether an increase in emission rate has occurred. Tests shall be conducted under such conditions as the Administrator shall specify to the owner or operator based on representative performance of the facility. At least three valid test runs must be conducted before and at least three after the physical or operational change. All operating parameters which may affect emissions must be held constant to the maximum feasible degree for all test runs.

[Rule 62-296.800, F.A.C.; 40 CFR 60.14(b)].

(c) The addition of an affected facility to a stationary source as an expansion to that source or as a replacement for an existing facility shall not by itself bring within the applicability of this part any other facility within that source.

[Rule 62-296.800, F.A.C.; 40 CFR 60.14(c)].

(d) [Reserved]

(e) The following shall not, by themselves, be considered modifications under this part:

(1) Maintenance, repair, and replacement which the Administrator determines to be routine for a source category, subject to the provisions of 40 CFR 60.14(c) and 40 CFR 60.15.

(2) An increase in production rate of an existing facility, if that increase can be accomplished without a capital expenditure on that facility.

(3) An increase in the hours of operation.

(4) Use of an alternative fuel or raw material if, prior to the date any standard under this part becomes applicable to that source type, as provided by 40 CFR 60.1, the existing facility was designed to accommodate that alternative use. A facility shall be considered to be designed to accommodate an alternative fuel or raw material if that use could be accomplished under the facility's construction specifications as amended prior to the change. Conversion to coal required for energy considerations, as specified in section 111(a)(8) of the Act, shall not be considered a modification.

(5) The addition or use of any system or device whose primary function is the reduction of air pollutants, except when an emission control system is removed or is replaced by a system which the Administrator determines to be less environmentally beneficial.

(6) The relocation or change in ownership of an existing facility.

[Rule 62-296.800, F.A.C.; 40 CFR 60.14(e)].

(f) Special provisions set forth under an applicable subpart of this part shall supersede any conflicting provisions of this section.

[Rule 62-296.800, F.A.C.; 40 CFR 60.14(f)].

(g) Within 180 days of the completion of any physical or operational change subject to the control measures specified in 40 CFR 60.14(a), compliance with all applicable standards must be achieved.

[Rule 62-296.800, F.A.C.; 40 CFR 60.14(g)].

(h) No physical change, or change in the method of operation, at an existing electric utility steam generating unit shall be treated as a modification for the purposes of this section provided that such change does not increase the maximum hourly emissions of any pollutant regulated under this section above the maximum hourly emissions achievable at that unit during the 5 years prior to the change.

(i) Repowering projects that are awarded funding from the Department of Energy as permanent clean coal technology demonstration projects (or similar projects funded by EPA) are exempt from the requirements of this section provided that such change does not increase the maximum hourly emissions of any pollutant regulated under this section above the maximum hourly emissions achievable at that unit during the five years prior to the change.

(j) (1) Repowering projects that qualify for an extension under section 409(b) of the Clean Air Act are exempt from the requirements of this section, provided that such change does not increase the actual hourly emissions of any pollutant regulated under this section above the actual hourly emissions achievable at that unit during the 5 years prior to the change.

(2) This exemption shall not apply to any new unit that:

(i) Is designated as a replacement for an existing unit;

(ii) Qualifies under section 409(b) of the Clean Air Act for an extension of an emission limitation compliance date under section 405 of the Clean Air Act; and

(iii) Is located at a different site than the existing unit.

(k) The installation, operation, cessation, or removal of a temporary clean coal technology demonstration project is exempt from the requirements of this section. A *temporary clean coal control technology demonstration project*, for the purposes of this section is a clean coal technology demonstration project that is operated for a period of 5 years or less, and which complies with the State implementation plan for the State in which the project is located and other requirements necessary to attain and maintain the national ambient air quality standards during the project and after it is terminated.

(l) The reactivation of a very clean coal-fired electric utility steam generating unit is exempt from the requirements of this section.

40 CFR 60.15 Reconstruction.

(a) An existing facility, upon reconstruction, becomes an affected facility, irrespective of any change in emission rate.

[Rule 62-296.800, F.A.C.; 40 CFR 60.15(a)].

(b) "Reconstruction" means the replacement of components of an existing facility to such an extent that:

(1) The fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a comparable entirely new facility, and

(2) It is technologically and economically feasible to meet the applicable standards set forth in this part.

[Rule 62-296.800, F.A.C.; 40 CFR 60.15(b)].

(c) "Fixed capital cost" means the capital needed to provide all the depreciable components.

[Rule 62-296.800, F.A.C.; 40 CFR 60.15(c)].

(d) If an owner or operator of an existing facility proposes to replace components, and the fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a comparable entirely new facility, he shall notify the Administrator of the proposed replacements. The notice must be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced and must include the following information:

(1) Name and address of the owner or operator.

(2) The location of the existing facility.

(3) A brief description of the existing facility and the components which are to be replaced.

(4) A description of the existing air pollution control equipment and the proposed air pollution control equipment.

(5) An estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new facility.

(6) The estimated life of the existing facility after the replacements.

(7) A discussion of any economic or technical limitations the facility may have in complying with the applicable standards of performance after the proposed replacements.

[Rule 62-296.800, F.A.C.; 40 CFR 60.15(d)].

(e) The Administrator will determine, within 30 days of the receipt of the notice required by 40 CFR 60.15(d) and any additional information he may reasonably require, whether the proposed replacement constitutes reconstruction.

[Rule 62-296.800, F.A.C.; 40 CFR 60.15(e)].

(f) The Administrator's determination under 40 CFR 60.15(e) shall be based on:

(1) The fixed capital cost of the replacements in comparison to the fixed capital cost that would be required to construct a comparable entirely new facility;

(2) The estimated life of the facility after the replacements compared to the life of a comparable entirely new facility;

(3) The extent to which the components being replaced cause or contribute to the emissions from the facility; and

(4) Any economic or technical limitations on compliance with applicable standards of performance which are inherent in the proposed replacements.

[Rule 62-296.800, F.A.C.; 40 CFR 60.15(f)].

(g) Individual subparts of this part may include specific provisions which refine and delimit the concept of reconstruction set forth in this section.

[Rule 62-296.800, F.A.C.; 40 CFR 60.15(g)].

§ 60.18 General control device requirements.

(a) *Introduction.* This section contains requirements for control devices used to comply with applicable subparts of parts 60 and 61. The requirements are placed here for administrative convenience and only apply to facilities covered by subparts referring to this section.

(b) *Flares.* Paragraphs (c) through (f) apply to flares.

(c) (1) Flares shall be designed for and operated with no visible emissions as determined by the methods specified in paragraph (f), except for periods not to exceed a total of 5 minutes during any 2 consecutive hours.

(2) Flares shall be operated with a flame present at all times, as determined by the methods specified in paragraph (f).

(3) An owner/operator has the choice of adhering to either the heat content specifications in paragraph (c)(3)(ii) of this section and the maximum tip velocity specifications in paragraph (c)(4) of this section, or adhering to the requirements in paragraph (c)(3)(i) of this section.

(i) (A) Flares shall be used that have a diameter of 3 inches or greater, are nonassisted, have a hydrogen content of 8.0 percent (by volume), or greater, and are designed for and operated with an exit velocity less than 37.2 m/sec (122 ft/sec) and less than the velocity, V_{max} , as determined by the following equation:

$$V_{max} = (XH_2 - K_1) * K_2$$

Where:

V_{max} = Maximum permitted velocity, m/sec.

K_1 = Constant, 6.0 volume-percent hydrogen.

K_2 = Constant, 3.9(m/sec)/volume-percent hydrogen.

XH_2 = The volume-percent of hydrogen, on a wet basis, as calculated by using the American Society for Testing and Materials (ASTM) Method D1946-77. (Incorporated by reference as specified in § 60.17).

(B) The actual exit velocity of a flare shall be determined by the method specified in paragraph (f)(4) of this section.

(ii) Flares shall be used only with the net heating value of the gas being combusted being 11.2 MJ/scm (300 Btu/scf) or greater if the flare is steam-assisted or air-assisted; or with the net heating value of the gas being combusted being 7.45 MJ/scm (200 Btu/scf) or greater if the flare is nonassisted. The net heating value of the gas being combusted shall be determined by the methods specified in paragraph (f)(3) of this section.

(4) (i) Steam-assisted and nonassisted flares shall be designed for and operated with an exit velocity, as determined by the methods specified in paragraph (f)(4) of this section, less than 18.3 m/sec (60 ft/sec), except as provided in paragraphs (c)(4) (ii) and (iii) of this section.

(ii) Steam-assisted and nonassisted flares designed for and operated with an exit velocity, as determined by the methods specified in paragraph (f)(4), equal to or greater than 18.3 m/sec (60 ft/sec) but less than 122 m/sec (400 ft/sec) are allowed if the net heating value of the gas being combusted is greater than 37.3 MJ/scm (1,000 Btu/scf).

(iii) Steam-assisted and nonassisted flares designed for and operated with an exit velocity, as determined by the methods specified in paragraph (f)(4), less than the velocity, V_{max} , as determined by the method specified in paragraph (f)(5), and less than 122 m/sec (400 ft/sec) are allowed.

(5) Air-assisted flares shall be designed and operated with an exit velocity less than the velocity, V_{max} , as determined by the method specified in paragraph (f)(6).

(6) Flares used to comply with this section shall be steam-assisted, air-assisted, or nonassisted.

(d) Owners or operators of flares used to comply with the provisions of this subpart shall monitor these control devices to ensure that they are operated and maintained in conformance with their designs.

Applicable subparts will provide provisions stating how owners or operators of flares shall monitor these control devices.

(e) Flares used to comply with provisions of this subpart shall be operated at all times when emissions may be vented to them.

(f) (1) Method 22 of appendix A to this part shall be used to determine the compliance of flares with the visible emission provisions of this subpart. The observation period is 2 hours and shall be used according to Method 22.

(2) The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame.

(3) The net heating value of the gas being combusted in a flare shall be calculated using the following equation:

$$H_T = K \sum_{i=1}^n C_i H_i$$

Eq. 1

where:

HT=Net heating value of the sample, MJ/scm; where the net enthalpy per mole of offgas is based on combustion at 25 °C and 760 mm Hg, but the standard temperature for determining the volume corresponding to one mole is 20 °C;

$$K = \text{Constant}, 1.740 \times 10^{-7} \left(\frac{1}{\text{ppm}} \right) \left(\frac{\text{g mole}}{\text{scm}} \right) \left(\frac{\text{MJ}}{\text{kcal}} \right)$$

where the standard temperature for $\left(\frac{\text{g mole}}{\text{scm}} \right)$ is 20°C;

Eq. 2

Ci=Concentration of sample component i in ppm on a wet basis, as measured for organics by Reference Method 18 and measured for hydrogen and carbon monoxide by ASTM D1946-77 or 90 (Reapproved 1994) (Incorporated by reference as specified in § 60.17); and

Hi=Net heat of combustion of sample component i, kcal/g mole at 25 °C and 760 mm Hg. The heats of combustion may be determined using ASTM D2382-76 or 88 or D4809-95 (incorporated by reference as specified in § 60.17) if published values are not available or cannot be calculated.

(4) The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip.

(5) The maximum permitted velocity, Vmax, for flares complying with paragraph (c)(4)(iii) shall be determined by the following equation. $\text{Log}_{10}(V_{\text{max}}) = (HT + 28.8) / 31.7$

Vmax=Maximum permitted velocity, M/sec

28.8=Constant

31.7=Constant

HT=The net heating value as determined in paragraph (f)(3).

(6) The maximum permitted velocity, Vmax, for air-assisted flares shall be determined by the following equation. $V_{\text{max}} = 8.706 + 0.7084 (HT)$

Vmax=Maximum permitted velocity, m/sec

8.706=Constant

0.7084=Constant

HT=The net heating value as determined in paragraph (f)(3).

§ 60.19 General notification and reporting requirements.

(a) For the purposes of this part, time periods specified in days shall be measured in calendar days, even if the word “calendar” is absent, unless otherwise specified in an applicable requirement.

(b) For the purposes of this part, if an explicit postmark deadline is not specified in an applicable requirement for the submittal of a notification, application, report, or other written communication to the Administrator, the owner or operator shall postmark the submittal on or before the number of days specified in the applicable requirement. For example, if a notification must be submitted 15 days before a particular event is scheduled to take place, the notification shall be post-marked on or before 15 days preceding the event; likewise, if a notification must be submitted 15 days after a particular event takes place, the notification shall be delivered or postmarked on or before 15 days following the end of the event. The use of reliable non-Government mail carriers that provide indications of verifiable delivery of information required to be submitted to the Administrator, similar to the post-mark provided by the U.S. Postal Service, or alternative means of delivery, including the use of electronic media, agreed to by the permitting authority, is acceptable.

(c) Notwithstanding time periods or postmark deadlines specified in this part for the submittal of information to the Administrator by an owner or operator, or the review of such information by the Administrator, such time periods or deadlines may be changed by mutual agreement between the owner or operator and the Administrator. Procedures governing the implementation of this provision are specified in paragraph (f) of this section.

(d) If an owner or operator of an affected facility in a State with delegated authority is required to submit periodic reports under this part to the State, and if the State has an established timeline for the submission of periodic reports that is consistent with the reporting frequency(ies) specified for such facility under this part, the owner or operator may change the dates by which periodic reports under this part shall be submitted (without changing the frequency of reporting) to be consistent with the State’s schedule by mutual agreement between the owner or operator and the State. The allowance in the previous sentence applies in each State beginning 1 year after the affected facility is required to be in compliance with the applicable subpart in this part. Procedures governing the implementation of this provision are specified in paragraph (f) of this section.

(e) If an owner or operator supervises one or more stationary sources affected by standards set under this part and standards set under part 61, part 63, or both such parts of this chapter, he/she may arrange by mutual agreement between the owner or operator and the Administrator (or the State with an approved permit program) a common schedule on which periodic reports required by each applicable standard shall be submitted throughout the year. The allowance in the previous sentence applies in each State beginning 1 year after the stationary source is required to be in compliance with the applicable subpart in this part, or 1 year after the stationary source is required to be in compliance with the applicable 40 CFR part 61 or part 63 of this chapter standard, whichever is latest. Procedures governing the implementation of this provision are specified in paragraph (f) of this section.

(f) (1) (i) Until an adjustment of a time period or postmark deadline has been approved by the Administrator under paragraphs (f)(2) and (f)(3) of this section, the owner or operator of an affected facility remains strictly subject to the requirements of this part.

(ii) An owner or operator shall request the adjustment provided for in paragraphs (f)(2) and (f)(3) of this section each time he or she wishes to change an applicable time period or postmark deadline specified in this part.

(2) Notwithstanding time periods or postmark deadlines specified in this part for the submittal of information to the Administrator by an owner or operator, or the review of such information by the Administrator, such time periods or deadlines may be changed by mutual agreement between the owner or operator and the Administrator. An owner or operator who wishes to request a change in a time period or postmark deadline for a particular requirement shall request the adjustment in writing as soon as practicable before the subject activity is required to take place. The owner or operator shall include in the request whatever information he or she considers useful to convince the Administrator that an adjustment is warranted.

(3) If, in the Administrator's judgment, an owner or operator's request for an adjustment to a particular time period or postmark deadline is warranted, the Administrator will approve the adjustment. The Administrator will notify the owner or operator in writing of approval or disapproval of the request for an adjustment within 15 calendar days of receiving sufficient information to evaluate the request.

(4) If the Administrator is unable to meet a specified deadline, he or she will notify the owner or operator of any significant delay and inform the owner or operator of the amended schedule.

a.con

/raw

02/14/00

**ATTACHMENT NSPS
New Source Performance Standards (NSPS) of Title 40
Code of Federal Regulations**

Updated 2/13/02

Subpart OOO-Standards of Performance for Nonmetallic Mineral Processing Plants

§ 60.670 Applicability and designation of affected facility.

(a) (1) Except as provided in paragraphs (a)(2), (b), (c), and (d) of this section, the provisions of this subpart are applicable to the following affected facilities in fixed or portable nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station. Also, crushers and grinding mills at hot mix asphalt facilities that reduce the size of nonmetallic minerals embedded in recycled asphalt pavement and subsequent affected facilities up to, but not including, the first storage silo or bin are subject to the provisions of this subpart.

(2) The provisions of this subpart do not apply to the following operations: All facilities located in underground mines; and stand-alone screening operations at plants without crushers or grinding mills.

(b) An affected facility that is subject to the provisions of subpart F or I or that follows in the plant process any facility subject to the provisions of subparts F or I of this part is not subject to the provisions of this subpart.

(c) Facilities at the following plants are not subject to the provisions of this subpart:

(1) Fixed sand and gravel plants and crushed stone plants with capacities, as defined in § 60.671, of 23 megagrams per hour (25 tons per hour) or less;

(2) Portable sand and gravel plants and crushed stone plants with capacities, as defined in § 60.671, of 136 megagrams per hour (150 tons per hour) or less; and

(3) Common clay plants and pumice plants with capacities, as defined in § 60.671, of 9 megagrams per hour (10 tons per hour) or less.

(d) (1) When an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in § 60.671, having the same function as the existing facility, the new facility is exempt from the provisions of §§ 60.672, 60.674, and 60.675 except as provided for in paragraph (d)(3) of this section.

(2) An owner or operator complying with paragraph (d)(1) of this section shall submit the information required in § 60.676(a).

(3) An owner or operator replacing all existing facilities in a production line with new facilities does not qualify for the exemption described in paragraph (d)(1) of this section and must comply with the provisions of §§ 60.672, 60.674 and 60.675.

(e) An affected facility under paragraph (a) of this section that commences construction, reconstruction, or modification after August 31, 1983 is subject to the requirements of this part.

(f) Table 1 of this subpart specifies the provisions of subpart A of this part 60 that apply and those that do not apply to owners and operators of affected facilities subject to this subpart.

**TABLE 1 – APPLICABILITY OF SUBPART A
TO SUBPART OOO**

Subpart A reference	Applies to Subpart OOO	Comment
60.1, Applicability	Yes	
60.2, Definitions	Yes	
60.3, Units and abbreviations	Yes	
60.4, Address		
(a)	Yes	
(b)	Yes	
60.5, Determination of construction .. or modification.	Yes	
60.6, Review of plans	Yes	
60.7, Notification and recordkeeping	Yes	Except in (a)(2) report of anticipated date of initial startup is not required (60.676(h)).
60.8, Performance tests	Yes	Except in (d), after 30 days notice for an initially scheduled performance test, any rescheduled performance test requires 7 days notice, not 30 days (60.675(g)).
60.9, Availability of information	Yes	
60.10, State Authority	Yes	
60.11, Compliance with standards and maintenance requirements	Yes	Except in (b) under certain conditions (60.675(c)(3) and (c)(4)), Method 9 observation may be reduced from 3 hours to 1 hour. Some affected facilities exempted from Method 9 tests (60.675(h)).
60.12, Circumvention	Yes	
60.13, Monitoring requirements	Yes	
60.14, Modification	Yes	
60.15, Reconstruction	Yes	
60.16, Priority List	Yes	
60.17, Incorporated by reference	Yes	
60.18, General control device	No	Flares will not be used to comply with the emission limits.
60.19, General notification and reporting requirements	Yes	

[51 FR 31337, August 1, 1985, as amended at 62 FR 31359, June 9, 1997]

§ 60.671 Definitions.

All terms used in this subpart, but not specifically defined in this section, shall have the meaning given them in the Act and in subpart A of this part.

Bagging operation means the mechanical process by which bags are filled with nonmetallic minerals.

Belt conveyor means a conveying device that transports material from one location to another by means of an endless belt that is carried on a series of idlers and routed around a pulley at each end.

Bucket elevator means a conveying device of nonmetallic minerals consisting of a head and foot assembly which supports and drives an endless single or double strand chain or belt to which buckets are attached.

Building means any frame structure with a roof.

Capacity means the cumulative rated capacity of all initial crushers that are part of the plant.

Capture system means the equipment (including enclosures, hoods, ducts, fans, dampers, etc.) used to capture and transport particulate matter generated by one or more process operations to a control device.

Control device means the air pollution control equipment used to reduce particulate matter emissions released to the atmosphere from one or more process operations at a nonmetallic mineral processing plant.

Conveying system means a device for transporting materials from one piece of equipment or location to another location within a plant. Conveying systems include but are not limited to the following: Feeders, belt conveyors, bucket elevators and pneumatic systems.

Crusher means a machine used to crush any nonmetallic minerals, and includes, but is not limited to, the following types: jaw, gyratory, cone, roll, rod mill, hammermill, and impactor.

Enclosed truck or railcar loading station means that portion of a nonmetallic mineral processing plant where nonmetallic minerals are loaded by an enclosed conveying system into enclosed trucks or railcars.

Fixed plant means any nonmetallic mineral processing plant at which the processing equipment specified in § 60.670(a) is attached by a cable, chain, turnbuckle, bolt or other means (except electrical connections) to any anchor, slab, or structure including bedrock.

Fugitive emission means particulate matter that is not collected by a capture system and is released to the atmosphere at the point of generation.

Grinding mill means a machine used for the wet or dry fine crushing of any nonmetallic mineral. Grinding mills include, but are not limited to, the following types: hammer, roller, rod, pebble and ball, and fluid energy. The grinding mill includes the air conveying system, air separator, or air classifier, where such systems are used.

Initial crusher means any crusher into which nonmetallic minerals can be fed without prior crushing in the plant.

Nonmetallic mineral means any of the following minerals or any mixture of which the majority is any of the following minerals:

(a) Crushed and Broken Stone, including Limestone, Dolomite, Granite, Traprock, Sandstone, Quartz, Quartzite, Marl, Marble, Slate, Shale, Oil Shale, and Shell.

(b) Sand and Gravel.

(c) Clay including Kaolin, Fireclay, Bentonite, Fuller's Earth, Ball Clay, and Common Clay.

(d) Rock Salt.

(e) Gypsum.

(f) Sodium Compounds, including Sodium Carbonate, Sodium Chloride, and Sodium Sulfate.

- (g) Pumice.
- (h) Gilsonite.
- (i) Talc and Pyrophyllite.
- (j) Boron, including Borax, Kernite, and Colemanite.
- (k) Barite.
- (l) Fluorospars.
- (m) Feldspar.
- (n) Diatomite.
- (o) Perlite.
- (p) Vermiculite.
- (q) Mica.
- (r) Kyanite, including Andalusite, Sillimanite, Topaz, and Dumortierite.

Nonmetallic mineral processing plant means any combination of equipment that is used to crush or grind any nonmetallic mineral wherever located, including lime plants, power plants, steel mills, asphalt concrete plants, portland cement plants, or any other facility processing nonmetallic minerals except as provided in § 60.670 (b) and (c).

Portable plant means any nonmetallic mineral processing plant that is mounted on any chassis or skids and may be moved by the application of a lifting or pulling force. In addition, there shall be no cable, chain, turnbuckle, bolt or other means (except electrical connections) by which any piece of equipment is attached or clamped to any anchor, slab, or structure, including bedrock that must be removed prior to the application of a lifting or pulling force for the purpose of transporting the unit.

Production line means all affected facilities (crushers, grinding mills, screening operations, bucket elevators, belt conveyors, bagging operations, storage bins, and enclosed truck and railcar loading stations) which are directly connected or are connected together by a conveying system.

Screening operation means a device for separating material according to size by passing undersize material through one or more mesh surfaces (screens) in series, and retaining oversize material on the mesh surfaces (screens).

Size means the rated capacity in tons per hour of a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station; the total surface area of the top screen of a screening operation; the width of a conveyor belt; and the rated capacity in tons of a storage bin.

Stack emission means the particulate matter that is released to the atmosphere from a capture system.

Storage bin means a facility for storage (including surge bins) or nonmetallic minerals prior to further processing or loading.

Transfer point means a point in a conveying operation where the nonmetallic mineral is transferred to or from a belt conveyor except where the nonmetallic mineral is being transferred to a stockpile.

Truck dumping means the unloading of nonmetallic minerals from movable vehicles designed to transport nonmetallic minerals from one location to another. Movable vehicles include but are not limited to: trucks, front end loaders, skip hoists, and railcars.

Vent means an opening through which there is mechanically induced air flow for the purpose of exhausting from a building air carrying particulate matter emissions from one or more affected facilities.

Wet mining operation means a mining or dredging operation designed and operated to extract any nonmetallic mineral regulated under this subpart from deposits existing at or below the water table, where the nonmetallic mineral is saturated with water.

Wet screening operation means a screening operation at a nonmetallic mineral processing plant which removes unwanted material or which separates marketable fines from the product by

a washing process which is designed and operated at all times such that the product is saturated with water.

§ 60.672 Standard for particulate matter.

(a) On and after the date on which the performance test required to be conducted by § 60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any stack emissions which:

- (1) Contain particulate matter in excess of 0.05 g/dscm (0.022 gr/dscf); and
- (2) Exhibit greater than 7 percent opacity, unless the stack emissions are discharged from an affected facility using a wet scrubbing control device. Facilities using a wet scrubber must comply with the reporting provisions of § 60.676 (c), (d), and (e).

(b) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under § 60.11 of this part, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any fugitive emissions which exhibit greater than 10 percent opacity, except as provided in paragraphs (c), (d), and (e) of this section.

(c) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under § 60.11 of this part, no owner or operator shall cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15 percent opacity.

(d) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this section.

(e) If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a), (b) and (c) of this section, or the building enclosing the affected facility or facilities must comply with the following emission limits:

(1) No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions except emissions from a vent as defined in § 60.671.

(2) No owner or operator shall cause to be discharged into the atmosphere from any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility emissions which exceed the stack emissions limits in paragraph (a) of this section.

(f) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under § 60.11 of this part, no owner or operator shall cause to be discharged into the atmosphere from any baghouse that controls emissions from only an individual, enclosed storage bin, stack emissions which exhibit greater than 7 percent opacity.

(g) Owners or operators of multiple storage bins with combined stack emissions shall comply with the emission limits in paragraph (a)(1) and (a)(2) of this section.

(h) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup, no owner or operator shall cause to be discharged into the atmosphere any visible emissions from:

(1) Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin.

(2) Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.

§ 60.673 Reconstruction.

(a) The cost of replacement of ore-contact surfaces on processing equipment shall not be considered in calculating either the "fixed capital cost of the new components" or the "fixed capital cost that would be required to construct a comparable new facility" under § 60.15. Ore-contact surfaces are crushing surfaces; screen meshes, bars, and plates; conveyor belts; and elevator buckets.

(b) Under § 60.15, the "fixed capital cost of the new components" includes the fixed capital cost of all depreciable components (except components specified in paragraph (a) of this section) which are or will be replaced pursuant to all continuous programs of component replacement commenced within any 2-year period following August 31, 1983.

§ 60.674 Monitoring of operations.

The owner or operator of any affected facility subject to the provisions of this subpart which uses a wet scrubber to control emissions shall install, calibrate, maintain and operate the following monitoring devices:

(a) A device for the continuous measurement of the pressure loss of the gas stream through the scrubber. The monitoring device must be certified by the manufacturer to be accurate within ± 250 pascals ± 1 inch water gauge pressure and must be calibrated on an annual basis in accordance with manufacturer's instructions.

(b) A device for the continuous measurement of the scrubbing liquid flow rate to the wet scrubber. The monitoring device must be certified by the manufacturer to be accurate within ± 5 percent of design scrubbing liquid flow rate and must be calibrated on an annual basis in accordance with manufacturer's instructions.

§ 60.675 Test methods and procedures.

(a) In conducting the performance tests required in § 60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in § 60.8(b). Acceptable alternative methods and procedures are given in paragraph (e) of this section.

(b) The owner or operator shall determine compliance with the particulate matter standards in § 60.672(a) as follows:

(1) Method 5 or Method 17 shall be used to determine the particulate matter concentration. The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5, if the gas

stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121 °C (250 °F), to prevent water condensation on the filter.

(2) Method 9 and the procedures in § 60.11 shall be used to determine opacity.

(c) (1) In determining compliance with the particulate matter standards in § 60.672 (b) and (c), the owner or operator shall use Method 9 and the procedures in § 60.11, with the following additions:

(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).

(ii) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.

(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.

(2) In determining compliance with the opacity of stack emissions from any baghouse that controls emissions only from an individual enclosed storage bin under § 60.672(f) of this subpart, using Method 9, the duration of the Method 9 observations shall be 1 hour (ten 6-minute averages).

(3) When determining compliance with the fugitive emissions standard for any affected facility described under § 60.672(b) of this subpart, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:

(i) There are no individual readings greater than 10 percent opacity; and

(ii) There are no more than 3 readings of 10 percent for the 1-hour period.

(4) When determining compliance with the fugitive emissions standard for any crusher at which a capture system is not used as described under § 60.672(c) of this subpart, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:

(i) There are no individual readings greater than 15 percent opacity; and

(ii) There are no more than 3 readings of 15 percent for the 1-hour period.

(d) In determining compliance with § 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. The performance test for each building shall be at least 75 minutes in duration, with each side of the building and the roof being observed for at least 15 minutes.

(e) The owner or operator may use the following as alternatives to the reference methods and procedures specified in this section:

(1) For the method and procedure of paragraph (c) of this section, if emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used:

(i) Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream.

(ii) Separate the emissions so that the opacity of emissions from each affected facility can be read.

(f) To comply with § 60.676(d), the owner or operator shall record the measurements as required in § 60.676(c) using the monitoring devices in § 60.674 (a) and (b) during each particulate matter run and shall determine the averages.

(g) If, after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting any rescheduled performance test required in this section, the owner or operator of an affected facility shall submit a notice to the Administrator at least 7 days prior to any rescheduled performance test.

(h) Initial Method 9 performance tests under § 60.11 of this part and § 60.675 of this subpart are not required for:

(1) Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to, but not including the next crusher, grinding mill or storage bin.

(2) Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, that process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.

§ 60.676 Reporting and recordkeeping.

(a) Each owner or operator seeking to comply with § 60.670(d) shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment.

(1) For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station:

(i) The rated capacity in megagrams or tons per hour of the existing facility being replaced and

(ii) The rated capacity in tons per hour of the replacement equipment.

(2) For a screening operation:

(i) The total surface area of the top screen of the existing screening operation being replaced and

(ii) The total surface area of the top screen of the replacement screening operation.

(3) For a conveyor belt:

(i) The width of the existing belt being replaced and

(ii) The width of the replacement conveyor belt.

(4) For a storage bin:

(i) The rated capacity in megagrams or tons of the existing storage bin being replaced and

(ii) The rated capacity in megagrams or tons of replacement storage bins.

(b) [Reserved]

(c) During the initial performance test of a wet scrubber, and daily thereafter, the owner or operator shall record the measurements of both the change in pressure of the gas stream across the scrubber and the scrubbing liquid flow rate.

(d) After the initial performance test of a wet scrubber, the owner or operator shall submit semiannual reports to the Administrator of occurrences when the measurements of the scrubber pressure loss (or gain) and liquid flow rate differ by more than ± 30 percent from the averaged determined during the most recent performance test.

(e) The reports required under paragraph (d) shall be postmarked within 30 days following end of the second and fourth calendar quarters.

(f) The owner or operator of any affected facility shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in § 60.672 of this subpart, including reports of opacity observations made using Method 9 to demonstrate compliance with § 60.672(b), (c), and (f), and reports of observations using Method 22 to demonstrate compliance with § 60.672(e).

(g) The owner or operator of any screening operation, bucket elevator, or belt conveyor that processes saturated material and is subject to § 60.672(h) and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the 10 percent opacity limit in § 60.672(b) and the emission test requirements of § 60.11 and this subpart. Likewise a screening operation, bucket elevator, or belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the no visible emission limit in § 60.672(h).

(h) The subpart A requirement under § 60.7(a)(2) for notification of the anticipated date of initial startup of an affected facility shall be waived for owners or operators of affected facilities regulated under this subpart.

(i) A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator.

(1) For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the owner or operator to the Administrator. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.

(2) For portable aggregate processing plants, the notification of the actual date of initial startup shall include both the home office and the current address or location of the portable plant.

(j) The requirements of this section remain in force until and unless the Agency, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such States. In that event, affected facilities within the State will be relieved of the obligation to comply with the reporting requirements of this section, provided that they comply with requirements established by the State.

TECHNICAL EVALUATION

AND

PRELIMINARY DETERMINATION

FOR

Eagle Roofing Products Florida LLC

Sumter County

Construction Permit Application Number

1190045-001-AC

Roofing Tile Manufacturing Facility

Florida Department of Environmental Protection

Southwest District

Tampa, FL

November 17, 2006

Prepared by: Danny Stubbs

I. Project Description:

A. Applicant:

Seamus Burlingame, CEO
Eagle Roofing Products Florida LLC
3546 N. Riverside Avenue
Rialto, CA 92377

B. Engineer:

Eric Frohnapple, PE
Kleinfelder
2011 North Capital Avenue
San Jose, CA 95131

C. Project and Location:

This project is for the after-the-fact construction and initial operation of a synthetic non-Title V concrete roof tile manufacturing facility with a design capacity of approximately 315 million tiles per year. This facility will have the capability of manufacturing standard concrete roof tiles, comprised of plaster and gray cement and lightweight concrete roof tiles, comprised of shale and gray cement. Both standard and lightweight tiles can be produced in a variety of shapes depending upon the mold surface upon which the concrete tiles are formed. The primary pollutants generated at this facility include volatile organic compounds (VOC) and particulate matter. This facility is located at 1575 East County Road 470, Sumterville, Sumter County.

D. Process and Controls:

FACILITY DESCRIPTION – PERMITTED EMISSION UNITS

Emission Unit ID No. 001 – Sand and Shale Receiving and Handling System

This emission unit consists of sand and shale receiving and handling equipment. Bottom dump trucks deliver sand or shale to one of twelve enclosed, drive-over 220 ton receiving hoppers. The sand is delivered with a moisture content of approximately 6% while the shale is delivered with a moisture content of approximately 11%. The truck dumping area is an above-grade, “A-Frame” corrugated metal structure, open at both the entrance and exit. Conveyors located beneath the truck dump are enclosed in the framework. Sand or shale is conveyed from the receiving hoppers through a series of covered conveyor belts to a transfer tower. Material from the reject recycle tile system (processed in emissions units 005 and 006) may be blended in concentrations up to 7% by weight with the raw material feeds from truck unloading. This blending occurs on the covered conveyor belt located upstream of the transfer tower. Material is then transferred by covered conveyor to the screening process and then into one of two 100-ton compartments of the 200-ton storage bin. Material is then transferred by covered conveyor from the 200-ton storage bin to the aggregate/cement mixing building. This emission unit has a maximum throughput rate of 384 tons/hr. This rate includes both truck receiving and reject recycle tile material feeds combined. The maximum annual throughput rate, limited by tile production, is 1.11 MM tons/year.

Emission points consists of the following material transfer points:

- Truck deliveries to the 12 receiving hoppers,
- Receiving hopper to 4 belt conveyor drop points
- 10 conveyor belt drop points,
- The screening process, and
- The 200-ton storage bin.

To control particulate matter emissions, the conveyor belts used to transfer materials to the screening process and storage bin are covered. Conveyor belt transfer points and hopper release points are enclosed and water spray is activated, on an as-needed basis, to maintain sand moisture at 6 to 10 percent, and shale moisture content at 17 to 18 percent. Particulate matter emissions from the screening process are considered fugitive. However, particulate matter emissions from the screening process may be controlled by the dust collection system utilized by the reject tile crusher/screens (emission unit 005). The design airflow of the dust collection system at this screening process pickup point is approximately 800 dscfm to achieve 90% or greater collection. The controlled air is vented through the baghouse on emission unit 005, which has a control efficiency of 99.9%.

Emission Unit ID No. 002 – Cement Storage Silo (West)

This emission unit consists of a cement storage silo. Gray cement is pneumatically loaded from trucks into the silo where it is stored and later transferred through an enclosed screw conveyor into its own 60 ton hopper located in the aggregate/cement mixing building. The silo has a storage capacity of 350 tons, a maximum loading rate of 22.5 tons/hour and a maximum annual throughput rate of 197,100 tons/year. This silo is also equipped with two Cyclonaire Model 84-DC-25 baghouses, operating in parallel, to control particulate matter. Each baghouse is designed for 2,685 dscfm airflow and has a control efficiency of 99.9%.

Emission Unit ID No. 003 – Cement Storage Silo (East)

This emission unit description is identical to emission unit 002.

Emission Unit ID No. 004 – Tile Production Building

This emission unit includes several activities occurring within the tile production building. Specifically, this includes: (1) aggregate/cement mixing, (2) pigment mixing and (3) tile production.

- (1) *Aggregate/Cement Mixing Area* - This portion of the emission unit consists of activities associated with sand or shale and cement mixing. Sand or shale and cement from emission units 001, 002 and 003 are premixed together, in an enclosed area designated as the “Surge Bin Area”. Upon demand generated by operation of any of the four roofing tile manufacturing lines, sand or shale is automatically obtained from the base of one of the two 100-ton compartments of the 200-ton storage bin and transfers, via covered conveyor belts, to one of two 55-ton surge hoppers (containing either shale or sand). Also upon demand, gray cement is automatically obtained from the cement silos and transferred via enclosed screw conveyor to the two 60-ton cement hoppers.

Sand or shale is released from the hopper(s) to a separate “metering conveyor belt” for each individual roofing tile line. Cement is released from the hopper(s) to an enclosed screw conveyor onto a separate, enclosed metering conveyor belt for each individual roofing tile line. Sand or shale and cement are released from the metering conveyor belts onto raw

material conveyor belts for each roofing tile line. Sand or shale, and cement on each of the four (4) raw material conveyor belts are premixed in their own mixer. The mixed raw material is then transported via the raw material conveyor belts (one for each roofing tile line) through a narrow portal in the wall separating the Surge Bin Area from the main production building.

The maximum throughput for this equipment is 157.5 tons/hour and 1.38MM tons/year annually. Baghouse dust collectors (one for each of the four process lines) are used to control particulate matter emissions resulting from filling the cement hoppers, mixing activities and production line raw material feeds. Each baghouse is designed for 3,500 dscfm airflow and has a control efficiency of 99.9%. The four dust collectors discharge inside the building enclosure.

Note: In addition to the sand, shale and cement hoppers, an additional 60-ton surge hopper will be present for potential future use of other raw materials (possibly fly ash and white cement). This hopper will be installed in the Surge Bin Area, but will not be functionally connected to the roofing tile manufacturing lines or any raw material receiving or storage equipment.

- (2) Pigment Mix Sub Area - This portion of the emission unit consists of eight pigment mixing vats (five 800 gallon tanks and three 500 gallon tanks). The tops of these tanks are covered and the tanks are enclosed within the production building. Bagged dry pigment is added to the vats as needed and mixed with water. The maximum throughput for this emission unit is 0.9 tons/hour and 7,884 tons/year annually. A baghouse dust collector is used to control particulate matter generated from this activity. This baghouse discharges inside the building enclosure. The baghouse is designed for 3,500 dscfm airflow and has a control efficiency of 99.9%.
- (3) Tile Production Area - This portion of the emission unit combines sand or shale and cement, processed in the aggregate/cement mixing area, pigment and water as needed. Mixed raw material transported via a raw material conveyor belt (from the Surge Bin Area) is transferred onto two mixing conveyor belts (two for each roofing tile line). This material is mixed with water and calcium chloride using 18 beaters (9 beaters per conveyor) to create a slurry used to form roofing tiles. Colored pigment can be added if "color through" tiles are being produced. Eaglelite (a surfactant) can also be added if lightweight tiles are being produced. Calcium chloride and Eaglelite solution is piped from the storage tank area. This slurry is conveyed from the mixing conveyor belts to an extruder where the slurry is molded into a wet tile.

Particulate matter emissions are considered negligible because at this stage of the process, the materials are in a wet state. Two mold release compounds are used in this process: (1) a low-VOC vegetable oil compound used for all roofing tiles types except for "trim" tiles; (2) a naphthenic distillate compound used only for production of "trim" tiles. Form molds are coated with mold release compounds before the concrete is extruded on the mold. Additional surface and decorative embellishment color is added to the molded concrete depending upon order specifications. The tiles are then cured and an acrylic sealer is applied to protect the surface pigment from fading.

The tile production area consists of four production lines, each with a production capacity of 150 tiles per minute. Maximum design throughput is approximately 36,000 tiles/hour and

approximately 315 million tiles per year. Fugitive VOC emissions from mold release oil and acrylic sealers are emitted from the building.

Emission Unit ID No. 005 – Reject Tile Recycling Crusher System

This emission unit receives reject tile for recycling. Reject tiles are manually placed into a primary hopper with spikes rotating and breaking tile into smaller pieces. From the hopper, the material is transported via covered conveyor belt, to a jaw crusher. Crushed material is then transferred via covered conveyor belt to the vertical shaft impactor (VSI). After passing through the VSI, material is transferred via covered belt to an enclosed 2-deck shaker-screen. Oversized material is sent back to the VSI via covered conveyor belt. Undersized (“fine”) material is transferred by covered conveyor belt to the 100 ton bulk crushed tile storage bin/hopper (emission unit 006) where it is eventually conveyed back to the sand and shale handling system (emission unit 001) as raw aggregate.

Additionally, recycled materials generated from housekeeping and maintenance operations at the facility is manually transported to the fines material loading hopper. This material is also feed to the 2-deck shaker–screen via covered conveyor and processed.

The maximum throughput for this emission unit is 30 tons/hour and 78,840 tons/year annually. A dust collection system, with an overall design airflow of 13,600 dscfm and a control efficiency of 99.9%, is used to control particulate matter emissions from this system. The system has a total of 14 dust collector pickup points within the recycle tile crusher system. The points are as follows: (1) Dump hopper; (2) BC-21 feed; (3) BC-22 feed; (4) BC-27 feed; (5) Jaw Crusher inlet; (6) Jaw Crusher discharge / BC-23 feed; (7) BC-25 to BC-23 feed; (8) “Fine Materials” BC-28 feed; (9) BC-24 feed; (10) VSI discharge to BC-24; (11) VSI inlet; (12) Screener inlet; (13) BC-26 feed; and (14) BC-25 feed. Additionally, the dust collector system has a pickup point located at the screen tower in emission unit 001.

Emission Unit ID No. 006 – 100 Ton Bulk Crushed Tile Storage Bin

This emission unit receives undersized (“fine”) material transferred by covered conveyor belt from the enclosed 2-deck shaker-screen. This material conveyed back to the sand and shale handling system (emission unit 001) as raw aggregate. The 100 ton bulk crushed tile storage bin/hopper is equipped with a baghouse filter to control particulate matter emissions. This baghouse is designed for 532 dscfm airflow and has a control efficiency of 99.9%.

FACILITY DESCRIPTION – EXEMPT EMISSION UNITS AND/OR ACTIVITIES**Curing Enclosure Area**

This area consists of 40 of curing enclosures (10 per tile line) located in the tile production building. Propane fired burners are used to heat the curing enclosures. Concrete tiles are cured within a controlled temperature range (120 °F – 140 °F) as they are held in the curing enclosure for over 3.5 hours. The maximum propane usage rate for this emission unit is 240 cf/hour (6.557 gals./hr.). This process emits uncontrolled product of combustion pollutants from the propane burners. Based on the information supplied by the applicant in the permit application dated September 15, 2006, this activity is exempted from permitting pursuant to Generic Emission Unit Exemption Rule 62-210.300(3)(b)1., F.A.C.

Bulk Material Tanks

This facility has four 8000-gallon tanks used to store mold release oil (E-46), calcium chloride, and acrylic sealer. Based on the information supplied by the applicant in the permit application dated September 15, 2006, this activity is exempted from permitting pursuant to Generic and Temporary Exemption Rule 62-310.300(3)(b)1., F.A.C. Specifically, mold release oil (E-46) contained in tanks 1 and 2 will have negligible emissions due to its extremely low vapor pressure and VOC content. The calcium chloride / water mixture contained in tank 3 is not considered to be a regulated compound. Finally, the acrylic sealer contained in tank 4, contains the VOC, 2-ethylhexyl acrylate. However, potential emissions from this tank were estimated below 10 lb/year when evaluated using the EPA Tanks v4.0.9 modeling program.

E. Application Information:

- Received on: 9/15/2006
- Additional information requested on: 10/06/2006
- Additional information received on: 10/25/2006
- Application Complete: 11/09/2006
- Comments from MonierLifetile received on: 11/13/2006

II. Rule Applicability

This project is subject to the preconstruction review requirements of Chapter 403, Florida Statutes and Chapters 62-204 through 62-297, Florida Administrative Code (F.A.C.), as indicated below.

Subject to:	Y/N
Rule 62-212.300, Sources Not Subject to Prevention of Significant Deterioration or Nonattainment Requirements, F.A.C. ¹	Y
Rule 62-212.400, Prevention of Significant Deterioration, F.A.C. ²	N
Rule 62-296.320, General Particulate Emission Limiting Standards, F.A.C. ³	Y
Rule 62-296.320, General Pollutant Emission Limiting Standards, F.A.C. ⁴	Y
Rule 62-296.400, Stationary Source Emission Standards, F.A.C. ⁵	Y
Rule 62-296.500, Reasonably Available Control Technology (VOC) ⁶	N
Rule 62-296.700, Reasonably Available Control Technology (PM) ⁷	N
Rule 62-204.800, Standards of Performance for New Stationary Sources, F.A.C. ⁸ (NSPS)	Y
Rule 62-204.800, National Emission Standard for Hazardous Air Pollutants, F.A.C. ⁹ (NESHAPS)	N
Chapter 62-213, Operation Permits for Major Sources of Air Pollution, F.A.C. ¹⁰	N
Rule 62-297.310, General Compliance Test Requirements, F.A.C. ¹¹	Y

1. Not exempt from general permitting requirements
2. Facility is PSD minor source
3. Facility is a source of particulate emissions.
4. Facility is a source of VOCs, could also be a source of odor.
5. Rule 62-296.414, F.A.C. (Concrete Batching Plant)
6. Sumter County is not an air quality maintenance area and is not a nonattainment area for the air pollutant ozone.
7. Sumter County is not an air quality maintenance area and is not a nonattainment area for particulate matter.
8. This facility is subject to NSPS Subpart OOO.
9. Facility is minor for HAPs.
10. Facility is a minor non-Title V source.
11. Compliance testing is required particulate matter and visible emissions.

III. Summary of Emissions

Visible Emissions / PM (Allowables):

Desc.	Item	Opacity and PM Limits	Test Method(s)	Rule Basis
EU-001	Hopper and conveyor drop points and the screening process.	10 % Max	Method 9 and 40 CFR 60.675(c)(1) &(3)	40 CFR 60.672(b)
EU-002	Cement Silo baghouses (West)	5% Max	Method 9	62-296.414(1)
EU-003	Cement Silo baghouses (East)	5% Max	Method 9	62-296.414(1)
EU-004	Building (containing transfer point on a conveyor vented to baghouse).	No Visible emissions from building	Method 22 40 CFR 60.675(d)	40 CFR 60.672(e)(1) and (2)
EU-005	Dust collection system baghouse for the primary hopper, Jaw crusher, vertical shaft impactor and conveyors drop points.	5% Max 0.05 g/dscm (0.022 gr/dscf)	Methods 9 and 5 or 17 and 40 CFR 60.675(b)	40 CFR 60.672(a) and 62-296.414(1)
EU-006	Bulk crushed tile storage bin/hopper baghouse.	5% Max 0.05 g/dscm (0.022 gr/dscf)	Method 9 and 40 CFR 60.675(c)(2)	40 CFR 60.672(a) and (f) and 62-296.414(1)
Facility Wide		Less than 20%		Rule 62-296.320(4)(b)

Emissions Estimate (Tons/Year):

EU#	Description	PM	PM-10	VOC	CO	SO ₂	NO _x
001	Sand and Shale Receiving and Handling System	5.35	2.35				
002	Cement Storage Silo (West)	0.05	0.03				
003	Cement Storage Silo (East)	0.05	0.03				
004	Tile Production Building*	6.09	3.35	13.46			
005	Reject Tile Recycling Crusher System	1.91	0.77				
006	100 Ton Bulk Crushed Tile Storage Bin	0.03	0.01				
	Curing Enclosure Area	0.79	0.79	0.74	3.68	0.09	1.5
	Facility Totals	14.27	7.33	14.20	3.68	0.09	1.5

* Note: PM and PM-10 calculations submitted the RAI response letter dated October 25, 2006 did not take credit for building capture efficiencies and control device efficiencies and specifically states this information as a note in the calculations.

Title V Applicability Determination

This is a synthetic minor non-Title V facility based on volatile organic compound (VOC) emission limitation and the necessity of baghouse control devices for particulate matter emissions control.

PSD Applicability Determination

This facility is a minor source as defined by the Prevention of Significant Deterioration (PSD) regulation; therefore, PSD is not applicable.

IV. Conclusions

The emission limits proposed by the applicant will meet all of the requirements of Chapters 62-204 through 297, F.A.C.

The general and Specific Conditions listed in the proposed permit (attached) will assure compliance with all the applicable requirements of Chapters 62-204 through 297, F.A.C.

V. Proposed Agency Action

Pursuant to Section 403.087, Florida Statutes and Section 62-4.070, Florida Administrative Code, the Department hereby gives notice of its intent to issue a permit to construct the aforementioned air pollution source in accordance with the draft permit and its conditions as stipulated (see attached).