

Eagle Roofing Operating Permit Application

1575 E. County Road 470

Sumterville, Florida

PERMIT NO.: 1190045-001-AC

PROJECT NO. 88965

1190045-002-A0

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1575 E. County Road 470

Sumterville, Florida

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May 2, 2008

Mr. Danny Stubbs
Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, Florida 33637

Subject: Eagle Roofing Operating Permit Application
1575 E County Road 470
Sumterville, Florida
Permit No.: 1190045-001-AC

Dear Mr. Stubbs:

Kleinfelder is submitting an operating permit application package on behalf of Eagle Roofing Products Florida LLC (Eagle Florida) along with the application fee of \$6000.00.

Please note that the application includes a fourth tile production line that has not yet been installed; its installation is dependent upon future market needs. Kleinfelder stands ready to provide revised emissions calculations based solely on production for the three lines at your request. If the fourth tile line cannot be included in the operating permit, Eagle Florida would like to request an extension of the Construction Permit Expiration date, currently set at November 30, 2008.

If you have any questions or require any additional information, please contact Eric Carlson at (951) 506-1488 or Daizy Dandass-Peter at (785) 267-7131.


Respectfully submitted,

KLEINFELDER, INC.

Dept. Of Environmental Protection



Eric Carlson
Project Engineer



Karen Gale, PG
Senior Project Manager

MAY 07 2008

Southwest District

Enclosures: Operation Permit Application Package along with the attachments
Check No. 15242 in the amount of \$6,000.00
Attachments 1 through 4

cc: Victor Torcat, Eagle Roofing Products Florida, LLC
Gary Manlove, Eagle Roofing Products Florida, LLC
John Lohman, Kleinfelder (Austin, TX)
Daizy Dandass-Peter, Kleinfelder (Topeka, KS)



EAGLE ROOFING PRODUCTS

FLORIDA LLC
1575 EAST CR 470
P.O. BOX 338
SUMTERVILLE, FL 33585 U.S.A.
(909) 822-6000 FAX (909) 822-3516



74-478/724

015242

CHECK NO.	CHECK DATE	VENDOR NO.
15242	12/05/07	1196

PAY

**** SIX THOUSAND AND 00/100

*****\$6,000.00

TO THE
ORDER
OF

FDEP
SOUTHWEST DISTRICT
PO BOX 3070
TALLAHASSEE, FL 32315-3070

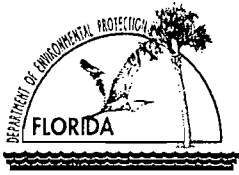
[Signature] M

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VOID AFTER 60 DAYS FROM ISSUE



Security features mentioned. Details on back.



Department of Environmental Protection

Division of Air Resources Management

APPLICATION FOR AIR PERMIT - NON-TITLE V SOURCE

See Instructions for Form No. 62-210.900(3)

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name: Eagle Roofing Products Florida LLC	
2. Site Name: Eagle Roofing Products Florida LLC	
3. Facility Identification Number: <input checked="" type="checkbox"/> Unknown	
4. Facility Location: Street Address or Other Locator: 1575 East County Road 470 City: Sumterville County: Sumter Zip Code: 33585	
5. Relocatable Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Existing Permitted Facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Application Contact

1. Name and Title of Application Contact: Mr. Gary Manlove, Director of Manufacturing	
2. Application Contact Mailing Address: Organization/Firm: Street Address: 1575 East County Road 470 City: Sumterville State: FL Zip Code: 33585	
3. Application Contact Telephone Numbers: Telephone: (352)552-8380 Fax: (352)568-1475	

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	
2. Permit Number:	

Dept. of Environmental
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MAY 07 2008

Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

Initial non-Title V air operation permit for one or more existing, but previously unpermitted, emissions units.

Initial non-Title V air operation permit for one or more newly constructed or modified emissions units.

Current construction permit number: 1190045-001-AC

Non-Title V air operation permit revision to address one or more newly constructed or modified emissions units.

Current construction permit number: _____

Operation permit number to be revised: _____

Initial non-Title V air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s):

Non-Title V air operation permit revision for a synthetic non-Title V source. Give reason for revision; e.g., to address one or more newly constructed or modified emissions units.

Operation permit number to be revised: _____

Reason for revision: _____

Air Construction Permit Application


This Application for Air Permit is submitted to obtain: (Check one)

Air construction permit to construct or modify one or more emissions units.

Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

Air construction permit for one or more existing, but unpermitted, emissions units.

Owner/Authorized Representative

1. Name and Title of Owner/Authorized Representative: <u>Seamus Burlingame, CEO</u>
2. Owner/Authorized Representative Mailing Address: Organization/Firm: Eagle Roofing Products Florida LLC Street Address: 3546 N. Riverside Avenue City: Rialto State:CA Zip Code:92377
3. Owner/Authorized Representative Telephone Numbers: Telephone: (909)822-6000 X 301 - Fax: (909)822-5761
4. Owner/Authorized Representative Statement: <i>I, the undersigned, am the owner or authorized representative* of the facility addressed in this application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.</i>  _____ Signature 05-05-08 _____ Date

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: John Lohman Registration Number: 65091
2. Professional Engineer Mailing Address: Organization/Firm: Kleinfelder Street Address: 3601 Manor Road City: Austin State: TX Zip Code: 78723
3. Professional Engineer Telephone Numbers: Telephone: (512)926-6650 Fax: (512)926-3312

Dept. of Environmental
Protection

4. Professional Engineer Statement:


I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.



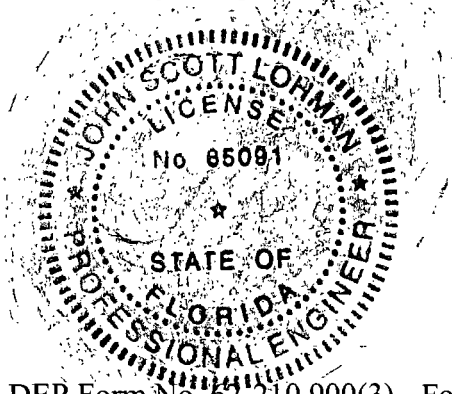
Signature

5/1/08

Date

(seal)

* Attach any exception to certification statement.



Dept. of Environmental
Protection

MAY 07 2008

Southwest District

Construction/Modification Information

1. Description of Proposed Project or Alterations:

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2. Projected or Actual Date of Commencement of Construction:

3. Projected Date of Completion of Construction:

Application Comment

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Facility Regulatory Classifications

Check all that apply:

1. <input type="checkbox"/> Small Business Stationary Source? <input type="checkbox"/> Unknown
2. <input checked="" type="checkbox"/> Synthetic Non-Title V Source? ? 1190045-001-AC 12/22/2006
3. <input checked="" type="checkbox"/> Synthetic Minor Source of Pollutants Other than HAPs
4. <input type="checkbox"/> Synthetic Minor Source of HAPs?
5. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NSPS?
6. <input type="checkbox"/> One or More Emission Units Subject to NESHAP Recordkeeping or Reporting?
7. Facility Regulatory Classifications Comment (limit to 200 characters): The facility is a non-Title V source based upon potential-to-emit with federally enforceable requirements pertaining to particulate and VOC emissions. Particulate emission limits associated with certain control devices are in accordance with 40 CFR 60 Subpart OOO. The facility is a true minor for all other regulated pollutants.

Rule Applicability Analysis

See Attachment 5 previously submitted with construction permit application.

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap		4. Basis for Emissions Cap	5. Pollutant Comment
		lb/hour	tons/year		
PM	SM				
VOC	SM				
SO2	B				
NOx	B				
CO	B				
PM10	SM				

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location: <input checked="" type="checkbox"/> Attached, Document ID: Fig 1 Att 1 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Facility Plot Plan: <input checked="" type="checkbox"/> Attached, Document ID: Fig 2 Att 1 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Process Flow Diagram(s): <input checked="" type="checkbox"/> Attached, Document ID: _Att 1___ <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Supplemental Information for Construction Permit Application: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
6. Supplemental Requirements Comment: Attachments are provided to supplement this permit application with detailed source information. Attachment 1 provides facility figures and process flow diagrams; Attachment 2 provides emissions calculations; Attachment 3 provides the performance test reports; and Attachment 4 provides the records requested in the construction permit application. According to 62-210.900(3) – Instructions, if any item of supplemental information requested in this subsection has been submitted to the Department within previous five years and would not be altered as a result of this permit application, it need not be resubmitted. Therefore, Attachments 2 (Process description at the facility), 4 (MSDS and vendor information) and 5 (<i>regulatory applicability analysis</i>) previously submitted with construction permit application will not be resubmitted.

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.</p> <p><input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.</p>		
<p>2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):</p> <p>Sand and shale receiving and handling system</p>		
<p>3. Emissions Unit Identification Number: <input type="checkbox"/> No ID ID: 001 <input type="checkbox"/> ID Unknown</p>		
<p>4. Emissions Unit Status Code: A</p>	<p>5. Initial Startup Date: 12/27/2006</p>	<p>6. Emissions Unit Major Group SIC Code: 32</p>
<p>7. Emissions Unit Comment: (Limit to 500 Characters)</p> <p>This emission unit consists of sand and shale receiving and handling equipment. The sand or shale is delivered to one of twelve enclosed 220 ton receiving hoppers by the bottom dump trucks and is conveyed from the receiving hoppers to a transfer tower, a screen tower and a two-compartment storage bin via a series of covered conveyor belts. A conveyor from the crushed tile storage bin/hopper also feeds the emission unit.</p> <p>This emission unit has a maximum throughput rate of 384 tons/hour which includes both truck receiving and reject recycle tile material feeds.</p>		

Emissions Unit Control Equipment

<p>1. Control Equipment/Method Description (limit to 200 characters per device or method):</p> <p>The conveyor system is equipped with water spray nozzles, to be used on an as-needed basis to maintain sand moisture at 6 to 8 percent, and shale moisture content at 17 to 18 percent for the reduction of dust emissions. Also, the conveyors are covered. The screening process is controlled by the dust collection system, which is exhausted through a baghouse with a control efficiency of 99.9%.</p>
<p>2. Control Device or Method Code(s): 018, 054, 061</p>

Emissions Unit Details

1. Package Unit:		
Manufacturer:		Model Number:
2. Generator Nameplate Rating:		MW
3. Incinerator Information:		
	Dwell Temperature:	°F
	Dwell Time:	seconds
	Incinerator Afterburner Temperature:	°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	1.18 MM tons/year (Limited by tile production)	
4. Maximum Production Rate:		
5. Requested Maximum Operating Schedule:		
	24 hours/day	7 days/week
	52 weeks/year	8760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):		
<p>The emission unit has a maximum throughput rate of 384 tons/hour.</p>		

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? Emission Unit 1		2. Emission Point Type Code: 4	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Material transfer points from bulk delivery, conveyor drop points, screening and storage transfer.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: Units 005 and 006			
5. Discharge Type Code: F	6. Stack Height: NA	feet	7. Exit Diameter: NA
			feet
8. Exit Temperature: 77°F	9. Actual Volumetric Flow Rate: NA	acfm	10. Water Vapor: NA
			%
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: 0 to 50	
			feet
13. Emission Point UTM Coordinates: Zone: 17 East (km): 394.482 North (km): 3178.653			
14. Emission Point Comment (limit to 200 characters): The emission points consist of the following material transfer points: truck deliveries to the 12 receiving hoppers; receiving hoppers to 4 belt conveyor drop points; 10 conveyor drop points; screening process; and one 200-ton storage bin.			

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 4

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Sand and shale delivery to drive over storage (Grizzly). The Grizzly contains 12 hoppers at 220 ton capacity each totaling 2,640 tons total storage capacity. Annual sand and shale throughput tonnage is dependent upon tile production.		
2. Source Classification Code (SCC): NA		3. SCC Units: Tons transferred or handled
4. Maximum Hourly Rate: 384 tons/hour	5. Maximum Annual Rate: 1.18 MM tons/year	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters): Loading and transfer rates are a function of delivery schedule and tile production.		

Segment Description and Rate: Segment 2 of 4

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Material transfer from storage hoppers through conveyors. Sand and shale tonnage is dependent upon tile production.		
2. Source Classification Code (SCC): NA		3. SCC Units: Tons transferred or handled
4. Maximum Hourly Rate: 384 tons/hour	5. Maximum Annual Rate: 1.18 MM tons/year	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters): Transfer rate is a function of tile production rate and schedule.		

Emissions Unit Information Section 1 of 6

Segment Description and Rate: Segment 3 of 4

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Sand and shale screening is dependent upon tile production.		
2. Source Classification Code (SCC): NA		3. SCC Units: Tons transferred or handled
4. Maximum Hourly Rate: 384 tons/hour	5. Maximum Annual Rate: 1.18 MM tons/year	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters): Transfer rate is a function of tile production rate and schedule.		

Segment Description and Rate: Segment 4 of 4

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Screened sand/shale transfer to/from 200 ton storage structure.		
2. Source Classification Code (SCC): NA		3. SCC Units: Tons transferred or handled
4. Maximum Hourly Rate: 384 tons/hour	5. Maximum Annual Rate: 1.18 MM tons/year	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters): Transfer rate is a function of tile production rate and schedule.		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM10		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 054 (screen)	4. Secondary Control Device Code: 018	5. Total Percent Efficiency of Control:99.9% (screen)	
6. Potential Emissions: 1.00 lb/hour		1.54 tons/year	7. Synthetically Limited? []
8. Emission Factor: See Attachment 2 Reference: See Attachment 2		9. Emissions Method Code: 3	
10. Calculation of Emissions (limit to 600 characters): See Attachment 2			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Potential Emissions

1. Pollutant Emitted: PM		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 054 (screen)	4. Secondary Control Device Code: 018	5. Total Percent Efficiency of Control:99.9% (screen)	
6. Potential Emissions: 2.37 lb/hour		3.64 tons/year	7. Synthetically Limited? []
8. Emission Factor: See Attachment 2 Reference: See Attachment 2		9. Emissions Method Code: 3	
10. Calculation of Emissions (limit to 600 characters): See Attachment 2			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

E. VISIBLE EMISSIONS INFORMATION
(Only Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE15	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Requested Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: Visible Emissions Evaluation (Method 9)	
5. Visible Emissions Comment (limit to 200 characters): Visible emissions will be limited per 40 CFR 60 (subpart OOO) requirements.	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u> Att 1 </u> <input type="checkbox"/> Not Applicable
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: <u> </u> <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input checked="" type="checkbox"/> Attached, Document ID: <u> previously submitted Att 2, 4 </u> <input type="checkbox"/> Not Applicable
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: <u> </u> <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input checked="" type="checkbox"/> Attached, Document ID: <u> Att 3 </u> <input type="checkbox"/> Previously submitted, Date: <u> </u> <input type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: <u> </u> <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: <u> </u> <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: <u> </u> <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: <u> </u> <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment: Attachment 4 is the daily and monthly records requested in the construction permit.

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).</p> <p><input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.</p>		
<p>2. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Cement Storage Silo West</p>		
<p>3. Emissions Unit Identification Number: <input type="checkbox"/> No ID ID: 002 <input type="checkbox"/> ID Unknown</p>		
<p>4. Emissions Unit Status Code: A</p>	<p>5. Initial Startup Date: 12/27/2006</p>	<p>6. Emissions Unit Major Group SIC Code: 32</p>
<p>6. Emissions Unit Comment: (Limit to 500 Characters)</p> <p>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 area. A baghouse located on top of the silo captures cement dust from the displaced air.</p>		

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): Displaced air is passed through a baghouse to remove cement dust.
2. Control Device or Method Code(s):018, 054

Emissions Unit Details

1. Package Unit: Manufacturer: Cyclonaire	Model Number:84-DC-25
2. Generator Nameplate Rating:	MW
3. Incinerator Information: Dwell Temperature:	°F
Dwell Time:	seconds
Incinerator Afterburner Temperature:	°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	mmBtu/hr
2. Maximum Incineration Rate:	lb/hr tons/day
3. Maximum Process or Throughput Rate:	197,100 tons/year
4. Maximum Production Rate:	
5. Requested Maximum Operating Schedule:	
24hours/day	7 days/week
52 weeks/year	8760 hours/year
7. Operating Capacity/Schedule Comment (limit to 200 characters): Loading rate is dependent on truck unloading rate, and is somewhat variable. Removal rate is dependent upon roofing tile production rate. Total annual tonnage of cement is estimated based on quantity of cement needed to produce maximum volume of tiles.	

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? Emission Unit 2		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Cement silo baghouse exhaust			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: No other common emission points			
5. Discharge Type Code: P	6. Stack Height: NA	feet	7. Exit Diameter: NA
			feet
8. Exit Temperature: 77°F	9. Actual Volumetric Flow Rate: 2685	acfm	10. Water Vapor: NA
			%
11. Maximum Dry Standard Flow Rate: 2685		dscfm	12. Nonstack Emission Point Height: ~50
			feet
13. Emission Point UTM Coordinates: Zone: 17 East (km):394.627 North (km):3178.584			
14. Emission Point Comment (limit to 200 characters): The emission point is the cement silo baghouse vent.			

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Cement is pneumatically loaded from closed delivery trucks to the cement storage silo. Cement tonnage is dependent upon delivery schedule and tile production rate.		
2. Source Classification Code (SCC): NA		3. SCC Units: Tons transferred or handled
4. Maximum Hourly Rate: 22.5 tons/hour	5. Maximum Annual Rate: 197,100 tons/year	6. Estimated Annual Activity Factor:NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters): Loading rate is a function of delivery schedule.		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM10		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 018	4. Secondary Control Device Code: 054	5. Total Percent Efficiency of Control:99.9	
6. Potential Emissions: 0.01 lb/hour 0.03 tons/year		7. Synthetically Limited? []	
8. Emission Factor:0.46 lb/ton Reference: USEPA AP-42 Ch 11.12		9. Emissions Method Code: 3	
10. Calculation of Emissions (limit to 600 characters): See Attachment 2			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Potential Emissions

1. Pollutant Emitted: PM		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 018	4. Secondary Control Device Code: 054	5. Total Percent Efficiency of Control:99.9	
6. Potential Emissions: 0.01 lb/hour 0.05 tons/year		7. Synthetically Limited? []	
8. Emission Factor:0.46 lb/ton Reference: USEPA AP-42 Ch 11.12		9. Emissions Method Code: 3	
10. Calculation of Emissions (limit to 600 characters): See Attachment 2			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Emissions Unit Information Section 2 of 6

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u>Att 1</u> <input type="checkbox"/> Not Applicable
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input checked="" type="checkbox"/> Attached, Document ID: <u>previously submitted Att 2, 4</u> <input type="checkbox"/> Not Applicable
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input checked="" type="checkbox"/> Attached, Document ID: <u>Att 3</u> <input type="checkbox"/> Previously submitted, Date: _____ <input type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment: Attachment 4 is the daily and monthly records requested in the construction permit.

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one) <input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent). <input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions. <input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.		
2. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Cement Storage Silo East		
3. Emissions Unit Identification Number: ID: 003 <input type="checkbox"/> No ID <input type="checkbox"/> ID Unknown 		
4. Emissions Unit Status Code: A	5. Initial Startup Date: 12/27/2006	6. Emissions Unit Major Group SIC Code: 32
8. Emissions Unit Comment: (Limit to 500 Characters) 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 area. A baghouse located on top of the silo captures cement dust from the displaced air.		

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): Displaced air is passed through a baghouse to remove cement dust.
2. Control Device or Method Code(s):018, 054

Emissions Unit Details

1. Package Unit: Manufacturer: Cyclonaire	Model Number:84-DC-25
2. Generator Nameplate Rating:	MW
3. Incinerator Information: Dwell Temperature:	°F
Dwell Time:	seconds
Incinerator Afterburner Temperature:	°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	mmBtu/hr
2. Maximum Incineration Rate:	lb/hr tons/day
3. Maximum Process or Throughput Rate:	197,100 tons/year
4. Maximum Production Rate:	
5. Requested Maximum Operating Schedule:	
24hours/day	7 days/week
52 weeks/year	8760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters): Loading rate is dependent on truck unloading rate, and is somewhat variable. Removal rate is dependent upon roofing tile production rate. Total annual tonnage of cement is estimated based on quantity of cement needed to produce maximum volume of tiles..	

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? Emission Unit 3		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Cement silo baghouse exhaust			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: No other common emission points			
5. Discharge Type Code: P	6. Stack Height: NA	feet	7. Exit Diameter: NA
			feet
8. Exit Temperature: 77°F	9. Actual Volumetric Flow Rate: 2685	acfm	10. Water Vapor: NA
			%
11. Maximum Dry Standard Flow Rate: 2685	dscfm	12. Nonstack Emission Point Height: ~50	feet
13. Emission Point UTM Coordinates: Zone: 17 East (km):394.627 North (km):3178.584			
14. Emission Point Comment (limit to 200 characters): The emission point is the cement silo baghouse vent.			

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Cement is pneumatically loaded from closed delivery trucks to the cement storage silo. Cement tonnage is dependent upon delivery schedule and tile production rate.		
2. Source Classification Code (SCC): NA	3. SCC Units: Tons transferred or handled	
4. Maximum Hourly Rate: 22.5 tons/hour	5. Maximum Annual Rate: 197,100 tons/year	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters): Loading rate is a function of delivery schedule.		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM10		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 018	4. Secondary Control Device Code: 054	5. Total Percent Efficiency of Control:99.9	
6. Potential Emissions: 0.01 lb/hour 0.03 tons/year		7. Synthetically Limited? []	
8. Emission Factor:0.46 lb/ton Reference: USEPA AP-42 Ch 11.12		9. Emissions Method Code: 3	
10. Calculation of Emissions (limit to 600 characters): See Attachment 2			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Potential Emissions

1. Pollutant Emitted: PM		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 018	4. Secondary Control Device Code: 054	5. Total Percent Efficiency of Control:99.9	
6. Potential Emissions: 0.01 lb/hour 0.05 tons/year		7. Synthetically Limited? []	
8. Emission Factor:0.46 lb/ton Reference: USEPA AP-42 Ch 11.12		9. Emissions Method Code: 3	
10. Calculation of Emissions (limit to 600 characters): See Attachment 2			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Emissions Unit Information Section 3 of 6

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u> Att 1 </u> <input type="checkbox"/> Not Applicable
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input checked="" type="checkbox"/> Attached, Document ID: <u> previously submitted Att 2, 4 </u> <input type="checkbox"/> Not Applicable
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input checked="" type="checkbox"/> Attached, Document ID: <u> Att 3 </u> <input type="checkbox"/> Previously submitted, Date: _____ <input type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment: Attachment 4 is the daily and monthly records requested in the construction permit.

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one) <input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent). <input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions. <input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.		
2. Description of Emissions Unit Addressed in This Section (limit to 60 characters): This emission unit includes several activities occurring within the Tile Production Building. The activities include: 1. Aggregate/cement mixing 2. Pigment mixing 3. Tile production		
3. Emissions Unit Identification Number: ID:004 <input type="checkbox"/> No ID <input type="checkbox"/> ID Unknown		
4. Emissions Unit Status Code: A	5. Initial Startup Date: 12/27/2006	6. Emissions Unit Major Group SIC Code: 32

Emissions Unit Information Section 4 of 6

7. Emissions Unit Comment: (Limit to 500 Characters)

1. Aggregate/cement mixing: This part of emission unit consists of activities associated with sand or shale and cement mixing. Sand/shale and cement from emission units 001, 002 and 003 are mixed together within an enclosed building. Four baghouse dust collectors are used to control particulate matter emissions resulting from filling the cement hoppers, mixing activities and production line raw material feeds.
2. Pigment mixing: This part of emission unit consists of eight pigment mixing vats(five 800 gallon tanks and three 500 gallon tanks). Bagged dry pigment is added to the vats as needed and mixed with water. A dust collector system with baghouse is used to control the dust emissions.
3. Tile production area: This part of the emission unit combines sand/shale and cement. There are four production lines which run in parallel. Each line can produce up to 150 tiles per minute or 600 tiles per minute aggregate.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method):

The aggregate/cement mixing process is housed within a building and includes dust collectors with baghouses.

The pigment mixing vats are enclosed within the production building which are also controlled with a dust collector system with baghouse.

For the tile production area, dry cement/shale enters the production area where it is mixed with water and pigment mix is added. Fugitive VOC emissions from mold release oil and acrylic sealers are emitted from the building.

2. Control Device or Method Code(s):018, 054

Emissions Unit Details

1. Package Unit:		
Manufacturer:		Model Number:
2. Generator Nameplate Rating:		MW
3. Incinerator Information:		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day

Emissions Unit Information Section 4 of 6

3. Maximum Process or Throughput Rate: 1.51 MM tons/yr(aggregate mix); 7884 tons/yr(pigment mix); 315 MM tiles/yr (tile production)	
4. Maximum Production Rate: NA (aggregate mix); NA (pigment mix); 600 tiles/minute(tile production)	
5. Requested Maximum Operating Schedule:	
24 hours/day	7 days/week
52 weeks/year	8760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):	
<p>For aggregate mix, capacity is dependent upon roofing tile production rate. For pigment mix, pigment usage is a direct function of roof tile production. For tile production, there are four production lines which run in parallel and each line can produce up to 150 tiles per minute.</p>	

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 4

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Aggregate/cement mixing		
2. Source Classification Code (SCC): NA		3. SCC Units: Tons transferred or handled
4. Maximum Hourly Rate: 157.5 tons/hr	5. Maximum Annual Rate: 1.51 MMTons/year	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters): Total tonnage transferred is the sum of aggregate and cement.		

Segment Description and Rate: Segment 2 of 4

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Pigment transfer to vats is directly related to tile production.		
2. Source Classification Code (SCC): NA		3. SCC Units: Tons used
4. Maximum Hourly Rate: 0.9 tons/hour	5. Maximum Annual Rate: 7884 tons/year	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters): Transfer rate is a direct function of roof tile production rate.		

Emissions Unit Information Section 4 of 6

Segment Description and Rate: Segment 3 of 4

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Molds are sprayed with a mold release oil prior to extruding concrete on the mold. Evaporation of the mold release oil is considered to be the emission unit segment.		
2. Source Classification Code (SCC): NA		3. SCC Units: Units processed
4. Maximum Hourly Rate: 36000	5. Maximum Annual Rate: 315,360,000	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters): The maximum production rate is 600 tiles per minute total.		

Segment Description and Rate: Segment 4 of 4

1. Segment Description (Process/Fuel Type) (limit to 500 characters): The surface of the cured tiles is coated with an acrylic sealer.		
2. Source Classification Code (SCC): NA		3. SCC Units: Gallons used
4. Maximum Hourly Rate: NA	5. Maximum Annual Rate: NA	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters): Sealer usage is a direct function of the tile production rate.		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**Potential Emissions**

1. Pollutant Emitted: PM10		2. Pollutant Regulatory Code: WP, EL	
3. Primary Control Device Code: 054	4. Secondary Control Device Code: 018	5. Total Percent Efficiency of Control: 99.9	
6. Potential Emissions: 0.18 lb/hour 0.79 tons/year (aggregate mix) 0.41 lb/hour 1.81 tons/year (pigment mix) 0.59 lb/hour 2.60 tons/year (total)		7. Synthetically Limited? [..]	
8. Emission Factor: See Attachment 2 (for aggregate mix) 0.46 lb/ton (for pigment mix) Reference: USEPA AP-42 11.12 and Attachment 2		9. Emissions Method Code: 4 (aggregate mix) 4 (pigment mix)	
10. Calculation of Emissions (limit to 600 characters): See Attachment 2			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Potential Emissions

1. Pollutant Emitted: VOC		2. Pollutant Regulatory Code: WP, EL	
3. Primary Control Device Code:	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:	
6. Potential Emissions: 1.89 lb/hour 8.28 tons/year		7. Synthetically Limited? [X]	
8. Emission Factor: See Attachment 2		9. Emissions Method Code: 2	
10. Calculation of Emissions (limit to 600 characters): See Attachment 2			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Emissions Unit Information Section 4 of 6

Potential Emissions

1. Pollutant Emitted: PM		2. Pollutant Regulatory Code: WP, EL	
3. Primary Control Device Code:054	4. Secondary Control Device Code:018	5. Total Percent Efficiency of Control: 99.9 (pigment mix)	
6. Potential Emissions: 0.38 lb/hour 1.67 tons/year (aggregate mix) 0.65 lb/hour 2.84 tons/year (pigment mix) 1.03 lb/hour 4.51 tons/year (total)		7. Synthetically Limited? []	
8. Emission Factor: See Attachment 3 (for aggregate mix) 0.72 lb/ton (for pigment mix) Reference: USEPA AP-42 11.12 and Attachment 2		9. Emissions Method Code: 4 (aggregate mix) 4 (pigment mix)	
10. Calculation of Emissions (limit to 600 characters): See Attachment 2			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: <u>Att 1</u> [] Not Applicable
2. Fuel Analysis or Specification [] Attached, Document ID: _____ [X] Not Applicable [] Waiver Requested
3. Detailed Description of Control Equipment [X] Attached, Document ID: <u>previously submitted Att 2, 4</u> [] Not Applicable
4. Description of Stack Sampling Facilities [] Attached, Document ID: _____ [X] Not Applicable [] Waiver Requested
5. Compliance Test Report [X] Attached, Document ID: <u>Att 3</u> [] Previously submitted, Date: _____ [] Not Applicable
6. Procedures for Startup and Shutdown [] Attached, Document ID: _____ [X] Not Applicable [] Waiver Requested
7. Operation and Maintenance Plan [] Attached, Document ID: _____ [X] Not Applicable [] Waiver Requested
8. Supplemental Information for Construction Permit Application [] Attached, Document ID: _____ [X] Not Applicable
9. Other Information Required by Rule or Statute [] Attached, Document ID: _____ [X] Not Applicable
10. Supplemental Requirements Comment: Attachment 4 is the daily and monthly records requested in the construction permit.

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).</p> <p><input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.</p>		
<p>2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):</p> <p>Reject tile recycling crusher system containing storage bins, conveyors, crushers and screens.</p>		
<p>3. Emissions Unit Identification Number: <input type="checkbox"/> No ID</p> <p>ID: 005 <input type="checkbox"/> ID Unknown</p>		
<p>4. Emissions Unit Status Code: A</p>	<p>5. Initial Startup Date: 6/19/2007</p>	<p>6. Emissions Unit Major Group SIC Code:32</p>
<p>7. Emissions Unit Comment: (Limit to 500 Characters)</p> <p>The reject tile recycling system takes the non-sellable tiles and processes them through a Jaw crusher followed by a vertical shaft impactor (VSI). The crushed material is then sent to an enclosed 2-deck shaker screen. Oversized material is sent back to the VSI and undersized material is transferred by the conveyor belt to the 100 ton bulk crushed tile storage bin/hopper where it is eventually conveyed back to sand and shale handling system as raw aggregate. A dust collection system is used to control particulate matter emissions.</p>		

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): Enclosures and baghouses are used with the storage bins, conveyors , crushers and screen.
2. Control Device or Method Code(s):018, 054

Emissions Unit Details

1. Package Unit: Manufacturer:	Model Number:
2. Generator Nameplate Rating:	MW
3. Incinerator Information: NA Dwell Temperature:	°F
Dwell Time:	seconds
Incinerator Afterburner Temperature:	°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: NA	mmBtu/hr
2. Maximum Incineration Rate: NA	lb/hr tons/day
3. Maximum Process or Throughput Rate: 30 tons/hour, 78,840 tons/year	
4. Maximum Production Rate: NA	
5. Requested Maximum Operating Schedule: 24 hours/day	7 days/week
52 weeks/year	8760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters): System operating capacity is limited by the quantity of reject tiles processed. It is assumed a maximum of 5% of the tiles are reject totaling 78,840 tons/year.	

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? Emission Unit 5		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Emission points are the conveyor drop points, crushers, screen and storage bin hoppers. All points are controlled.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: 001 and 006			
5. Discharge Type Code: F	6. Stack Height: NA	feet	7. Exit Diameter: NA
			feet
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate:3500 (baghouses) acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: 3500(baghouses) dscfm		12. Nonstack Emission Point Height: 0 to 50 ft	
13. Emission Point UTM Coordinates: Zone:17 East (km):394.399 North (km):3178.620			
14. Emission Point Comment (limit to 200 characters): This process will produce fugitive at each conveyor drop point, crushing unit, screening unit and storage hoppers.			

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): The initial tile crushing unit takes cracked and broken tiles and reduces them to a large rubble.		
2. Source Classification Code (SCC): NA		3. SCC Units: Tons transferred or handled
4. Maximum Hourly Rate: 30	5. Maximum Annual Rate: 78,840	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
6. Segment Comment (limit to 200 characters): The recycle tile quantity generated is a function of the tile production rate and process quality control. Maximum capacity is limited by the VSI crusher.		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): The secondary tile crushing unit takes the large rubble from the initial crushing unit and reduces it to dust.		
2. Source Classification Code (SCC):NA		3. SCC Units: Tons transferred or handled
4. Maximum Hourly Rate: 30	5. Maximum Annual Rate: 78,840	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters): The recycle tile quantity generated is a function of the tile production rate and process quality control. Maximum capacity is limited by the VSI crusher.		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM10		2. Pollutant Regulatory Code: WP	
3. Primary Control Device Code: 054	4. Secondary Control Device Code: 018	5. Total Percent Efficiency of Control: 99.9	
6. Potential Emissions: 0.49 lb/hr 0.64 tons/yr		7. Synthetically Limited? []	
8. Emission Factor: See attachment 2 Reference: Attachment 2		9. Emissions Method Code: 3	
10. Calculation of Emissions (limit to 600 characters): See Attachment 2			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Potential Emissions

1. Pollutant Emitted: PM		2. Pollutant Regulatory Code: WP	
3. Primary Control Device Code: 054	4. Secondary Control Device Code: 018	5. Total Percent Efficiency of Control: 99.9	
6. Potential Emissions: 1.24 lb/hr 1.63 tons/yr		7. Synthetically Limited? []	
8. Emission Factor: See attachment 2 Reference: Attachment 2		9. Emissions Method Code: 3	
10. Calculation of Emissions (limit to 600 characters): See Attachment 2			

Emissions Unit Information Section 5 of 6

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u>Att 1</u> <input type="checkbox"/> Not Applicable
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input checked="" type="checkbox"/> Attached, Document ID: <u>previously submitted Att 2, 4</u> <input type="checkbox"/> Not Applicable
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input checked="" type="checkbox"/> Attached, Document ID: <u>Att 3</u> <input type="checkbox"/> Previously submitted, Date: _____ <input type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment: Attachment 4 is the daily and monthly records requested in the construction permit.

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).</p> <p><input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.</p>		
<p>2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):</p> <p>100 Ton bulk crushed tile storage bin.</p>		
<p>3. Emissions Unit Identification Number: <input type="checkbox"/> No ID</p> <p>ID: 006 - <input type="checkbox"/> ID Unknown</p>		
<p>4. Emissions Unit Status Code:</p> <p>A</p>	<p>5. Initial Startup Date:</p> <p>6/19/2007</p>	<p>6. Emissions Unit Major Group SIC Code:</p> <p>32</p>
<p>7. Emissions Unit Comment: (Limit to 500 Characters)</p> <p>This emission unit receives undersized (fine) material transferred by covered conveyor belt from the enclosed 2-deck shaker screen. This material is conveyed back to the sand and shale handling system (emission unit 001) as raw aggregate.</p>		

Emissions Unit Information Section 6 of 6

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): 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%.
2. Control Device or Method Code(s):018

Emissions Unit Details

1. Package Unit: Manufacturer:	Model Number:
2. Generator Nameplate Rating:	MW
3. Incinerator Information:	
Dwell Temperature:	°F
Dwell Time:	seconds
Incinerator Afterburner Temperature:	°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	mmBtu/hr
2. Maximum Incineration Rate:	lb/hr tons/day
3. Maximum Process or Throughput Rate:	30 tons/hour, 78,840 tons/year
4. Maximum Production Rate:	NA
5. Requested Maximum Operating Schedule:	
24 hours/day	7 days/week
52 weeks/year	8760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):	

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? Emission Unit 6		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Emission points are the conveyor drop point and storage bin/hopper.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: Emission Unit 001			
5. Discharge Type Code: F	6. Stack Height: NA	feet	7. Exit Diameter: NA
		feet	
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate: 3500 (baghouse)	acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: 3500 (baghouses)		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: East (km): North (km):			
14. Emission Point Comment (limit to 200 characters): This process produces fugitive at the conveyor drop point and storage bin.			

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Material from the secondary tile crushing unit is screened; the material that passes the screen is moved to the 100 ton storage bin/hopper. Larger material is returned to the secondary tile crushing unit. The crushed material is re-introduced to the raw material stream of the sand and shale handling system (emission unit 001).		
2. Source Classification Code (SCC): NA		3. SCC Units: Tons transferred or handled
4. Maximum Hourly Rate: 30	5. Maximum Annual Rate: 78,840	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment 2 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): The crushed tile storage bin and hopper stores material until it can be introduced to the emission unit 1 process.		
2. Source Classification Code (SCC): NA		3. SCC Units: Tons transferred or handled
4. Maximum Hourly Rate: 30	5. Maximum Annual Rate: 78,840	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters):		

Emissions Unit Information Section 6 of 6

Segment Description and Rate: Segment 3 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): A covered conveyor system moves the material ultimately to emission unit 1.		
2. Source Classification Code (SCC): NA		3. SCC Units: Tons transferred or handled
4. Maximum Hourly Rate: 30	5. Maximum Annual Rate: 78,840	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM10		2. Pollutant Regulatory Code:	
3. Primary Control Device Code: 054	4. Secondary Control Device Code: 018	5. Total Percent Efficiency of Control: 99.9	
6. Potential Emissions: 0.02 lb/hour 0.02 tons/year		7. Synthetically Limited? []	
8. Emission Factor: See Attachment 2 Reference: See Attachment 2		9. Emissions Method Code: 3	
10. Calculation of Emissions (limit to 600 characters): See Attachment 2			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Potential Emissions

1. Pollutant Emitted: PM		2. Pollutant Regulatory Code:	
3. Primary Control Device Code: 054	4. Secondary Control Device Code: 018	5. Total Percent Efficiency Of Control: 99.9	
6. Potential Emissions: 0.04 lb/hour 0.05 tons/year		7. Synthetically Limited? []	
9. Emission Factor: See Attachment 2 Reference: See Attachment 2		9. Emissions Method Code: 3	
10. Calculation of Emissions (limit to 600 characters): See Attachment 2			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Emissions Unit Information Section 6 of 6

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u>Att 1</u> <input type="checkbox"/> Not Applicable
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input checked="" type="checkbox"/> Attached, Document ID: <u>previously submitted Att 2, 4</u> <input type="checkbox"/> Not Applicable
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input checked="" type="checkbox"/> Attached, Document ID: <u>Att 3</u> <input type="checkbox"/> Previously submitted, Date: _____ <input type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment: Attachment 4 is the daily and monthly records requested in the construction permit.

**Department of Environmental Protection
Division of Air Resources Management**

**INSTRUCTIONS FOR DEP FORM NO. 62-210.900(3)
APPLICATION FOR AIR PERMIT - NON-TITLE V SOURCE**

GENERAL INSTRUCTIONS

USE OF THIS FORM

The **Application for Air Permit - Non-Title V Source** is to be used for all applications for air construction permits and initial or revised air operation permits for non-Title V sources, including federally enforceable state air operation permits (FESOPs). The form, including these instructions, has been adopted by the Department of Environmental Protection (DEP) as Rule 62-210.900(3), F.A.C., and is available as a hard-copy or word processing document, or as an executable program for electronic submission on computer diskette. Copies of the form and instructions may be obtained from any DEP air permitting office or from the Division of Air Resources Management (DARM) through its website at www.dep.state.fl.us/air.

ELECTRONIC SUBMISSION

The Department encourages air permit applications to be submitted electronically using the DARM's permit application software. The electronic application is designed to save work for the applicant while helping the Department maintain an accurate database of permitted facilities. For example, rather than entering all the of information required on the form, applicants may import information currently stored in the Department's Air Resources Management System (ARMS) database into the electronic product and simply correct any inaccuracies that are found. The electronic permit application form may obtained from the DARM through its website at www.dep.state.fl/air or by calling the Electronic Products Help Line at (850) 921-9557.

SMALL BUSINESS TECHNICAL AND COMPLIANCE ASSISTANCE

The Department of Environmental Protection has established a small-business technical and environmental compliance assistance program in the Division of Air Resources Management. The program has responsibility to assist small-business stationary sources of air pollution in determining applicable permit requirements, collect and disseminate information concerning compliance methods and technologies, and provide information regarding pollution prevention and accidental release detection and prevention. Small businesses requiring assistance may contact the program office by calling 1-800-SBAP-HLP (1-800-722-7457).

DEFINITIONS

Definitions of terms used throughout these instructions are as set forth in Rule 62-210.200, F.A.C., including the terms "facility," "Title V source," and "emissions unit." The terms "DEP" and "Department" are meant to be inclusive of all local air programs which have been delegated permitting authority.

DATA FORMATS

Data obtained from the Application for Air Permit are stored in the Department's Air Resources Management System (ARMS), a computer database which supports the agency's air permitting, compliance monitoring, emissions inventory, enforcement and reporting activities. In accordance with federal reporting requirements, information in ARMS is transmitted to the U.S. Environmental Protection Agency (EPA) for inclusion in the EPA's Aerometric Information Retrieval System (AIRS). Therefore, the Application for Air Permit is structured so as to provide the information needed for permit processing in formats that are compatible with the data handling conventions of ARMS and AIRS.

APPLICATION PROCEDURES

Permits Required

As set forth in Rule 62-210.300, F.A.C., the owner or operator of any emissions unit which emits or can reasonably be expected to emit any air pollutant shall obtain an appropriate permit from the Department of Environmental Protection prior to beginning construction, modification, or initial or continued operation of the emissions unit unless exempted pursuant to rule or statute.

Unless exempt from permitting pursuant to Rule 62-210.300(3)(a) or (b), F.A.C., or Rule 62-4.040, F.A.C. an air construction permit shall be obtained by the owner or operator of any proposed new or modified facility or emissions unit prior to the beginning of construction or modification of the facility or emissions unit. Applicants are encouraged to submit the application sufficiently in advance of the planned start of construction to allow time for permit processing and any possible administrative hearing. Applicants are also encouraged to obtain local zoning approval for any proposed new facility prior to submitting an application to the Department.

An air operation permit or permit revision shall be obtained by the owner or operator of any new or modified facility or emissions unit subsequent to construction or modification of the facility or emissions unit and after demonstrating compliance in accordance with the terms and conditions of the construction permit. If the Department chooses to permit a newly constructed or modified emissions unit under an existing facility-wide or multiple-emissions unit air operation permit, the owner or operator of the facility shall obtain an appropriate revision or administrative correction of the existing operation permit to address the new or modified emissions unit.

As set forth in Rule 62-4.090, F.A.C., a timely and sufficient application for an air operation permit renewal shall be submitted by the owner or operator of any facility or emissions unit prior to continuing the operation of the facility or emissions unit beyond the permit expiration date. For non-Title V air operation permits, the permittee shall apply for renewal prior to 60 days before the expiration date of such permit.

The owner or operator of an existing facility or emissions unit may propose to assume a federally enforceable restriction on the hours of operation or on the type or amount of material combusted, stored, or processed, thereby synthetically reducing the potential emissions of the facility or emissions unit. For example, an owner or operator may wish to escape the Title V air operation permitting requirements of Chapter 62-213, F.A.C., by synthetically reducing the potential emissions of a facility below the applicability thresholds of that rule. In such case, the owner or operator shall apply for a FESOP pursuant to Rule 62-210.300(2)(b), F.A.C., requesting the Department to impose such restriction as a specific condition of the permit

Duty to Submit Application

The applicant for an air construction permit or initial/revised air operation permit for a non-Title V source shall submit an **Application for Air Permit - Non-Title V Source** to the appropriate district office of the Department of Environmental Protection or local air pollution control agency to which the Department has delegated permitting authority. The application should be submitted to the DEP district office or delegated local air program office having permitting jurisdiction over the county in which the facility is located. Information regarding local air pollution control agencies which have been delegated permitting authority may be obtained from the DEP district air sections.

The **Application for Air Permit - Non-title V Source** does not necessarily provide all the information needed by the Department to process a permit application. In some cases, the applicant may need to supplement the application form with other information requested on the form or otherwise required by rule or statute. Examples of such other information are plot plans, flow diagrams, control equipment design details, stack test reports, operation and maintenance plans, and air quality modeling reports.

It is also possible that the Department may not need all the information called for on the application form. For example, if an application is being submitted to obtain a revision to an air operation permit prior to its scheduled renewal, the Department only needs information related to or affected by the revision being sought. In such case, the applicant should coordinate with the Department prior to submittal of the application to ensure the acceptability of excluding specific items of information not considered necessary.

In accordance with the provisions of Section 403.111, Florida Statutes, the applicant may request that certain information be kept confidential. Any information submitted to the Department under a claim of confidentiality should be submitted separately from the application form.

The Application for Air Permit and all required supplemental information must be filed with the Department in quadruplicate (if submitted in hard-copy) and in accordance with all other applicable provisions of Chapter 62-4, F.A.C. If the application is submitted using the Department's electronic permit application software, only one copy of the application diskette is required along with one hard copy of Section I of the form containing the applicant's and professional engineer's signatures.

Application Processing Fee

Each permit application shall be accompanied by the appropriate processing fee as set forth in Rule 62-4.050, F.A.C.

In general, a separate air permit application fee is required for each emissions unit. However, in accordance with Rule 62-4.050(4)(a)3., F.A.C., where new or existing multiple emissions units located at the same facility are substantially similar in nature, the applicant may submit a single application and permit fee for construction or operation of the similar emissions units at the facility. To be considered substantially similar, each of the emissions units must be substantially similar in regard to each of the following: nominal description or type of emissions unit; type of fuel burned; type of material processed, stored, or handled; type of air pollution control equipment; pollutants emitted; applicable emissions standards; and applicable regulatory control criteria.

For an air construction permit, the single application fee shall be the fee that would apply for a single emissions unit with emissions that equal the total of the potential emissions of all of the substantially similar emissions units at the facility. The fee for an air operation permit for a

group of similar emissions units at the same facility, submitted under the same application and with the same emissions testing or monitoring requirements, shall be the fee that would apply to any emissions unit in the group if each emissions unit were being permitted singly. If any two emissions units would be subject to different operation permit processing fees if they were being permitted singly, they are clearly not subject to the same air regulatory requirements and, therefore, cannot be considered similar.

Scope of Application

An Application for Air Permit may address a single emissions unit or multiple emissions units at a facility. If the owner or operator of a facility is submitting an air permit application addressing more than one emissions unit within the facility (as will often be the case for initial FESOP applications), a separate Emissions Unit Information Section (Section III of the **Application for Air Permit - Non-Title V Source**) must be completed for each such emissions unit.

Whether the application addresses a single emissions unit or multiple emissions units, a separate Emissions Unit Information Section is generally required for each process or production unit, or pollutant-emitting activity, at a facility. (The terms "process/production unit" and "pollutant emitting activity" describe types of "emissions units" as defined under Rule 62-210.200, F.A.C.) However, two or more process/production units or activities which are regulated collectively may be addressed in a single Emissions Unit Information Section. Examples of this situation would be a group of volatile organic liquid storage tanks regulated in terms of the group's total capacity and throughput, a group of related, small manufacturing operations regulated in terms of the total production rate of the group, or a bank of combustion turbines regulated in terms of total fuel consumption for the bank.

Two or more process/production units or activities which would be regulated individually must be addressed in separate Emissions Unit Information Sections, even if the emissions units are "similar" and only one air permit application processing fee is assessed. An example of this situation would be two similar boilers, each of which would be tested for compliance with emission limitations individually.

In general, any readily identifiable source of process-related fugitive emissions, such as an unenclosed product coating operation, or any diffuse source of fugitive emissions that is subject to regulation, such as equipment leaks regulated under 40 CFR 61, Subpart V, should be addressed as a specific emissions unit in a separate Emissions Unit Information Section.

As explained above, a one-to-one correspondence between application processing fees and Emissions Unit Information Sections, though common, is not required. An application for which only one processing fee is charged may consist of more than one Emissions Unit Information Section. Furthermore, the Department may choose to issue a single permit covering multiple, non-similar emissions units. Any such multiple-emissions unit permit for a non-Title V source will require more than one application processing fee. Irrespective of the number of application fees and permits involved, each process/production unit, group of process/production units, or emission point subject to an individual determination of compliance shall be treated as a single emissions unit for purposes of completing the Emissions Unit Information Section of the Application for Air Permit.

Note: Additional information regarding the manner in which emissions units are defined for purposes of completing the **Application for Air Permit - Non-Title V Source** is found in Section III of the specific Instructions to Form.

INSTRUCTIONS TO FORM

I. APPLICATION INFORMATION

Identification of Facility

1. **Facility Owner/Company Name** - Enter the name of the corporation, business, governmental entity, or individual that has ownership or control of the facility addressed in this application for an air permit. Common abbreviations should be used with blanks left between each word to insure readable entries (e.g., Fla. Electric Co., U.S. Pulp, Inc., Dept. of Health, etc.).
2. **Site Name** - Enter the common name, if any, of the facility site addressed in this application (e.g., Okeechobee Plant, Fernandina Mill, Fla. State Hospital, etc.). Also use this field to enter any alias name under which the corporate owner of the facility is doing business. This field is optional and may be left blank.
3. **Facility Identification Number** - Enter the facility identification number, if known. Otherwise, check "Unknown."
4. **Facility Location**
 - Street Address or Other Locator** - Enter the street address or approximate location of the facility as shown on a road map. This may be an intersection description or any locator which will allow a person unfamiliar with the facility to determine its physical location (e.g., 3 mi. W. of U.S. 41 off S.R. 786; etc.).
 - City** - Enter the name of the city in which the facility is located. If the facility is not located within city limits, enter the name of the nearest city preceded by "N. of," "W. of," etc.
 - County** - Enter the name of the county in which the facility is located.
 - Zip Code** - Enter the five-digit postal zip code of the facility's physical location (not necessarily the mailing address zip code).
5. **Relocatable Facility** - Check "Yes" if the facility addressed in this application is a relocatable facility as defined in Rule 62-210.200, F.A.C. Otherwise, check "No."
6. **Existing Permitted Facility?** - Check "Yes" if the facility addressed in this application currently holds a DEP air permit for one or more emissions units. Otherwise, check "No."

Application Contact

1. **Name and Title of Application Contact** - Enter the name and title of the person the Department may contact regarding any information contained in this application.
2. **Application Contact Mailing Address** - Enter the complete mailing address of the application contact named in Field 1.
3. **Application Contact Telephone Numbers** - Enter the telephone number and FAX number, if available, of the application contact.

Application Processing Information (DEP Use)

The purpose of this part of the Application for Air Permit form is to provide hard-copy documentation of the ARMS tracking record created for this application.

1. **Date of Receipt of Application** - Record the date of receipt by the Department of this air permit application, as entered into ARMS.
2. **Permit Number** - Record the permit number assigned by ARMS to this application.

Purpose of Application

Check the purpose for which this Application for Air Permit is submitted.

Owner/Authorized Representative

1. **Name and Title of Owner/Authorized Representative** - Enter the name and title of the individual owner or authorized representative of the corporate or governmental owner of the facility addressed in this Application for Air Permit. This must be the person who signs this application and is authorized to sign any permit-required reports and otherwise act in an official capacity on all matters related to any permit issued pursuant to this application. Furthermore, this is the person to whom the Department will direct official mailings such as notifications of permit renewals and invoices for annual operation license fees.

Note: If the authorized representative of the facility addressed in this application is not the individual owner of the facility, an officer of the corporation that owns or operates the facility, or an elected official of the governmental unit that owns or operates the facility, a letter of authorization from such owner, officer, or elected official designating the person named in this field as the authorized representative must be submitted. If such a letter is on file with the Department, it need not be resubmitted.

2. **Owner/Authorized Representative Mailing Address** - Enter the complete mailing address of the owner or authorized representative of the owner named in Field 1, including the nine-digit postal zip code. This is the address to which the Department will direct all official correspondence such as notifications of permit renewals and invoices for annual operation license fees. It must be an address to which certified mail may be delivered and its receipt acknowledged.
3. **Owner/Authorized Representative Telephone Numbers** - Enter the telephone number and FAX number, if available, of the owner, authorized representative of the owner, or responsible official.
4. **Owner/Authorized Representative Statement** - This statement must be signed and dated by the person named in Field 1.

Professional Engineer Certification

This certification must be completed if the services of a Professional Engineer are required pursuant to Chapter 471, Florida Statutes, and Rule 62-4.050, F.A.C.

1. **Name and Registration Number of Professional Engineer** - Enter the name and registration number of the Professional Engineer whose signature and seal appears on this Application for Air Permit.
2. **Professional Engineer Mailing Address** - Enter the complete mailing address of the Professional Engineer named in Field 1.

3. **Professional Engineer Telephone Numbers** - Enter the telephone number and, if available, the FAX number of the Professional Engineer.
4. **Professional Engineer Statement** - This statement must be signed, sealed, and dated by the Professional Engineer named in Field 1.

Scope of Application

List all emissions units covered by this permit application, each of which must be addressed in a separate Emissions Unit Information Section (Section III of the Application for Air Permit). For each such emissions unit, enter the emissions unit identification number, if known; a brief description of the emissions unit; the appropriate permit type code; and the permit processing fee applicable to the emissions unit. Include any unit designations and other information helpful in describing the emissions unit and differentiating it from other emissions units at the facility. Example descriptions are given in the instructions for "Description of Emissions Unit" in Section III-A. Enter from the list below the appropriate permit type code for each emissions unit. These codes correspond to the fee schedule in Rule 62-4.050, F.A.C., and allow entry of the proper processing fee for each emissions unit addressed in this application.

<u>Code</u>	<u>Type</u>
AC1C	Construction permit for emissions unit having potential emissions of 50 tpy or more, but less than 100 tpy of any single pollutant
AC1D	Construction permit for emissions unit having potential emissions of 25 tpy or more, but less than 50 tpy of any single pollutant
AC1E	Construction permit for emissions unit having potential emissions of 5 tpy or more, but less than 25 tpy of any single pollutant
AC1F	Construction permit for emissions unit having potential emissions of less than 5 tpy of each pollutant
ACM1	Minor revision to construction permit
ACM2	Minor revision to construction permit for which the permit fee is less than \$300
AF2A	Federally enforceable state operation permit for emissions unit required to measure actual emissions by stack sampling
AF2B	Federally enforceable state operation permit for emissions unit required to measure actual emissions by any method other than stack sampling
AF2C	Federally enforceable state operation permit for emissions unit not required to measure actual emissions
AFMM	Minor revision to federally enforceable state operation permit
AO2A	State operation permit for emissions unit required to measure actual emissions by stack sampling
AO2B	State operation permit for emissions unit required to measure actual emissions by any method other than stack sampling
AO2C	State operation permit for emissions unit not required to measure actual emissions

Application Processing Fee

Check whether the appropriate application processing fee, as set forth in Rule 62-4.050, F.A.C., and summed from the Scope of Application table, has been attached; indicate the amount paid; and show any fee calculations. If no application fee is required, check "Not Applicable."

Construction/Modification Information

This information must be provided only if this Application for Air Permit is being submitted for the purpose of obtaining either an air construction permit for one or more proposed new or modified emissions units or a post-construction air operation permit or permit revision for one or more newly constructed or modified emissions units.

1. **Description of Proposed Project or Alterations** - If an air construction permit is being applied for, provide a detailed description of the proposed construction or modification project including any new emissions units, emissions unit modifications, and associated changes to other emissions units at the facility. In particular, provide an explanation of how the proposed project will affect the operations and actual emissions of the facility as a whole. If a post-construction air operation permit is being applied for and if any of the emissions units addressed in this application, as built or proposed to be operated, differs from the design or method of operation proposed in the construction permit application, provide a detailed description of the alterations made or operating changes proposed, and update any previously submitted information as may be necessary. Alterations and proposed operating changes need be reported only if, and to the extent that, they constitute a deviation from information on record with the Department. Attach additional information as necessary.
2. **Projected or Actual Date of Commencement of Construction** - For a construction permit application, enter the date on which construction is projected to commence on the proposed new or modified emissions unit(s). For a post-construction operation permit application, enter the date on which construction commenced on the newly constructed or modified emissions unit(s).
3. **Projected Dates of Completion of Construction** - For a construction permit application, enter an estimate of the expected latest date of the completion of construction to provide the Department with a basis for specifying the expiration date of the construction permit.

Application Comment

Enter, in the space provided, any comment about this application or about the information given in this section of the Application for Air Permit form.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. **Facility UTM Coordinates** - Enter the Universal Transverse Mercator (UTM) coordinates of the approximate center of the points of air pollutant emissions at the facility as below. See also the instructions and note for Field 2.

Zone - Enter a UTM zone value of 16 if the facility is west of 84° longitude; enter a zone value of 17 if the facility is east of 84° longitude. (84° longitude passes through Jefferson County.)

East - Enter the UTM easting coordinate to at least the nearest tenth of a kilometer for the approximate center of the points of air pollutant emissions at the facility (e.g., 310.1).

North - Enter the UTM northing coordinate to at least the nearest tenth of a kilometer for the approximate center of the points of air pollutant emissions at the facility (e.g., 3354.7).

Note: UTM coordinates may be accurately determined from a United States Geologic Survey (USGS) 1:24,000-scale topographic map.

2. **Facility Latitude/Longitude** - Enter the latitude and longitude of the approximate center of the points of air pollutant emissions at the facility, to the nearest second.

Note: It is not necessary to complete both Fields 1 and 2. Enter only the coordinates (UTM or Lat./Long.) that are most accurately known.

3. **Governmental Facility Code** - If the owner or operator of the facility addressed in this application is a unit of government, enter, from the list below, the code for such unit of government. If the owner or operator is not a unit of government, enter "0."

<u>Code</u>	<u>Unit of Government</u>
0	None (non-governmental facility)
1	Federal
2	State
3	County
4	Municipality

4. **Facility Status Code** - Enter, from the list below, the facility status code that would be valid as of issuance of this permit:

<u>Code</u>	<u>Status</u>
A	Active - One or more emissions units in operation, on standby status, temporarily shut down (including any shutdown while undergoing modification), or on long-term reserve shutdown. This code indicates an existing facility which has not been permanently shut down, though it may not be operating at the time of, or immediately subsequent to, permit issuance.
C	Construction - All emissions units in planning stage or undergoing initial construction, including reconstruction. This code indicates a proposed new facility, or an existing facility which has been or will be shut down in its entirety for reconstruction.

5. **Facility Major Group SIC Code** - Enter the two-digit Major Group Standard Industrial Classification (SIC) code as listed in Appendix A that corresponds to the primary economic activity of the facility. In most cases, all emissions units at a facility will directly or

indirectly support a single economic activity as represented by a Major Group SIC code. It is possible, however, for a facility to be engaged in more than one Major Group activity. In such case, the primary Major Group should be entered in this field, and any secondary Major Groups should be entered at the emissions unit level. Additional information on the SIC system is available in the 1987 Standard Industrial Classification Manual published by the U.S. Office of Management and Budget.

Note: If the facility is engaged in separate and distinct economic activities falling within two or more Major Group SIC codes, it may be necessary to consider the emissions units comprising each Major Group separately in determining the regulatory requirements applicable to the facility.

6. **Facility SIC(s)** - If known, enter up to three four-digit Standard Industrial Classification (SIC) codes to more precisely describe the economic activities of the facility. Four-digit SIC codes are listed in the 1987 Standard Industrial Classification Manual published by the U.S. Office of Management and Budget. If no four-digit code is known, leave blank.
7. **Facility Comment** - Enter any comments about the facility addressed in this application.

Facility Contact

1. **Name and Title of Facility Contact** - Enter the name and title of the person to be contacted regarding day-to-day operations of the air pollutant emissions units at the facility. This is typically, but not necessarily, a person stationed at or in close proximity to the facility such as the plant manager or environmental coordinator. This is the person the Department will contact for access to the facility to conduct compliance inspections or stack tests.
2. **Facility Contact Mailing Address** - Enter the complete mailing address of the facility contact person named in Field 1.
3. **Facility Contact Telephone Numbers** - Enter the telephone number and FAX number, if available, of the facility contact person.

Facility Regulatory Classifications

1. **Small Business Stationary Source?** - Check if the facility addressed in this application would qualify for the Department's small business stationary source technical and environmental compliance assistance program under section 403.0852, Florida Statutes. If the answer is unknown, check "Unknown."
2. **Synthetic Non-Title V Source?** - Check if the facility addressed in this application would be classified as a non-Title V source by virtue of a federally enforceable restriction, assumed by the applicant, on hours of operation or on the type or amount of material combusted, stored, or processed. If checked, briefly describe in Field 7, Facility Regulatory Classifications Comment, the nature of the restriction.

Note: In order for a facility to be classified as a synthetic non-Title V source, it must be either a synthetic minor source of regulated air pollutants other than HAPs (Field 3) or a synthetic minor source of HAPs (Field 4). If this field is checked, one or both of Fields 3 and 4 must also be checked.

3. **Synthetic Minor Source of Pollutants Other than HAPs?** - Check if the facility addressed in this application would be classified as a minor source of regulated air pollutants other than HAPs by virtue of a federally enforceable restriction, assumed by the applicant, on hours of operation or on the type or amount of material combusted, stored, or processed. If checked, enter the DEP permit number and issue date, if known, of the air construction permit or FESOP containing the restriction and briefly describe in Field 7, Facility Regulatory Classifications Comment, the nature of the restriction. No check indicates that the facility is either a true minor or a non-emitting source of such pollutants.
4. **Synthetic Minor Source of HAPs?** - Check if the facility addressed in this application would be classified as a minor source of HAPs by virtue of a federally enforceable restriction, assumed by the applicant, on hours of operation or on the type or amount of material combusted, stored, or processed. If checked, enter the DEP permit number and issue date, if known, of the air construction permit or FESOP containing the restriction and briefly describe in Field 7, Facility Regulatory Classifications Comment, the nature of the restriction. No check indicates that the facility is either a true minor or a non-emitting source of HAPs.
5. **One or More Emissions Units Subject to NSPS?** - Check if the facility addressed in this application has one or more emissions units subject to a standard promulgated by the EPA under section 111(b) of the Clean Air Act (Standards of Performance for New Stationary Sources (NSPS)).
6. **One or More Emissions Units Subject to NESHAP Recordkeeping or Reporting?** - Check if the facility addressed in this application has one or more emissions units subject to only a recordkeeping or reporting requirement promulgated by the EPA under section 112(d) of the Clean Air Act (National Emission Standards for Hazardous Air Pollutants (NESHAP)).

Note: If a facility has one or more emissions units subject to a NESHAP standard involving more than just recordkeeping or reporting, the facility is a Title V source and must obtain a Title V air operation permit.
7. **Facility Regulatory Classifications Comment** - Enter any comments about the regulatory classifications of the facility addressed in this application, particularly as required to explain any synthetic restrictions.

Rule Applicability Analysis

For a construction permit application, complete this part of the form by providing a brief, narrative analysis of the rules applicable to the facility as a whole and to each proposed new or modified emissions unit addressed in the application. The rule applicability analysis should cite the section(s) of Chapter 62-212, F.A.C., "Stationary Sources - Preconstruction Review," applicable to each affected pollutant. The intent of this discussion is to ensure that the applicant understands and has properly addressed the major rules to which the project is subject. Attach additional information as necessary.

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. **Pollutant Emitted** - Enter, in this column, the identification code as listed in Appendix D of each pollutant the facility emits, has the potential to emit, or, after any proposed construction or modification, would emit or have the potential to emit in a major amount; each pollutant for which the facility's emissions are, or would be, synthetically limited to less than a major amount; and each pollutant which is, or would be, subject to an emissions limitation or work practice standard at one or more emissions units within the facility. If a code is not listed for the pollutant, enter a narrative description of the pollutant. Major source thresholds are as follows:

- a. 100 tons per year for CO, NOx, PM10, SO2, and VOC;
- b. 5 tons per year for Pb and Pb compounds expressed as lead;
- c. 10 tons per year for any HAP (H001 through H189);
- d. 25 tons per year for HAPS (total HAPs, all species); and
- e. 100 tons per year for any other regulated pollutant.

Regulated pollutant, for purposes of this entry, means any pollutant to which an emissions limitation or work practice standard applies at one or more emissions units within the facility under any applicable requirement or pursuant to the facility's most recent air permit.

2: **Pollutant Classification** - Enter, in this column, the pollutant classification code from the list below for each pollutant identified in Column 1.

<u>Code</u>	<u>Description</u>
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A	Major pollutant
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SM	Synthetic minor pollutant
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B	Regulated pollutant, not major or synthetic minor
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3. **Requested Emissions Cap** - Fields 3-5 must be completed only for those pollutants for which the applicant proposes to establish a multi-unit or facility-wide emissions cap. Enter the rate of emissions of the pollutant, in pounds per hour, tons per year, or both, that the group of units or facility would be limited to as a specific condition of its permit. A multi-unit or facility-wide emissions cap occurs only when the group of emissions units or the facility as a whole is limited to an amount of emissions less than the sum of the potential emissions of the individual emissions units. For example, if two emissions units are each permitted to operate 8760 hour per year, but together are limited to 12,000 total hours of operation, the result is an emissions cap. Do not request, as a multi-unit or facility-wide emissions cap, any restriction on potential emissions that results directly from restrictions placed on the potential emissions of individual emissions units. Use Field 5, Pollutant Comment, to list the ID numbers of all emissions units included in a multi-unit emissions cap.

4. **Basis for Emissions Cap** - Enter from the list below the code which corresponds to the basis for the emissions cap requested for this pollutant. Use Field 5, Pollutant Comment, to further explain any entry made.

<u>Code</u>	<u>Basis for Emissions Cap</u>
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RULE	Emissions cap required by rule (Specify rule in comment field)
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ESCTIII	Requested by applicant to allow facility to escape classification as a major source of hazardous air pollutants
ESCPSD	Requested by applicant to allow facility or modification to escape prevention of significant deterioration (PSD) preconstruction review
ESCNAA	Requested by applicant to allow facility or modification to escape nonattainment area (NAA) preconstruction review
ESCMACT	Requested by applicant to allow facility or modification to escape maximum achievable control technology (MAC) requirements
ESCRACT	Requested by applicant to allow facility to escape reasonably available control technology (RACT) requirements
AMBIENT	Requested by applicant to reduce impact of facility on ambient concentrations (Explain further in comment field)
BUBBLE	Requested by applicant pursuant to the "bubble" rule.
OTHER	Requested by applicant for other reasons (Explain in comment field)

5. **Pollutant Comment** - Enter any comments about the pollutant addressed in this set of Fields 3-5. If a multi-unit emissions cap is requested, list the ID numbers of all emissions units included in the cap. In addition, provide any explanation needed to further understand the basis for the emissions cap. For example, if the emissions cap is the result of emissions trading among two or more emissions units, identify the emissions units involved and explain how the trading is implemented

C. FACILITY SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the facility as a whole. (Supplemental information related to individual emissions units within the facility is provided in Subsection III-G of the form.) Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form. Entry of a "Document ID" for each attachment will aid the Department in determining the completeness of the application. Electronic submission of supplemental information is encouraged. Applicants should contact the Department regarding acceptable formats for word processing, spreadsheet, and graphic files.

All supplemental information required pursuant to this subsection of the Application for Air Permit must be submitted to the Department along with the form in order for the application to be considered complete. If any item of supplemental information requested in this subsection has been submitted to the Department within the previous five years and would not be altered as a result of this permit application, it need not be resubmitted. Conversely, any item of information in the Department's files that is greater than five years old must be submitted unless the requirement to do so is waived by the Department at the applicant's request.

Supplemental Requirements

1. **Area Map Showing Facility Location** - Provide a scale map (e.g., the relevant portion of a USGS topographic or other commercially available map) showing the location of the facility and points of air pollutant emissions in relation to residences, roads, and other features of the surrounding area.
2. **Facility Plot Plan** - Provide a plot plan of the facility showing the location of existing and proposed manufacturing processes, control equipment, stacks, vents, identifiable sources of fugitive emissions and principal buildings. If this application is being submitted to obtain an air construction permit for a proposed new emissions unit at the facility, the plot plan should be drawn to scale, show the precise location of the new emissions unit and its emission point(s), include at least one UTM or latitude/longitude reference coordinate point and compass direction, and provide dimensions, including height, of any buildings or structures that may affect dispersion of pollutants from the new emissions unit.

Note: While a scale plot plan showing building dimensions is not required for air operation permit applications, the Department reserves the right to request such information from permittees on an as-needed basis. For example, building dimensions may be needed for air quality modeling studies performed by the Department in support of rulemaking activities and by other applicants in the area of the facility in support of their air construction permit applications.

3. **Process Flow Diagram(s)** - Provide a general process flow diagram or set of diagrams showing any proposed new or modified emissions units and all existing emissions units at the facility. Indicate the operating rate of each emissions unit, and identify the pathways by which raw materials and products flow from unit to unit.
4. **Precautions to Prevent Emissions of Unconfined Particulate Matter** - Identify any unconfined particulate matter emissions that may result from construction, modification, or operation of the facility and describe the precautions that will be taken to prevent or control such emissions. For purposes of this requirement, it is not necessary to quantify such emissions. Examples of reasonable precautions to control unconfined emissions of particulate matter are listed at Rule 62-296.320(4), F.A.C.
5. **Supplemental Information for Construction Permit Application** - For an air construction permit application, provide any additional information related to the facility that is required under the applicable provisions of Chapter 62-212, F.A.C., "Stationary Sources - Preconstruction Review." Examples of such information are documentation of contemporaneous emissions changes and air quality modeling results (input/output). Additional information related to each emissions unit covered by this construction permit application is requested in Subsection III-H of the form.
6. **Supplemental Requirements Comment** - Enter, in the space provided, any comment about the supplemental requirements addressed in this section of the Application for Air Permit form, particularly as required to justify the requested waiver of any item of supplemental information.

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

Note: An Emissions Unit Information Section may address, as an emissions unit, a single process/production unit or activity; a group of collectively-regulated process/production units or activities; or one or more process/production units or activities having fugitive emissions only. The most appropriate breakdown of process and production operations, and other pollutant-emitting activities, at a facility into separate emissions units is determined through the permitting process and, once established, should be adhered to in completing subsequent air permit applications and any required reports such as periodic compliance reports and annual operating reports. For existing, permitted facilities, the Department will have already defined and assigned emissions unit identification numbers to emissions units within the facility. Any questions regarding the manner in which emissions units have been defined by the Department, or any proposed changes in such, should be discussed with the appropriate permitting office prior to submittal of any air permit application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

1. **Type of Emissions Unit Addressed in This Section** - Check whether the emissions unit addressed in this Emissions Unit Information Section represents a single process/production unit or activity, a group of process/production units and activities, or a process/production unit or activity (or group of such units or activities) which produces fugitive emissions only.
2. **Description of Emissions Unit Addressed in This Section** - Provide a brief description of the emissions unit addressed in this Emissions Unit Information Section. Include any unit designations and other information helpful in describing the emissions unit and differentiating it from the other emissions units at the facility. Example descriptions are:

Type 1 - Single process/production unit or activity:

- Wet-process cement kiln
- Power boiler No. 1
- Unit No. 2 - Multiple-chamber incinerator
- No. 3 double-contact sulfuric acid plant

Type 2 - Collectively-regulated group of process/production units or activities:

- Distillate/gas fired combustion turbine units 1-5; each 10 MW
- Gasoline storage tanks A, B, and C; each 250,000 barrels, floating-roof

Type 3 - One or more process/production units or activities with fugitive emissions only

- Fugitive particulate emissions from coal pile
- Fugitive VOC emissions from equipment leaks throughout facility

3. **Emissions Unit Identification Number** - If known, enter the three-digit emissions unit identification number assigned by the Department to the emissions unit addressed in this Emissions Unit Information Section. If it is known that the emissions unit addressed in this section does not correspond to an emissions unit currently identified in ARMS, check "No ID." This entry is appropriate if the emissions unit corresponds to a previously unpermitted emissions unit (e.g., a proposed new emissions unit) or if the emissions unit represents a proposed reconfiguration of the manner in which emissions units are currently defined by the Department (i.e., a "lumping" or "splitting" of currently defined emissions units). If the emissions unit identification number used by the Department is unknown, check "ID Unknown."

DEP Note: If this application is being submitted to obtain an air construction permit for a proposed new or reconstructed emissions unit, select a currently unused emissions unit identification number. Do not delete from the system any emissions unit which has been permanently shut down or is proposed to be reconstructed. Instead, give each such emissions unit an "I" status (inactive). The same procedure applies in the case of a reconfiguration of currently defined emissions units.

4. **Emissions Unit Status Code** - Enter, from the list below, the emissions unit status code that would be valid as of issuance of this permit:

<u>Code</u>	<u>Status</u>
A	Active - Emissions unit in operation, on standby status, temporarily shut down (including any shutdown while undergoing modification), or on long-term reserve shutdown. This code indicates an existing emissions unit which has not been permanently shut down, though it may be not be operating at the time of, or immediately subsequent to, permit issuance.
C	Construction - Emissions unit in planning stage or undergoing initial construction, including reconstruction. This code indicates a proposed new emissions unit, or an existing emissions unit which has been or will be shut down in its entirety for reconstruction.

5. **Initial Startup Date** - If this application is submitted to obtain a post-construction air operation permit or permit revision for a newly constructed or reconstructed emissions unit, enter the date that the emissions unit began or is expected to begin its initial operation. Do not enter, as a startup date, the date on which an active emissions unit resumed operations following a temporary or long-term reserve shutdown period.

6. **Emissions Unit Major Group SIC Code** - Enter the two-digit Major Group Standard Industrial Classification (SIC) code as listed in Appendix A that corresponds to the economic activity of the facility to which this emissions unit provides direct or indirect support. In most cases, the Major Group SIC code for the emissions unit will be the same as the primary Major Group SIC code for the facility. It is possible, however, for a facility to be engaged in more than one Major Group economic activity. In such case, it may be necessary to enter a secondary Major Group SIC code in this field.

Note: If the facility is engaged in separate and distinct economic activities falling within two or more Major Group SIC codes, it may be necessary to consider the emissions units comprising each Major Group separately in determining the regulatory requirements applicable to the facility.

7. **Emissions Unit Comment** - Enter any comments about the emissions unit addressed in this Emissions Unit Information Section.

Emissions Unit Control Equipment

1. **Control Equipment/Method Description** - Enter a brief description of each emission control device or method associated with the emissions unit addressed in this Emissions Unit Information Section (e.g., centrifugal wet scrubber, type N roto-clone, etc.). Only control devices and methods installed for the express purpose of reducing the uncontrolled emissions associated with the emissions unit should be reported. Control methods installed for reasons other than emission control (e.g., low NO_x burners installed to improve combustion efficiency) need not be reported unless a control efficiency is known or can be calculated. Also, do not report equipment that is a normal part of the emissions unit, even though a quantity of some pollutant emission may be reduced as a result of it.
2. **Control Device or Method Code** - Enter the appropriate code, as listed in Appendix B, for each of the air pollution control devices or methods described in Field 1. If none of the equipment or method codes appear to be applicable, choose the code that most nearly resembles the actual device or method.

Emissions Unit Details

1. **Manufacturer and Model Number of Package Unit** - If the emissions unit addressed in this Emissions Unit Information Section is a package unit (e.g., a small package boiler, combustion turbine, incinerator, crematory, soil burner, spray booth, degreaser, etc.) enter the name of the manufacturer and the model number of the package unit.
2. **Generator Nameplate Rating** - If the emissions unit powers an electrical generator, enter the nameplate rating of the generator in megawatts (MW) to the nearest whole MW.
3. **Incinerator Information** - If the emissions unit is an incinerator, enter the following information to better describe the incinerator:
 - Dwell Temperature - Enter the normal dwell temperature in degrees Fahrenheit.
 - Dwell Time - Enter the normal dwell time in seconds.
 - Afterburner Temperature - If the incinerator is equipped with an afterburner, enter the normal operating temperature of the afterburner.

Emissions Unit Operating Capacity and Schedule

The usual purpose of the operating capacity information requested in this portion of the form is to establish the required operating rate of an emissions unit at the time of emission testing. If the potential emissions of the emissions unit would increase as the result of any physical or operational increase in the unit's capacity, the information provided in this portion of the form may also be used to establish a permit limitation. If the operating capacity cannot be expressed in terms of one or more of the parameters given in this subsection, use the comment field to address the operating capacity of the emissions unit. Also use the comment field to identify any variations in capacity that may be associated with alternative methods of operating the emissions unit. For example, if the emissions unit uses multiple fuels where the maximum heat input rate varies with the choice of fuel, indicate in the comment field the fuel which corresponds to the

heat input rate given in Field I, and list the additional fuel-type/heat-input rate relationships that apply to the unit.

1. **Maximum Heat Input Rate** - If the emissions unit is a combustion unit, enter the maximum heat input rate of which the unit is capable, in million Btu's per hour. If this application involves a proposed new unit, enter design data.
2. **Maximum Incineration Rate** - If the emissions unit is an incinerator, enter the maximum capacity of the incinerator in pounds per hour and tons per day. If this application involves a proposed new incinerator, enter design data.
3. **Maximum Process or Throughput Rate** - If the operating rate of the emissions unit is ordinarily expressed in terms of a process or throughput rate, enter the maximum process rate of which the emissions unit is capable, including a description of the units of measurement. If this application involves a proposed new emissions unit, enter design data.
4. **Maximum Production Rate** - If the operating rate of the emissions unit is ordinarily expressed in terms of a production rate, enter the maximum production rate of which the unit is capable, including a description of the units implied. (For sulfuric and phosphoric acid plants, enter the production rate in terms of 100% H₂SO₄ and 100% P₂O₅, respectively.) If this application involves a proposed new emissions unit, enter design data.
5. **Requested Maximum Operating Schedule** - Enter the requested maximum hours per day, days per week, weeks per year, and/or hours per year that the emissions unit be allowed to operate as a condition of its permit.
6. **Operating Capacity/Schedule Comment** - Enter any comments about the operating capacity or requested operating schedule of the emissions unit addressed in this Emissions Unit Information Section.

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. **Identification of Point on Plot Plan or Flow Diagram** - An emission point is a stack, vent, or other identifiable location at which air pollutants are discharged into the atmosphere. Enter the identification number or symbol for the emission point associated with the emissions unit addressed in this Emissions Unit Information Section, as shown on the facility plot plan or flow diagram. If the emissions unit has multiple emission points (e.g., a group of volatile organic liquid storage tanks or bank of combustion turbines), enter the identification numbers or symbols for all of the emission points serving the emissions unit. If the emissions unit represents diffuse fugitive emissions, describe the general area(s) from which the fugitive emissions arise.
2. **Emission Point Type Code** - The emissions unit addressed in this Emissions Unit Information Section may have a single emission point, share an emission point with one or more other emissions units, have multiple emission points, or have no true emission point (e.g., an emissions unit with fugitive emissions only). Enter, from the list below, the type of emission point associated with the emissions unit.

<u>Code</u>	<u>Description of Emission Point</u>
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- 1 A single emission point serving a single emissions unit (e.g., a single stack serving a single boiler). The emission point is not shared with another emissions unit, nor does the emissions unit have other emission points.
- 2 An emission point serving two or more emissions units capable of simultaneous operation (e.g., a single stack serving two boilers).
- 3 A configuration of multiple emission points serving a single emissions unit (e.g., a series of building vents serving a single enclosed process operation, a group of exhaust stacks serving a collectively-regulated bank of combustion turbines, or a collection of roof vents serving a collectively-regulated group of volatile organic liquid storage tanks).
- 4 No true emission point (e.g., fugitive emissions from a coal pile or equipment leaks)

Note: If the emission point is of Type 3, it is necessary to complete Fields 5-13 of this subsection of the form for a single emission point that is "representative" of the multiple emission points serving the emissions unit. The first choice of a representative emission point is the point having the greatest emission rate. Use Field 14, Emission Point Comment, to explain the choice of emission point reported.

3. **Description of Emission Points Comprising this Emissions Unit for VE Tracking** - If the emissions unit addressed in this section has multiple emission points (Emission Point Type 3), and if the emissions unit is subject to any visible emissions (VE) limitations, enter a brief description of each emission point comprising this emissions unit at which VE observations may be made. This will enable the Department to associate VE tests with specific emission points, while otherwise treating the emissions unit as a single entity for regulatory purposes.
4. **ID Numbers or Descriptions of Emissions Units with this Emission Point in Common** - If the emissions unit addressed in this section shares an emission point with one or more emissions units addressed in separate Emissions Unit Information Sections (Emission Point Type 2), list the emissions unit identification numbers, if known, or provide descriptions of all emissions units having an emissions point in common with the emissions unit addressed in this section.

Note: The stack parameters (Fields 5-13) shown in the Emissions Unit Information Sections for all emissions units having a common stack must be identical.

5. **Discharge Type Code** - Enter the code for the type of discharge, as defined below, which characterizes this emission point.

<u>Code</u>	<u>Description of Discharge</u>
D	A stack discharging downward, or nearly downward.
F	Fugitive emissions; no stack exists.
H	A stack discharging in a horizontal, or nearly horizontal direction.
P	A process vent, not otherwise classified.
R	A building roof or wall vent.

V A stack with an unobstructed opening discharging in a vertical, or nearly vertical direction.

W A vertical stack with a weather cap or similar obstruction in the exhaust stream.

6. **Stack Height** - If the emission point is a "traditional" stack (i.e., a stack of discharge type "V"), enter the vertical distance between ground level and the point of emission, to the nearest foot. If the emission point is not a traditional stack; e.g., fugitive emissions or any discharge type other than "V," leave blank Fields 6, 7, 9, 10, and 11 and complete Fields 8, 12, and 13.
7. **Exit Diameter** - If the stack is round, enter the inside diameter of the stack at the point of emission. If the stack exit is rectangular or otherwise not round, enter the equivalent diameter, $D_e = (1.128) \times (\text{square root of } A)$, where A is the measured or calculated cross-sectional area of the stack exit in square feet. The diameter is to be entered to the nearest tenth of a foot.
8. **Exit Temperature** - Enter in degrees Fahrenheit, to the nearest 10 °F, the temperature of the exhaust gas stream at the point of emission under normal emissions unit operating conditions. If measured temperatures are not available or vary widely, enter an estimate based on engineering principles. If multiple fuels are involved, enter the temperature corresponding to combustion of the most commonly used fuel. If no fuel combustion is involved in the process and the exhaust gas appears to be discharged at ambient air temperatures, enter a temperature of 77 °F. If a nonstack emission height is entered in Field 12, enter a value of 77 °F for emissions units without combustion and an estimate of the actual temperature for emissions units with combustion.
9. **Actual Volumetric Flow Rate** - Enter the actual exhaust gas flow rate corresponding to the temperature and water vapor content of the exhaust gas stream while the emissions unit is operating under normal conditions. Assume that the gas pressure is equal to the standard atmospheric pressure. The entry is to be recorded in actual cubic feet per minute to the nearest 100 acfm. If measured flow rates are not available or vary widely, enter an estimate based on engineering principles. If multiple fuels are involved, enter the flow rate corresponding to combustion of the most commonly used fuel.
10. **Percent Water Vapor** - If the emission unit is regulated under a grain loading standard (gr/dscf) or is associated with a control device whose performance is expressed in terms of such units, enter to the nearest whole percent the water vapor content in the exhaust gas stream at the point of emission under normal emissions unit operating conditions.
11. **Maximum Dry Standard Flow Rate** - If the emission unit is regulated under a grain loading standard (gr/dscf) or is associated with a control device whose performance is expressed in terms of such units, enter the calculated dry standard exhaust gas flow rate at standard temperature (68 °F) and pressure. The entry is to be recorded in cubic feet per minute to the nearest 100 dscfm.

Note: For batch and intermittently operated emissions units, the data in Fields 9 and 11 should correspond to conditions occurring while the emissions unit is operating at its maximum rate, even if such rate would not be sustained for more than a few minutes.

12. **Nonstack Emission Point Height** - Enter the emission height, as described below, if the emission point is not a traditional stack and Fields 6, 7, 9, 10, and 11 have been left blank. If stack height, exit diameter, and actual volumetric flow rate are reported, leave blank.

Note: This field must be completed for all discharge types other than type "V." If there is a physically definable height above ground level where the pollutants are emitted, enter this value (in feet). Examples of this case are liquid storage tanks and uncontrolled grain-drying operations where the height of the tank or dryer would be considered the emission height. On the other hand, some emissions units, such as a semi-enclosed manufacturing building or a materials storage pile, have no discernible emission height. In such cases, enter zero in this field. Processes that emit pollutants at ambient temperatures, mainly through ground-level leakage or diffusion, should also be considered to have a zero emission height. Ground-level emissions which are coded zero emission height should nevertheless have an appropriate temperature entered in Field 8.

13. **Point UTM Coordinates** - If UTM coordinates for the emission point associated with the emissions unit addressed in this Emissions Unit Information Section are available, enter them to at least the nearest 0.01 kilometer.

Note: This is an optional field and may be left blank.

14. **Emission Point Comment** - Enter any comments about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section.

C. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported. Indicate, in the space provided for each set of Fields 1-10, the number of this set of segment data and the total number of segment data sets submitted for this emissions unit.

The purpose of this section of the form is to provide information on the raw materials, processes, fuels, stored volatile organic liquids (VOLs), products and other activities associated with the emissions unit addressed in this section in a format consistent with the EPA Source Classification Code (SCC) system. The SCC system is a method of encoding the raw material input, process, fuel usage, VOL storage, production, and other operating rates or activity factors needed to compute pollutant emission rates using the EPA publication, "Compilation of Air Pollutant Emission Factors (AP-42)," and other similar references. In the EPA Aerometric Information Retrieval System (AIRS), each such raw material input, process throughput, fuel consumption, VOL storage, production, or other measure of operation is referred to as a "segment." Therefore, in this section of the form, information must be provided for each segment (i.e., each material handling, process, fuel burning, VOL storage, production, or other such operation) to which the emissions of the emissions unit are directly related. If the emissions unit addressed in this section represents facility-wide fugitive emissions or other such emissions, information on each segment to which the fugitive or other emissions of the facility are related must be provided. Source Classification Codes and emission factor listings are found in the Factor Information Retrieval (FIRE) system available through the EPA Technology Transfer Network (TTN) website: www.epa.gov/ttn/chief/software.html.

Note: It is critical that the emissions unit be properly classified in terms of its segment operations and SCCs. Retrievals from ARMS, emission estimates, and annual operating reports

are keyed to the SCC system. Therefore, if you have any questions regarding the completion of these fields, please contact the DEP or local program office to which the application will be submitted for assistance.

Segment Description and Rate

1. **Segment Description** - Enter a description of the segment (i.e., the material handling, process, fuel usage, VOL storage, production, or other operation) that is addressed on this Segment Information page. Use description breakdowns consistent with those used in the EPA SCC system, if known. Examples are:

For cement kiln:

Cement production (emissions related to tons cement produced)

Coal burned in kiln as in-process fuel (emissions related to tons burned)

For boiler using two fuels (alternatively or simultaneously):

No. 6 oil used in boiler (emissions related to thousand gallons burned)

Natural gas used in boiler (emissions related to million cubic feet burned)

For organic chemical storage tank:

Breathing loss (emissions related to thousand gallons storage capacity)

Working loss (emissions related to thousand gallons throughput)

For source representing facility-wide fugitive emissions from surface mining:

Hauling (emissions related to vehicle-miles traveled by haul trucks)

Wind erosion (emissions related to acres of exposed area)

Note: Entry of at least one segment is required for each emissions unit. In some cases, it will be necessary to enter more than one segment description. For example, if a boiler burns both natural gas and distillate fuel oil, the data appropriate for each should be entered in separate segment data sets.

2. **Source Classification Code** - If known, enter the SCC number corresponding to the segment identified in Field 1. The list of SCC codes is available through the EPA Technology Transfer Network. If the most appropriate SCC description appears to be significantly different from the actual process, use the most appropriate existing code ending in 999/99 or 99 and include a brief description of the process in Field 10, Segment Comment.

DEP Note: Entry of at least one SCC is required for each emissions unit. Do not invent SCC codes. If there is need for the creation of a new SCC to specifically describe the process, a request should be submitted to the EPA through the Division of Air Resources Management.

3. **SCC Units for Fields 4-6** - Enter the applicable units from Appendix C for the maximum hourly rate (Field 4), the maximum annual rate (Field 5), and the estimated annual activity factor (Field 6) for the segment identified in Field 1. All such fields used must be expressed in the same units, and the units must correspond to those used in the SCC system. Required units for the most common segments are given in Appendix C. If the segment rates or activity factor cannot be expressed in terms of one of the specific units given in Appendix C, the correct units to use may be obtained from the EPA documentation.

4. **Maximum Hourly Rate** - Enter, in terms of the units defined in Field 3, the maximum hourly rate for the segment identified in Field 1. This should be the higher of the maximum rate actually achieved or the rate at design capacity. For boilers, a maximum hourly fuel usage rate may be calculated by dividing the maximum capacity (million Btu/hour) by the fuel heat value (million Btu/fuel unit).
Note: For segments where the units are time-independent, such as petroleum storage tanks with units in terms of capacity, the maximum hourly rate does not apply. For other emissions unit types, such as storage piles or facility-wide fugitive emissions, a maximum hourly rate cannot be defined. In cases where a maximum hourly rate does not apply, enter zero in this field and complete Field 6.
5. **Maximum Annual Rate** - Enter, in terms of the units defined in Field 3, the maximum annual rate for the segment identified in Field 1. This should be the higher of the maximum rate actually achieved or the rate at design capacity.
Note: For segments where the units are time-independent, such as petroleum storage tanks with units in terms of capacity, the maximum annual rate does not apply. For other emissions unit types, such as storage piles or facility-wide fugitive emissions, a maximum annual rate cannot be defined. In cases where a maximum annual rate does not apply, enter zero in this field and complete Field 6.
6. **Estimated Annual Activity Factor** - Enter, in terms of the units defined in Field 3, the estimated annual activity factor for the segment identified in Field 1. This field should be completed only when the maximum hourly and annual rates in Fields 4 and 5 do not apply. It is in this field that activity factors to which fugitive emissions are related are reported. For example, storage tank capacity (to which breathing losses are related) or vehicle-miles traveled (to which road dust emissions are related) would be reported in this field.
7. **Maximum Percent Sulfur** - If the segment identified in Field 1 relates to combustion of coal, oil, process gas, or LPG, enter on a weight-percent basis the expected maximum fuel sulfur content, to the nearest 0.1 percent.
8. **Maximum Percent Ash** - If the segment identified in Field 1 relates to combustion of coal, enter on a weight-percent basis the expected maximum fuel ash content, to the nearest 0.1 percent.
9. **Million Btu per SCC Unit** - If the segment identified in Field 1 relates to combustion of any fuel, enter the expected as-fired heat value of the fuel in million Btu's per ton (solid fuels), per thousand gallons (liquid fuels), or per million cubic feet (gaseous fuels). The fuel quantity unit should correspond to the units defined in Field 3.
10. **Segment Comment** - Enter any comments about the segment addressed on this Segment Information page, especially as described in the instructions for Fields 1 and 2.

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of Pollutant Detail Information fields must be completed for each emissions-limited pollutant and, in the case of an air construction permit application, each pollutant for which potential emissions must be calculated for purposes of preconstruction review. On the hard-copy version of the Application for Air Permit, each set of Pollutant Detail Information is printed on a single page with Potential Emissions (Fields 1-11) on the upper half of the page and Allowable Emissions (Fields 1-6, repeatable) on the lower half of the same page. Though not literally applicable to electronically submitted application forms, the term "Pollutant Detail Information page" is used in these instructions to refer to a single set of pollutant detail information (i.e., both Potential Emissions and Allowable Emissions where required). Indicate, in the space provided on each page, the number of this Pollutant Detail Information page and the total number of Pollutant Detail Information pages reported for this emissions unit.

Potential Emissions

1. **Pollutant Emitted** - Enter the identification code, as listed in Appendix D, of each pollutant the emissions unit addressed in this Emissions Unit Information Section would emit or have the potential to emit in an amount equal to or greater than a threshold amount, as set forth below, and each "emissions-limited" pollutant which would be emitted from this emissions unit, even if in less than a threshold amount. If a code is not listed for the pollutant, enter a narrative description of the pollutant. Emissions thresholds are as follows:

5.0 tons per year for CO, NOx, PM, PM10, SO2, and VOC;

500 pounds per year for Pb and Pb compounds expressed as lead;

1,000 pounds per year for each HAP (H001 through H189), where the facility would be major for such HAP but for a limitation on emissions being requested for the first time by the applicant;

2,500 pounds per year for HAPS (total HAPs, all species), where the facility would be major for HAPS but for a limitation on emissions being requested for the first time by the applicant.

Emissions-Limited Pollutant - An emissions-limited pollutant, for purposes of this portion of the application form, is any pollutant which is subject to a numerical emissions limiting standard for the emissions unit addressed in this section of the application, either individually or in combination with other emissions units at the facility (e.g., a "bubble" or "cap"). The term includes any emissions limitation that would be assumed by the applicant, or any limitation on potential-to-emit created by a limitation on process rate or hours of operation assumed by the applicant. It does not include pollutants regulated only by a work practice standard or visible emissions standard.

Note: In the case of an air construction permit application, enter the identification code for each pollutant for which potential emissions must be calculated for purposes of the preconstruction review requirements of Chapter 62-212, F.A.C., even if the pollutant would be emitted in less than a threshold amount and would not be an emissions-limited pollutant.

2. **Pollutant Regulatory Code** - Enter the pollutant regulatory code from the list below for each pollutant identified in Field 1.

<u>Code</u>	<u>Description</u>
-------------	--------------------

- EL Emissions-limited pollutant
- WP Pollutant regulated under work practice standard only
- NS Pollutant not emissions-limited nor subject to any work practice standard

3. **Primary Control Device Code** - Enter the appropriate code, as listed in Appendix B, for the primary air pollution control device or method responsible for reducing emissions of the pollutant listed in Field 1. See also the instructions for Field 4.
4. **Secondary Control Device Code** - Enter the appropriate code, as listed in Appendix B, for any secondary air pollution control equipment. Secondary control equipment is a device or method following, in series, another device or method designed to remove the same pollutant. For example, a settling chamber (or gravity collector) for removing large particles is often followed by an electrostatic precipitator. The precipitator should be reported as secondary control equipment. In certain cases, a device installed primarily for removal of one pollutant may also remove another pollutant. For example, sulfur dioxide absorbed by particulate matter may be removed via a bag collector. In this case, the code for the baghouse would be entered as primary control equipment for the pollutant it is intended to remove (particulate matter) and as secondary control equipment for the pollutant which it incidentally removes (sulfur dioxide). If there is no equipment for primary removal of sulfur dioxide, a zero would be entered in the primary control field for sulfur dioxide. If, for a particular pollutant, no control equipment is used, leave both fields blank.
5. **Total Percent Efficiency of Control** - If a control efficiency is assumed in the calculation of potential emissions of the pollutant identified in Field 1, enter the total assumed collection efficiency of the control equipment (primary and secondary) in percent by weight for such pollutant. If efficiency measurements are not available, either on this emissions unit or on a similar emissions unit as reported in the literature, use an efficiency based on design data or engineering principles. If not applicable, leave blank.
6. **Potential Emissions** - Enter the potential emissions of the pollutant identified in Field 1 in pounds per hour and tons per year (include decimal as required). This field must be completed for each pollutant required to be reported unless the emissions unit addressed in this application represents fugitive emissions only. If an emissions unit burns two different fuels, or is otherwise subject to alternative methods of operation, only one set of Fields 1-11 shall be completed per pollutant, even though the potential emissions of a given pollutant may vary with the type of fuel used or with the alternative method of operation employed. In such case, the potential emissions of the pollutant are the potential emissions resulting from use of the worst-case fuel or the otherwise worst-case method of operation for that pollutant. For example, the potential emissions of sulfur dioxide of an emissions unit which burns both fuel oil and natural gas will be determined by the amount of fuel oil allowed to be burned. Where a single set of equivalent allowable emissions (pounds per hour and tons per year) is given for the pollutant addressed on this page, the potential emissions and the equivalent allowable emissions must be the same. Where there are no equivalent allowable emissions, or where there is more than one set of equivalent allowable emissions, the potential emissions represent the worst-case emissions as described above.

Note: The definition of potential emissions is given in Rule 62-210.200, F.A.C. If you have any questions on the definition or the correct method for computing potential

emissions, please contact the DEP or the local air program office to which the application will be submitted for assistance.

7. **Synthetically Limited?** - Check if the potential emissions of the pollutant addressed in Field 1 are limited by virtue of a federally enforceable restriction, assumed by the applicant, on hours of operation or on the type or amount of material combusted, stored, or processed. If checked, briefly describe in Field 11, Pollutant Potential/Estimated Emissions Comment, the nature of the restriction and enter one or more sets of equivalent allowable emissions for the pollutant addressed on this page.
8. **Emission Factor** - Enter the emission factor, and its units, used to calculate the potential emissions of the pollutant addressed in Field 1. Also, cite the reference for the factor used.
9. **Emissions Method Code** - Enter the code from the following list that best describes the method by which the potential emissions in Field 6 are determined. The methods are listed in order of preference.

Code Description of Emission Method

- | | |
|---|--|
| 0 | This entry indicates that the potential emissions were set equal to the equivalent allowable emissions or worst-case allowable emissions. |
| 1 | This entry indicates that the emissions were determined based on currently valid emissions testing or measurement. |
| 2 | This entry indicates that the emissions were calculated by the use of materials balance and knowledge of the process. |
| 3 | This entry indicates that the emissions were calculated using a directly applicable emission factor from AP-42 or the EPA FIRE system. |
| 4 | This entry indicates that the emissions were determined based on a similar, but different, process in AP-42 or the EPA FIRE system.. Code 4 should only be used when no directly applicable emission factor is included in AP-42 or the FIRE system. |
| 5 | This entry indicates that the emissions were calculated using an emission factor other than that included in AP-42 or the FIRE system. |
10. **Calculation of Emissions** - Show, in the space provided, the calculations made to determine the potential emissions of the pollutant addressed in Field 1. Document the source of any measured emission values or emissions factors used. Also, document any assumptions made regarding capture efficiency, control efficiency, and any other relevant parameters used in the calculations. If necessary, attach additional sheets for more extensive calculations or to provide supporting documentation regarding any methods of calculation.
 11. **Pollutant Potential Emissions Comment** - Enter any comments about the potential or estimated emissions of the pollutant addressed in Field 1.

Allowable Emissions

This part of the form must be completed if the pollutant addressed on this Pollutant Detail Information page would be subject to an emissions limitation as a specific condition of the emissions unit's permit. An emissions limitation, for purposes of this portion of the application

form, is any numerical emissions limiting standard required by rule for the pollutant addressed on this page, any numerical emissions limitation that would be assumed by the applicant, or any limitation on potential-to-emit created by a limitation on process rate or hours of operation assumed by the applicant. If more than one emissions limitation applies to the pollutant addressed on this page, Fields 1-6 of this part should be completed for each separate emissions limitation. Indicate, in the space provided for each set of Fields 1-6, the number of this set of allowable emissions information and the total number of allowable emissions information sets submitted. Field 6, Pollutant Allowable Emissions Comment, should be used to further explain the basis for each of the emissions limitations requested.

1. **Basis for Allowable Emissions Code** - Enter from the list below the code which corresponds to the basis for the emissions limitation requested in this set of Fields 1-6. Use Field 6, Allowable Emissions Comment, to further explain any entry made.

<u>Code</u>	<u>Basis for Emissions Limitation</u>
RULE	Emissions limitation required by rule (Specify rule in comment field)
ESCTV	Requested by applicant to allow facility to escape classification as a Title V source
ESCTIII	Requested by applicant to allow facility to escape classification as a major source of hazardous air pollutants under Title III of the Clean Air Act
ESCPSD	Requested by applicant to allow facility or modification to escape prevention of significant deterioration (PSD) preconstruction review
ESCNAA	Requested by applicant to allow facility or modification to escape nonattainment area (NAA) preconstruction review
ESCMACT	Requested by applicant to allow facility or modification to escape maximum achievable control technology (MAC) requirements
ESCRACT	Requested by applicant to allow facility to escape reasonably available control technology (RACT) requirements
AMBIENT	Requested by applicant to reduce impact of facility on ambient concentrations (Explain further in comment field)
OTHER	Requested by applicant for other reasons (Explain in comment field)

2. **Future Effective Date of Allowable Emissions** - If the allowable emissions requested in this set of Fields 1-6 would have a future effective date (e.g., a compliance deadline contained in a recently promulgated applicable requirement), enter such date.
3. **Requested Allowable Emissions and Units** - Enter the maximum rate of emissions (with units), of the pollutant addressed on this Pollutant Detail Information page, that the emissions unit would be limited to as a specific condition of its permit, where the permit condition would be expressed in units other than pounds per hour and tons per year (e.g., 0.1 lb/million Btu, 10 ppm, etc.). Use an abbreviation for the units of emission from the list below.

<u>Unit of Emission</u>	<u>Abbreviation</u>
pounds per million Btu heat input	lb/mmBtu
pounds per ton of product	lb/ton product
pounds per ton of material input	lb/ton input
pounds per hour per ton of material stored	lb/hr-ton stored
parts per million by volume	ppm
grains per dry standard cubic foot	gr/dscf
micrograms per dry standard cubic meter	ug/dscm
other (attach explanation)	(common form)

If the allowable emissions of the pollutant addressed on this Pollutant Detail Information page would vary according to the method of operation of the emissions unit, use Field 6, Pollutant Allowable Emissions Comment, to provide a description of the alternative method of operation to which the emissions limitation given in this set of Fields 1-6 would apply. For example, if the allowable emissions of the pollutant would vary according to method of operation of this emissions unit, a separate set of Fields 1-6 addressing this same pollutant must be completed for each operating method of the emissions unit for which the allowable emissions of the pollutant would vary.

Note: If an entry is made in this field, Field 4 must also be completed.

4. **Equivalent Allowable Emissions** - Enter the maximum rate of emissions in pounds per hour and tons per year, of the pollutant addressed on this Pollutant Detail Information page, that the emissions unit would be limited to as a specific condition of its permit. If the permit condition would be expressed in units other than pounds per hour or tons per year (e.g., lb/million Btu, gr/dscf, etc.), calculate the equivalent hourly and annual emission limits for entry into this field, and enter the limit as would be stated in the permit in Field 3.

If the allowable emissions of the pollutant, in terms of pounds per hour and tons per year, would vary according to the method of operation of the emissions unit, use Field 6, Pollutant Allowable Emissions Comment, to provide a description of the alternative method of operation to which the pound-per-hour and ton-per-year limitations given in this set of Fields 1-6 would apply. For example, if the hourly or annual allowable emissions of the pollutant would vary according to the method of operation of this emissions unit, a separate set of Fields 1-6 addressing this same pollutant must be completed for each operating method of the emissions unit for which the allowable emissions of the pollutant would vary.

5. **Method of Compliance** - Enter a brief description of the method by which compliance with the emissions limitation described in this set of Fields 1-6 would be demonstrated.
6. **Allowable Emissions Comment** - Enter any comments about the emissions limitation described in this set of Fields 1-6.

E. VISIBLE EMISSIONS INFORMATION **(Only Emissions Units Subject to a VE Limitation)**

Visible Emissions Limitation

The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. A separate set of visible emissions limitation information (Fields 1-5) must be completed for each

such activity. Indicate, in the space provided for each set of Fields 1-5, the number of this set of visible emissions information and the total number of visible emissions limitation sets submitted.

1. **Visible Emissions Subtype** - Enter the visible emissions subtype code for the activity addressed in corresponding Fields 2-5 of this subsection of the application form. The visible emissions subtype code is simply the letters "VE" followed immediately by two digits representing the opacity standard; for example, VE20 is the appropriate visible emissions subtype code for an opacity limitation of 20% and VE05 is the appropriate code for an opacity limitation of 5%.
2. **Basis for Allowable Opacity Code** - Enter, from the list below, the code which corresponds to the basis for the visible emissions limitations requested in this set of Fields 1-5. Use Field 5, Visible Emissions Comment, to further explain any entry made.

<u>Code</u>	<u>Basis for Visible Emissions Limitation</u>
RULE	Visible emissions limitation required by rule (Specify rule in comment field)
OTHER	Visible emissions limitation requested by applicant for other reasons (Explain in comment field)

3. **Requested Allowable Opacity** - Complete as follows:
Normal Conditions - Enter the maximum opacity, to the nearest whole percent, that the emissions unit would be allowed during normal operating conditions as a specific condition of its permit. This is the opacity limit corresponding to the visible emissions subtype code given in Field 1.
Exceptional Conditions - Enter the maximum opacity, to the nearest whole percent, that the emissions unit would be allowed during exceptional conditions as a specific condition of its permit.
Min/hr - Enter the maximum minutes per hour of excess opacity that the emissions unit would be allowed as a specific condition of its permit.
4. **Method of Compliance** - Enter a brief description of the method by which compliance with the visible emissions limitations described in this set of Fields 1-5 would be demonstrated.
5. **Visible Emissions Comment** - Enter any comments about the visible emissions information provided in this set of Fields 1-5.

F. CONTINUOUS MONITOR INFORMATION **(Emissions Units Subject to Continuous Monitoring Only)**

Continuous Monitoring System

A separate set of continuous monitor information (Fields 1-7) must be completed for each monitoring system required. Indicate, in the space provided for each set of Fields 1-7, the number of this set of continuous monitor information and the total number of continuous monitor information sets submitted.

1. **Parameter Code** - Enter, from the list below, the identification code for the parameter monitored by the continuous monitoring system addressed on this set of Fields 1-7 of the

application. If the parameter is one or more pollutants being monitored for compliance with emission limiting standards (other than visible emissions), enter "EM" in this field and the identification code(s) for the pollutant(s), as given in Appendix D, in Field 2. If the parameter is not a pollutant, enter one of the parameter codes listed below. If a parameter code is not listed for the system addressed in this set of Fields 1-7, enter a narrative description of the parameter monitored.

<u>Code</u>	<u>Parameter</u>
EM	Emissions of one or more pollutants
VE	Visible emissions (opacity)
O2	Oxygen
CO2	Carbon dioxide
TEMP	Flue gas temperature
FLOW	Volumetric flow rate
WTF	Water-to-fuel ratio
PRS	Pressure drop
PH	pH

2. **Pollutant(s)** - If the parameter code "EM" was entered in Field 1, enter the ID code(s) from Appendix D of the pollutant(s) monitored by the continuous monitor addressed in this set of Fields 1-7.
3. **CMS Requirement** - Check, from the list below, the code which corresponds to the regulatory basis for the continuous monitoring system reported in this set of Fields 1-7. Use Field 7, Continuous Monitor Comment, to further explain any entry made.

<u>Code</u>	<u>Basis for Continuous Monitor</u>
RULE	Continuous monitoring required by rule (Specify rule in comment field)
OTHER	Continuous monitoring requested by applicant for other reasons (Explain in comment field)

4. **Monitor Manufacturer, Model Number, and Serial Number** - Enter the name of the manufacturer, the model number, and the serial number of the continuous monitor addressed in this set of Fields 1-7.
5. **Installation Date** - Enter the date on which the continuous monitor addressed in this set of Fields 1-7 was installed.
6. **Performance Specification Test Date** - If performance testing is required for the continuous monitor addressed in this set of Fields 1-7, enter the date on which the performance specification test for the monitor was done.
7. **Continuous Monitor Comment** - Enter any comments about the continuous monitor information provided in this set of Fields 1-7.

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section.

Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form. Entry of a "Document ID" for each attachment will aid the Department in determining the completeness of the application. Electronic submission of supplemental information is encouraged; applicants should contact the Department regarding acceptable formats for word processing, spreadsheet, and graphic files.

All supplemental information required pursuant to this subsection of the Application for Air Permit form must be submitted to the Department along with the form in order for the application to be considered complete. If any item of supplemental information requested in this section has been submitted to the Department within the previous five years and would not be altered as a result of this permit application, it need not be resubmitted. Conversely, any item of information in the Department's files that is greater than five years old must be submitted unless the requirement to do so is waived by the Department at the applicant's request.

Supplemental Requirements

1. **Process Flow Diagram(s)** - Provide a flow diagram or set of flow diagrams identifying the individual operations and processes associated with the emissions unit addressed in this Emissions Unit Information Section. Indicate where raw materials and fuels are input, solid and liquid wastes are removed, and finished products are obtained.
2. **Fuel Analysis or Specification** - If the emissions unit is a fuel-combustion device (not an incinerator) or an incinerator which burns a supplemental fuel, provide a typical analysis or specification of each fuel that would be used. The analysis or fuel specification should give the density, heat value, and percent content by weight of sulfur, nitrogen, and ash. If the emissions unit would use a non-fossil fuel (e.g., pelletized wood or hazardous waste used as fuel), used oil, or a fuel additive, provide all information on the fuel or fuel-additive needed to provide the Department with reasonable assurance that the use of such fuel or fuel-additive would result in no violation of any air pollution statute of the State of Florida or rule of the Department of Environmental Protection.
3. **Detailed Description of Control Equipment** - Provide a description of the air pollution control equipment associated with the emissions unit addressed in this section including design details such as baghouse cloth-to-air ratio, scrubber cross-sectional sketch and design pressure drop, afterburner temperature, etc. For each control device or method, provide either a copy of the manufacturer's guarantee of control efficiency or an acknowledgment that the applicant's professional engineer is satisfied that the device will achieve a control efficiency sufficient to meet any applicable emission limitations. If available, include test data for similar emissions units to support the control efficiency assertion.
4. **Description of Stack Sampling Facilities** - If the emissions unit is subject to a stack sampling requirement, provide a description of the stack sampling facilities including sampling ports, work platforms, means of access, and equipment support structures.
5. **Compliance Test Report** - If a compliance test report is required with this application, provide the required test report. If the test report has been previously submitted, indicate such and enter the date of submittal.

6. **Procedures for Startup and Shutdown** - If this application is submitted to obtain an air operation permit and excess emissions are possible during periods of startup or shutdown of the emissions unit, provide a brief, nonexclusive description of the general procedures to be followed during such periods to ensure that the best operational practices to minimize emissions will be adhered to and that the duration of any excess emissions will be minimized.
7. **Operation and Maintenance Plan** - If the emissions unit is required to have an operation and maintenance plan, provide a current copy of the required plan.
8. **Supplemental Information for Construction Permit Application** - If this application is submitted to obtain an air construction permit, provide any additional emissions unit-specific information required by the Department under the applicable provisions of Rule 62-212, F.A.C., "Stationary Sources - Preconstruction Review."
9. **Other Information Required by Rule or Statute** - Provide other information related to the emissions unit addressed in this Emissions Unit Information Section as may be required by any applicable air pollution statute of the State of Florida or rule of the Department of Environmental Protection.
10. **Supplemental Requirements Comment** - Enter any comment about the supplemental requirements addressed in this section of the Application for Air Permit form, particularly as required to justify the requested waiver of any item of supplemental information.

APPENDIX A

MAJOR GROUP STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODES

<u>Code</u>	<u>Major Group Title</u>
01	Agriculture production - crops
02	Agriculture production - livestock and animal specialties
07	Agricultural services
08	Forestry
09	Fishing, hunting, and trapping
10	Metal mining
12	Coal mining
13	Oil and gas extraction
14	Mining and quarrying of nonmetallic minerals, except fuels
15	Building construction - general contractors and operative builders
16	Heavy construction other than building construction - contractors
17	Construction - special trade contractors
20	Food and kindred products
21	Tobacco products
22	Textile mill products
23	Apparel and other finished products made from fabrics and similar materials
24	Lumber and wood products, except furniture
25	Furniture and fixtures
26	Paper and allied products
27	Printing, publishing, and allied industries
28	Chemicals and allied products
29	Petroleum refining and related industries
30	Rubber and miscellaneous plastics products
31	Leather and leather products
32	Stone, clay, glass, and concrete products
33	Primary metal industries
34	Fabricated metal products, except machinery and transportation equipment
35	Industrial and commercial machinery and computer equipment
36	Electronic and other electrical equipment and components, except computer equipment
37	Transportation equipment
38	Measuring, analyzing, and controlling instruments; photographic, medical and optical goods; watches and clocks
39	Miscellaneous manufacturing industries
40	Railroad transportation
41	Local and suburban transit and interurban highway passenger transportation
42	Motor freight transportation and warehousing
43	United States Postal Service

APPENDIX A (Continued)

MAJOR GROUP STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODES

<u>Code</u>	<u>Major Group Title</u>
44	Water transportation
45	Transportation by air
46	Pipelines, except natural gas
47	Transportation services
48	Communications
49	Electric, gas, and sanitary services
50	Wholesale trade - durable goods
51	Wholesale trade - nondurable goods
52	Building materials, hardware, garden supply, and mobile home dealers
53	General merchandise stores
54	Food stores
55	Automotive dealers and gasoline service stations
56	Apparel and accessory stores
57	Home furniture, furnishings, and equipment stores
58	Eating and drinking places
59	Miscellaneous retail
60	Depository institutions
61	Nondepository credit institutions
62	Security and commodity brokers, dealers, exchanges, and services
63	Insurance carriers
64	Insurance agents, brokers, and services
65	Real estate
67	Holding and other investment offices
70	Hotels, rooming houses, camps, and other lodging places
72	Personal services
73	Business services
75	Automotive repairs, services, and parking
76	Miscellaneous repair services
78	Motion pictures
79	Amusement and recreation services
80	Health services
81	Legal services
82	Educational services
83	Social services
84	Museums, art galleries, and botanical and zoological gardens
86	Membership organizations

APPENDIX A (Continued)

MAJOR GROUP STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODES

<u>Code</u>	<u>Major Group Title</u>
87	Engineering, accounting, research, management, and related services
88	Private households
89	Miscellaneous services
91	Executive, legislative, and general government, except finance
92	Justice, public order, and safety
93	Public finance, taxation, and monetary policy
94	Administration of human resource programs
95	Administration of environmental quality and housing programs
96	Administration of economic programs
97	National security and international affairs
99	Nonclassifiable establishments

APPENDIX B

CONTROL DEVICE AND METHOD CODES

<u>Code</u>	<u>Control Device/Method</u>
001	Wet Scrubber - High Efficiency
002	Wet Scrubber - Medium Efficiency
003	Wet Scrubber - Low Efficiency
004	Gravity Collector - High Efficiency
005	Gravity Collector - Medium Efficiency
006	Gravity Collector - Low Efficiency
007	Centrifugal Collector - High Efficiency
008	Centrifugal Collector - Medium Efficiency
009	Centrifugal Collector - Low Efficiency
010	Electrostatic Precipitator - High Efficiency
011	Electrostatic Precipitator - Medium Efficiency
012	Electrostatic Precipitator - Low Efficiency

Note: For the above particulate matter control devices, the efficiency ranges correspond to the following percentages:

High: 95 - 99+; Medium 80 - 94; Low: less than 80

013	Gas Scrubber (General, Not Classified)
014	Mist Eliminator - High Velocity ($V > 250$ ft/min)
015	Mist Eliminator - Low Velocity ($V < 250$ ft/min)
016	Fabric Filter - High Temperature ($T > 250F$)
017	Fabric Filter - Medium Temp. ($180F < T < 250F$)
018	Fabric Filter - Low Temperature ($T < 180F$)
019	Catalytic Afterburner
020	Catalytic Afterburner with Heat Exchanger
021	Direct Flame Afterburner
022	Direct Flame Afterburner with Heat Exchanger
023	Flaring
024	Modified Furnace or Burner Design
025	Staged Combustion
026	Flue Gas Recirculation
027	Reduced Combustion - Air Preheating
028	Steam or Water Injection
029	Low Excess-Air Firing
030	Use of Fuel with Low Nitrogen Content
031	Air Injection
032	Ammonia Injection
033	Control of % O ₂ in Combustion Air (Off-Stoichiometric Firing)

APPENDIX B (Continued)

CONTROL DEVICE AND METHOD CODES

<u>Code</u>	<u>Control Method/Code</u>
034	Wellman-Lord/Sodium Sulfite Scrubbing
035	Magnesium Oxide Scrubbing
036	Dual Alkali Scrubbing
037	Citrate Process Scrubbing
038	Ammonia Scrubbing
039	Catalytic Oxidation - Flue Gas Desulfurization
040	Alkalized Alumina
041	Dry Limestone Injection
042	Wet Limestone Injection
043	Sulfuric Acid Plant - Contact Process
044	Sulfuric Acid Plant - Double Contact Process
045	Sulfur Plant
046	Process Change
047	Vapor Recovery System (Incl. Condensers, Hooding & Other Enclosures)
048	Activated Carbon Adsorption
049	Liquid Filtration System
050	Packed-Gas Adsorption Column
051	Tray-Type Gas Adsorption Column
052	Spray Tower
053	Venturi Scrubber
054	Process Enclosed
055	Impingement Plate Scrubber
056	Dynamic Separator (Dry)
057	Dynamic Separator (Wet)
058	Mat or Panel Filter
059	Metal Fabric Filter Screen (Cotton Gins)
060	Process Gas Recovery
061	Dust Suppression by Water Sprays
062	Dust Suppression by Chemical Stabilizers or Wetting Agents
063	Gravel Bed Filter
064	Annular Ring Filter
065	Catalytic Reduction
066	Molecular Sieve
067	Wet Lime Slurry Scrubbing
068	Alkaline Fly Ash Scrubbing
069	Sodium Carbonate Scrubbing
070	Sodium - Alkali Scrubbing
071	Fluid Bed Dry Scrubbing

APPENDIX B (Continued)

CONTROL DEVICE AND METHOD CODES

<u>Code</u>	<u>Control Method/Code</u>
072	Tube and Shell Condenser
073	Refrigerated Condenser
074	Barometric Condenser
075	Single Cyclone
076	Multiple Cyclone w/o Fly Ash Reinjection
077	Multiple Cyclone w/Fly Ash Reinjection
078	Baffle
079	Dry Electrostatic Granular Filter
080	Chemical Oxidation
081	Chemical Reduction
082	Ozonation
083	Chemical Neutralization
084	Activated Clay Adsorption
085	Wet Cyclonic Separator
086	Water Curtain
087	Nitrogen Blanket
088	Conservation Vent
089	Bottom Filling
090	Conversion to Variable Space Vapor Tank
091	Conversion to Floating Roof Tank
092	Conversion to Pressurized Tank
093	Submerged Filling
094	Underground Tank
095	White Paint
096	Vapor Lock Balance Recovery System
097	Installation of Secondary Seal for External Floating Roof Tank
098	Moving Bed Dry Scrubber
099	Miscellaneous Control Devices
101	High Efficiency Particulate Air Filter
102	Low Solvent Coatings
103	Power Coatings
104	Waterborne Coatings
105	Process Modification - Electrostatic Spraying
106	Dust Suppression by Physical Stabilization
107	Selective Noncatalytic Reduction for NOx
108	Dust Suppression - Traffic Control

APPENDIX C

COMMON SOURCE CLASSIFICATION CODE (SCC) UNITS

Materials Consuming Operations

Tons Used
Gallons Used
Units Used

Materials Processing Operations

Tons Processed
Hundred Tons Processed
Thousand Gallons Processed
Million Cubic Feet Processed
Thousand Barrels Fresh Feed Processed
Thousand Barrels Refinery Feed Processed
Thousand Barrels Vacuum Feed Processed
Thousand Barrels Clear Water Processed
Thousand Barrels Waste Water Processed
Units Processed

Materials Handling & Storage Operations

Tons Transferred or Handled
Tons Stored
Thousand Gallons Transferred or Handled
Thousand Gallons Stored
Drains Operating
Seals Operating
Valves Operating
Acres Storage

Fuel Burning (Including In-process Fuel Use)

Tons Burned (all solid fuels)
Thousand Gallons Burned (all liquid fuels)
Million Cubic Feet Burned (all gaseous fuels)

APPENDIX C (Continued)

COMMON SOURCE CLASSIFICATION CODE (SCC) UNITS

Production and Manufacturing Operations

Hundred Pounds Produced or Manufacturing
Tons Produced or Manufactured
Gallons Produced or Manufactured
Thousand Gallons Produced or Manufactured
Thousand Barrels Produced or Manufactured
Cubic Yards Produced or Manufactured
Million Cubic Feet Produced or Manufactured
Tons Air-Dried Unbleached Pulp Produced
Thousand Square Feet Coated
Units Produced or Manufactured
Thousand Units Produced or Manufactured

APPENDIX D

POLLUTANT IDENTIFICATION CODES

Criteria and Precursor Air Pollutants

<u>Pollutant Name</u>	<u>Identification Code</u>
Carbon Monoxide	CO
Lead - Total (including elemental lead and all lead compounds, expressed as lead)	PB
Nitrogen Oxides (including nitrogen dioxide and nitric oxide, expressed as nitrogen dioxide)	NOX
Particulate Matter - Total (the basis of most emission limitations: including all particles as measured by applicable reference methods, or any equivalent or alternative methods specified in 40 CFR 60 or Department rule)	PM
Particulate Matter - PM10 (the basis of ambient air quality standards and PSD increments: including only those particles nominally 10 microns or less in aerodynamic diameter)	PM10
Sulfur Dioxide	SO2
Volatile Organic Compounds (excluding those compounds defined by rule which do not participate in atmospheric photochemical reactions)	VOC

APPENDIX D (Continued)

POLLUTANT IDENTIFICATION CODES

Designated Air Pollutants

(Pollutants regulated under sections 111 and 129 of the Clean Air Act)

<u>Pollutant Name</u>	<u>Identification Code</u>
Cadmium	H027
Dioxin/Furan (MWC organics) (including all tetra through octachlorinated dibenzo-p-dioxins and dibenzofurans)	DIOX
Fluorides - Total (including elemental fluorine and all fluoride compounds)	FL
Hydrogen Chloride	H106
Hydrogen Sulfide	H2S
Municipal waste combustor metals (measured as particulate matter)	PM
Municipal waste combustor acid gases (measured as sulfur dioxide and hydrogen chloride)	SO2 H106
Municipal solid waste landfill emissions (measured as nonmethane organic compounds)	NMOC
Mercury	H114
Nonmethane Organic Compounds	NMOC
Reduced Sulfur Compounds (for petroleum refineries; including H2S, carbonyl sulfide, and carbon disulfide)	RSC
Sulfuric Acid Mist	SAM
Total Reduced Sulfur (for pulp mills and tall oil plants; including H2S, methyl mercaptan, dimethyl sulfide, and dimethyl disulfide)	TRS

APPENDIX D (Continued)

POLLUTANT IDENTIFICATION CODES

Hazardous Air Pollutants

<u>Pollutant Name</u>	<u>CAS Number</u>	<u>Identification Code</u>
Total Hazardous Air Pollutants		HAPS
Acetaldehyde	75-07-0	H001
Acetamide	60-35-5	H002
Acetonitrile	75-05-8	H003
Acetophenone	98-86-2	H004
2-Acetylaminofluorene	53-96-3	H005
Acrolein	107-02-8	H006
Acrylamide	79-06-1	H007
Acrylic acid	79-10-7	H008
Acrylonitrile	107-13-1	H009
Allyl chloride	107-05-1	H010
4-Aminobiphenyl	92-67-1	H011
Aniline	62-53-3	H012
o-Anisidine	90-04-0	H013
Antimony Compounds		H014
Arsenic Compounds (inorganic including arsine)		H015
Asbestos	1332-21-4	H016
Benzene (including benzene from gasoline)	71-43-2	H017
Benzidine	92-87-5	H018
Benzotrichloride	98-07-7	H019
Benzyl chloride	100-44-7	H020
Beryllium Compounds		H021
Biphenyl	92-52-4	H022
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	H023
Bis(chloromethyl)ether	542-88-1	H024
Bromoform	75-25-2	H025
1,3-Butadiene	106-99-0	H026
Cadmium Compounds		H027
Calcium cyanamide (Reserved)	156-62-7	H028
Captan	133-06-2	H030
Carbaryl	63-25-2	H031
Carbon disulfide	75-15-0	H032

APPENDIX D (Continued)

POLLUTANT IDENTIFICATION CODES

Hazardous Air Pollutants (continued)

<u>Pollutant Name</u>	<u>CAS Number</u>	<u>Identification Code</u>
Carbon tetrachloride	56-23-5	H033
Carbonyl sulfide	463-58-1	H034
Catechol	120-80-9	H035
Chloramben	133-90-4	H036
Chlordane	57-74-9	H037
Chlorine	7782-50-5	H038
Chloroacetic acid	79-11-8	H039
2-Chloroacetophenone	532-27-4	H040
Chlorobenzene	108-90-7	H041
Chlorobenzilate	510-15-6	H042
Chloroform	67-66-3	H043
Chloromethyl methyl ether	107-30-2	H044
Chloroprene	126-99-8	H045
Chromium Compounds		H046
Cobalt Compounds		H047
Coke Oven Emissions		H048
Cresols/Cresylic acid (isomers and mixture)	1319-77-3	H049
o-Cresol	95-48-7	H050
m-Cresol	108-39-4	H051
p-Cresol	106-44-5	H052
Cumene	98-82-8	H053
Cyanide Compounds (X'CN, where X = H' or any other group where a formal dissociation may occur; for example, KCN or Ca(CN)2)		H054
2,4-D, salts and esters	94-75-7	H055
DDE	3547-04-4	H056
Diazomethane	334-88-3	H057
Dibenzofurans	132-64-9	H058
1,2-Dibromo-3-chloropropane	96-12-8	H059
Dibutylphthalate	84-74-2	H060
1,4-Dichlorobenzene(p)	106-46-7	H061
3,3-Dichlorobenzidene	91-94-1	H062
Dichloroethyl ether (Bis(2-chloroethyl)ether)	111-44-4	H063

APPENDIX D (Continued)

POLLUTANT IDENTIFICATION CODES

Hazardous Air Pollutants (continued)

<u>Pollutant Name</u>	<u>CAS Number</u>	<u>Identification Code</u>
1,3-Dichloropropene	542-75-6	H064
Dichlorvos	62-73-7	H065
Diethanolamine	111-42-2	H066
N,N-Diethyl aniline (N,N-Dimethylaniline)	121-69-7	H067
Diethyl sulfate	64-67-5	H068
3,3-Dimethoxybenzidine	119-90-4	H069
Dimethyl aminoazobenzene	60-11-7	H070
3,3-Dimethyl benzidine	1119-93-7	H071
Dimethyl carbamoyl chloride	79-44-7	H072
Dimethyl formamide	68-12-2	H073
1,1-Dimethyl hydrazine	57-14-7	H074
Dimethyl phthalate	131-11-3	H075
Dimethyl sulfate	77-78-1	H076
4,6-Dinitro-o-cresol, and salts	534-52-1	H077
2,4-Dinitrophenol	51-25-8	H078
2,4-Dinitrotoluene	121-14-2	H079
1,4-Dioxane (1,4-Diethyleneoxide)	123-91-1	H080
1,2-Diphenylhydrazine	122-66-7	H081
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	106-89-8	H082
1,2-Epoxybutane	106-88-7	H083
Ethyl acrylate	140-88-5	H084
Ethyl benzene	100-41-4	H085
Ethyl carbamate (Urethane)	51-79-6	H086
Ethyl chloride (Chloroethane)	75-00-3	H087
Ethylene dibromide (Dibromoethane)	106-93-4	H088
Ethylene dichloride (1,2-Dichloroethane)	10706-2	H089
Ethylene glycol	107-21-1	H090
Ethylene imine (Aziridine)	151-56-4	H091
Ethylene oxide	75-21-8	H092
Ethylene thiourea	96-45-7	H093
Ethylidene dichloride (1,1-Dichloroethane)	75-34-3	H094
Formaldehyde	50-00-0	H095

APPENDIX D (Continued)

POLLUTANT IDENTIFICATION CODES

Hazardous Air Pollutants (continued)

<u>Pollutant Name</u>	<u>CAS Number</u>	<u>Identification Code</u>
Glycol ethers (includes mono- and di- ethers of ethylene glycol, diethylene glycol, and triethylene glycol R-(OCH ₂ CH ₂) _n -OR' where: n = 1, 2, or 3; R = alkyl or aryl groups, and R' = R, H, or groups which, when removed, yield glycol ethers with the structure: R-(OCH ₂ CH) _n -OH. Polymers are excluded from the glycol category)		H096
Heptachlor	76-44-8	H097
Hexachlorobenzene	118-74-1	H098
Hexachlorobutadiene	87-68-3	H099
Hexachlorocyclopentadiene	77-47-4	H100
Hexachloroethane	67-72-1	H101
Hexamethylene-1,6-diisocyanate	822-06-0	H102
Hexamethylphosphoramide	680-31-9	H103
Hexane	110-54-3	H104
Hydrazine	302-01-2	H105
Hydrochloric acid	7647-01-0	H106
Hydrogen fluoride (Hydrofluoric acid)	7664-39-3	H107
Hydroquinone	123-31-9	H108
Isophorone	78-59-1	H109
Lead Compounds		PB
Lindane (all isomers)	58-89-9	H111
Maleic anhydride	108-31-6	H112
Manganese Compounds		H113
Mercury Compounds		H114
Methanol	67-56-1	H115
Methoxychlor	72-43-5	H116
Methyl bromide (Bromomethane)	74-83-9	H117
Methyl chloride (Chloromethane)	74-87-3	H118
Methyl chloroform (1,1,1-Trichloroethane)	71-55-6	H119
Methyl ethyl ketone (2-Butanone)	78-93-3	H120
Methyl hydrazine	60-34-4	H121
Methyl iodide (Iodomethane)	74-88-4	H122

APPENDIX D (Continued)

POLLUTANT IDENTIFICATION CODES

Hazardous Air Pollutants (continued)

<u>Pollutant Name</u>	<u>CAS Number</u>	<u>Identification Code</u>
Methyl isobutyl ketone (Hexone)	108-10-1	H123
Methyl isocyanate	624-83-9	H124
Methyl methacrylate	80-62-6	H125
Methyl tert butyl ether	1634-04-4	H126
4,4-Methylene bis (2-chloroaniline)	101-14-4	H127
Methylene chloride (Dichloromethane)	75-09-2	H128
Methylene diphenyl diisocyanate (MDI)	101-68-8	H129
4,4-Methylenedianiline	101-77-9	H130
Mineral fibers (fine), includes mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers (or other mineral derived fibers) of average diameter 1 micrometer or less		H131
Naphthalene	91-20-3	H132
Nickel Compounds		H133
Nitrobenzene	98-95-3	H134
4-Nitrobiphenyl	92-93-3	H135
4-Nitrophenol	100-02-7	H136
2-Nitropropane	79-49-6	H137
N-Nitroso-N-methylurea	684-93-5	H138
N-Nitrosodimethylamine	62-75-9	H139
N-Nitrosomorpholine	59-89-2	H140
Parathion	56-38-2	H141
Pentachloronitrobenzene (Quintobenzene)	82-68-8	H142
Pentachlorophenol	87-86-5	H143
Phenol	108-95-2	H144
p-Phenylenediamine	106-50-3	H145
Phosgene	75-44-5	H146
Phosphine	7803-51-2	H147
Phosphorus	7723-14-0	H148
Phthalic anhydride	85-44-9	H149
Polychlorinated biphenyls (Aroclors)	1336-36-3	H150

APPENDIX D (Continued)

POLLUTANT IDENTIFICATION CODES

Hazardous Air Pollutants (continued)

<u>Pollutant Name</u>	<u>CAS Number</u>	<u>Identification Code</u>
Polycyclic organic matter (includes organic compounds with more than one benzene ring, and which have a boiling point greater than or equal to 100°C)		H151
1,3-Propane sultone	1120-71-4	H152
beta-Propiolactone	57-57-8	H153
Propionaldehyde	123-38-6	H154
Propoxur (Baygon)	114-26-1	H155
Propylene dichloride (1,2-Dichloropropane)	78-87-5	H156
Propylene oxide	75-56-9	H157
1,2-Propylenimine (2-Methyl aziridine)	75-55-8	H158
Quinoline	91-22-5	H159
Quinone	106-51-4	H160
Radionuclides (including radon), a type of atom which spontaneously undergoes radioactive decay		H161
Selenium Compounds		H162
Styrene	100-42-5	H163
Styrene oxide	96-09-3	H164
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	H165
1,1,2,2-Tetrachloroethane	79-34-5	H166
Tetrachloroethylene (Perchloroethylene)	127-18-4	H167
Titanium tetrachloride	7550-45-0	H168
Toluene	108-88-3	H169
2,4-Toluene diamine	95-80-7	H170
2,4-Toluene diisocyanate	584-84-9	H171
o-Toluidine	95-53-4	H172
Toxaphene (chlorinated camphene)	8001-35-2	H173
1,2,4-Trichlorobenzene	120-82-1	H174
1,1,2-Trichloroethane	79-00-5	H175
Trichloroethylene	79-01-6	H176
2,4,5-Trichlorophenol	95-95-4	H177
2,4,6-Trichlorophenol	88-06-2	H178
Triethylamine	121-44-8	H179
Trifluralin	1582-09-8	H180

APPENDIX D (Continued)

POLLUTANT IDENTIFICATION CODES

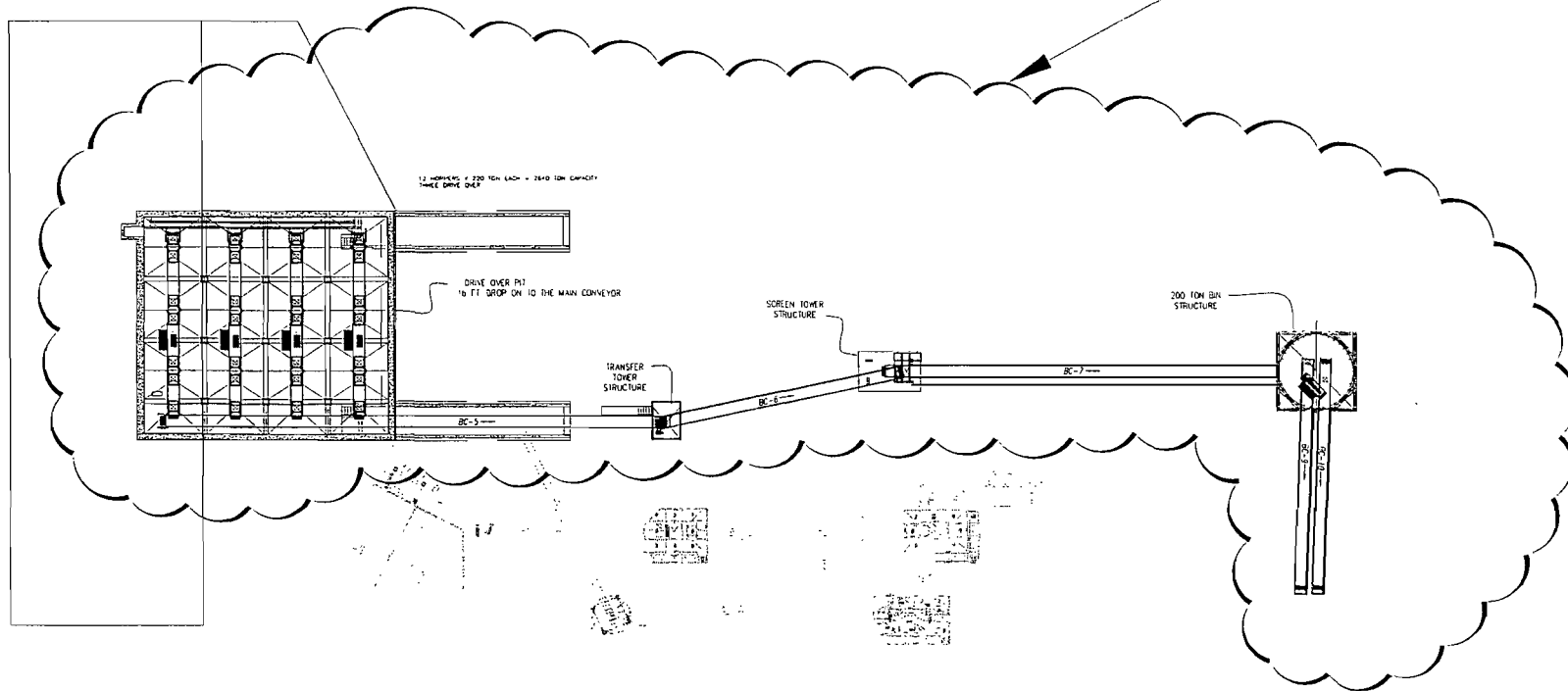
Hazardous Air Pollutants (continued)

<u>Pollutant Name</u>	<u>CAS Number</u>	<u>Identification Code</u>
2,2,4-Trimethylpentane	540-84-1	H181
Vinyl acetate	108-05-4	H182
Vinyl bromide	593-60-2	H183
Vinyl chloride	75-01-4	H184
Vinylidene chloride (1,1-Dichloroethylene)	75-35-4	H185
Xylenes (isomers and mixtures)	1330-20-7	H186
o-Xylenes	95-47-6	H187
m-Xylenes	108-38-3	H188
p-Xylenes	106-42-3	H189


ATTACHMENT 1

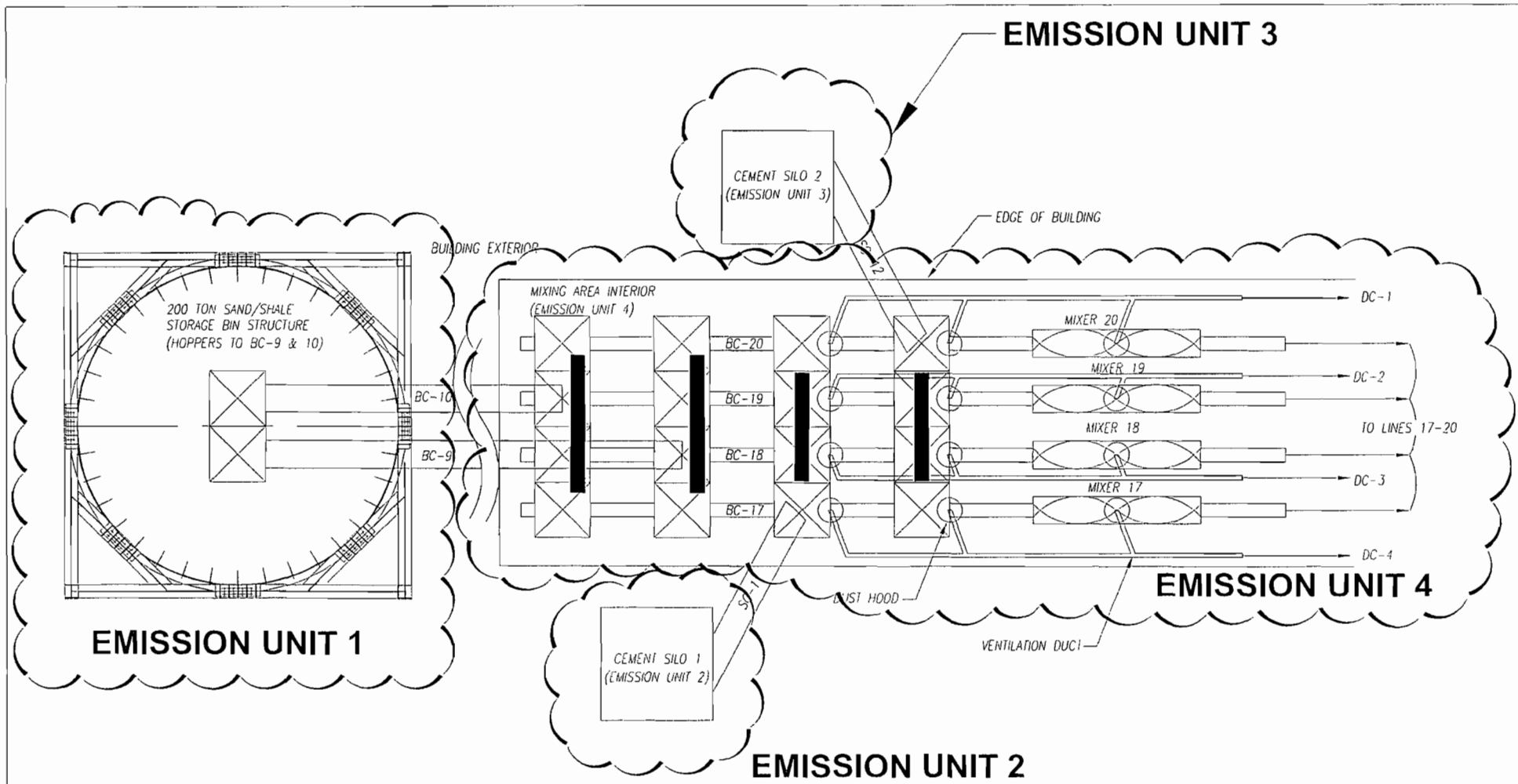
**Figures 1 through 6 of the of the facility location
and process**

EMISSION UNIT 1




NOTE:
BASE PLAN PROVIDED BY DUNCAN BROTHERS, JOB NUMBER 1087-06

 KLEINFELDER An employee owned company	SAND/SHALE/DELIVERY/HANDLING (EMISSION UNIT 1) EAGLE ROOFING SUMTERVILLE, FLORIDA		Figure 3	
	Checked By: V. Allen	Drafted By: SMH/DAD		
	Project Number: C56204601	Date: April, 2008		

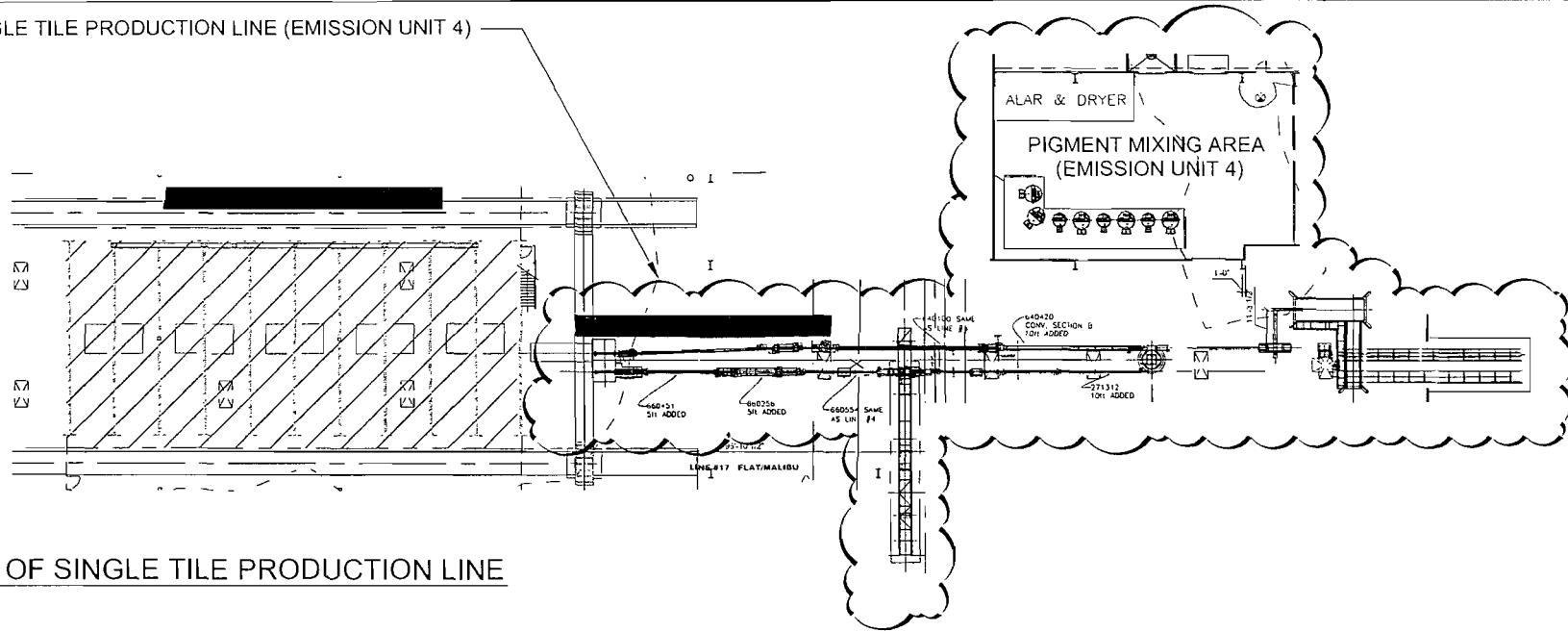


NOTE:

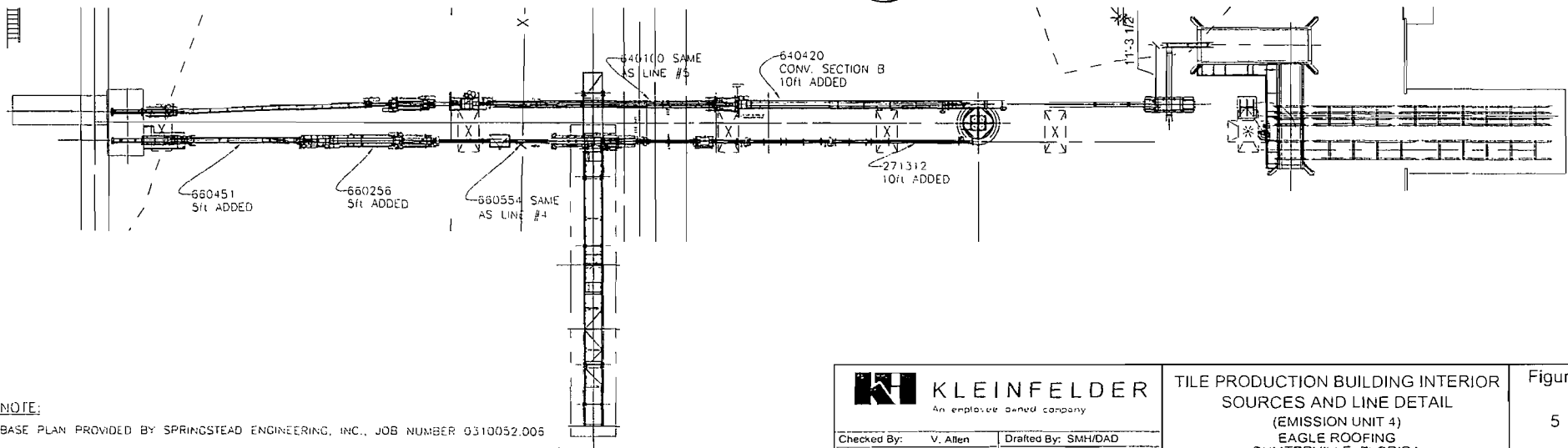
SILO DETAILS PROVIDED BY DUNCAN BROTHERS, JOB NUMBER 1037-06

 KLEINFELDER <small>An employee owned company</small>	SAND/SHALE/CEMENT MIXING AREA (EMISSION UNITS 1-4) EAGLE ROOFING SUMTERVILLE, FLORIDA		Figure 4
	Checked By: V. Allen Project Number: C56204601	Drafted By: SMH/DAD Date: April, 2008	


SINGLE TILE PRODUCTION LINE (EMISSION UNIT 4)



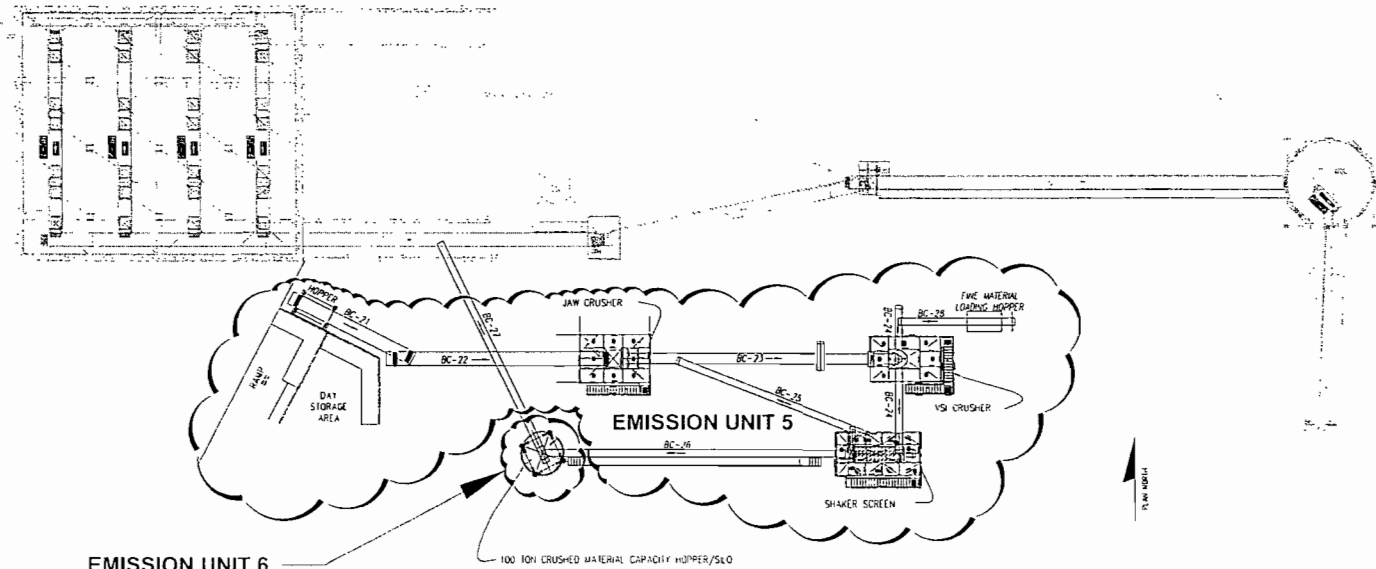
DETAIL OF SINGLE TILE PRODUCTION LINE



NOTE:
BASE PLAN PROVIDED BY SPRINGSTEAD ENGINEERING, INC., JOB NUMBER 0310052.005

 KLEINFELDER An employee owned company	TILE PRODUCTION BUILDING INTERIOR SOURCES AND LINE DETAIL (EMISSION UNIT 4) EAGLE ROOFING SUMTERVILLE, FLORIDA		Figure 5
	Checked By: V. Allen Project Number: C56204601	Drafted By: SMH/DAD Date: April, 2008	

EMISSION UNIT 1



EMISSION UNIT 6

100 TON CRUSHED MATERIAL CAPACITY HOPPER/SILO

EMISSION UNIT 5

NOTE:

BASE PLAN PROVIDED BY DUNCAN BROTHERS, JOB NUMBER 1087-06

KH **KLEINFELDER**
 An employee owned company

Checked By: V. Allen Drafted By: SMH/DAD
 Project Number: C56204601 Date: April, 2008

REJECT TILE CRUSHING/HANDLING
 (EMISSION UNITS 5 - 6)
 EAGLE ROOFING
 SUMTERVILLE, FLORIDA

Figure
 6

ATTACHMENT 2

Calculations

Facility Emissions Summary

Poll ID	Potential To Emit	
	lbs/hr	tons/yr
Total PM	4.88	10.72
PM-10	2.29	5.65
VOC	2.29	10.02
SO2	0.02	0.09
NO2	0.34	1.50
CO	0.84	3.68

PM-10 EMISSION RATE CALCULATIONS

Much of the emissions from the sources shown below are generally collected (such as by an enclosure or dust collector vent) and then sent to a control device (such as a baghouse). Therefore, the following emission calculations are conservative estimates of potential to emit and reflect higher emissions than are actually anticipated. The calculation of the PTE is based on a two part equation. The first part of the equation addresses emissions that are directly emitted to the atmosphere (i.e. uncollected and uncontrolled). The second part of the equation accounts for the portion of emissions that are collected and sent to a control device (if federally enforceable). The equation is as follows:

$$PTE = (PR \times EF \times UCE) + (PR \times EF \times (1-UCE) \times (1-CE))$$

Where:

- PTE = Potential To Emit (lb/hr or ton/yr) -with control efficiency taken into account when a federally enforceable control limit applies
- PR = Process Rate (tons/hr or tons/yr)
- EF = Emission Factor
- UCE = Fraction of UnCollected Emissions that are emitted directly to the atmosphere
- 1-UCE = Fraction of Collected Emissions that are ducted to a control device
- CE = Control Efficiency (where 1-CE is the fraction that passes through the control device)

An example of the application of this equation using the Emission Unit 1 Screen is as follows:

- PR = 1,112,760 tons/yr
- EF = 0.0087 lbs PM-10/ton (Uncontrolled emission factor from AP-42 for screening)
- UCE = 10% (assumes that 10% of the dust is directly emitted to the atmosphere with the remaining 90% being collected by a dust collector)
- CE = 99.9% (based on vendor specification for dust control through a baghouse filter)
- Therefore, PTE = (1,112,760 tons/yr x 0.0087 lbs PM-10/ton x 10%) + (1,112,760 tons/yr x 0.0087 lbs PM-10/ton x 90% x 0.01%)
- Or PTE of the Emission Unit 1 Screen is 0.49 tons of PM-10/yr

Source	Material Handling Capacities		Emission Type	Uncontrolled Emission Factor	Control Device (Shown for reference purposes and may not be credited in the PTE calculations as noted)	Fraction of Emissions Considered Uncollected for purposes of estimating PTE (i.e. directly emitted to atmosphere) (%)	Fraction of Collected Emissions (sent to a control device) (%)	Control Device Efficiency (%)	PM-10		Notes
	Hourly	Annual							Potential To Emit		
									(ton/yr)	(lb/hr)	
Emission Unit 1											
Sand/Shale Delivery/Handling (underground or outdoor)											
Plaster Sand											
Truck Unloading to Grizzly (drive over hoppers)	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Enclosure/Water Spray	100%	0%	0.0%	0.11	0.07	1, 10
Hoppers to BC-1,-2,-3,-4	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Enclosure/Water Spray	100%	0%	0.0%	0.11	0.07	1, 10
BC-1,-1,-2,-4 to BC-5	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Enclosure/Water Spray	100%	0%	0.0%	0.11	0.07	1, 10
BC-5 to BC-6	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Enclosure/Water Spray	100%	0%	0.0%	0.11	0.07	1, 10
BC-6 to Screen	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Enclosure/Water Spray	100%	0%	0.0%	0.11	0.07	1, 10
Screening	384 tons/hr	1,182,600 tons/yr	Screening	8.70E-03 lb PM-10/ton	Dust Collector/Baghouse	10%	90%	99.9%	0.52	0.34	2, 10
Screen to BC-7	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Enclosure/Water Spray	100%	0%	0.0%	0.11	0.07	1, 10
BC-7 to 200T Bins	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Enclosure/Water Spray	100%	0%	0.0%	0.11	0.07	1, 10
200T Bins to BC-8	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Enclosure/Water Spray	100%	0%	0.0%	0.11	0.07	1, 10
BC-8 to BC-9,-10	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Enclosure/Water Spray	100%	0%	0.0%	0.11	0.07	1, 10
									1.54	1.00	
Shale											
Truck Unloading to Grizzly (drive over hoppers)	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	8.18E-05 lb PM-10/ton	Enclosure/Water Spray	100%	0%	0.0%	0.05	0.03	1, 10
Hoppers to BC-1,-2,-3,-4	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	8.18E-05 lb PM-10/ton	Enclosure/Water Spray	100%	0%	0.0%	0.05	0.03	1, 10
BC-1,-1,-2,-4 to BC-5	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	8.18E-05 lb PM-10/ton	Enclosure/Water Spray	100%	0%	0.0%	0.05	0.03	1, 10
BC-5 to BC-6	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	8.18E-05 lb PM-10/ton	Enclosure/Water Spray	100%	0%	0.0%	0.05	0.03	1, 10
BC-6 to Screen	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	8.18E-05 lb PM-10/ton	Enclosure/Water Spray	100%	0%	0.0%	0.05	0.03	1, 10
Screening	384 tons/hr	1,182,600 tons/yr	Screening	8.70E-03 lb PM-10/ton	Enclosure/Water Spray	10%	90%	99.9%	0.52	0.34	2, 10
Screen to BC-7	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	8.18E-05 lb PM-10/ton	Enclosure/Water Spray	100%	0%	0.0%	0.05	0.03	1, 10
BC-7 to 200T Bins	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	8.18E-05 lb PM-10/ton	Enclosure/Water Spray	100%	0%	0.0%	0.05	0.03	1, 10
200T Bins to BC-8	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	8.18E-05 lb PM-10/ton	Enclosure/Water Spray	100%	0%	0.0%	0.05	0.03	1, 10
BC-8 to BC-9,-10	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	8.18E-05 lb PM-10/ton	Enclosure/Water Spray	100%	0%	0.0%	0.05	0.03	1, 10
									0.95	0.62	
Unit 1 Total									1.54	1.00	3

Source	Material Handling Capacities		Emission Type	Uncontrolled Emission Factor	Control Device (Shown for reference purposes and may not be credited in the PTE calculations as noted)	Fraction of Emissions Considered Uncollected for purposes of estimating PTE (i.e. directly emitted to atmosphere) (%)	Fraction of Collected Emissions (sent to a control device) (%)	Control Device Efficiency (%)	PM-10		Notes
	Hourly	Annual							Potential To Emit		
									(ton/yr)	(lb/hr)	
Emission Units 2 & 3											
Cement Deliveries to Silos 1 and 2											
Cement Delivery to Silo 1	22.5 tons/hr	197,100 tons/yr	Material Transfer Point	0.46 lb PM-10/ton	Silo w/ Baghouse	0%	100%	99.9%	0.03	0.01	4, 10
Cement Delivery To Silo 2	22.5 tons/hr	197,100 tons/yr	Material Transfer Point	0.46 lb PM-10/ton	Silo w/ Baghouse	0%	100%	99.9%	0.03	0.01	4, 10
Units 2 & 3 Total											
									0.07	0.02	
Emission Unit 4											
Sand/Shale/Cement Mixing Area (indoor)											
BC-9 to sand/shale hopper bin 1	135 tons/hr	1,112,760 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Inside of Building	100.0%	0%	0.0%	0.11	0.03	1,3,5,10
Sand/Shale Hopper Bin 1 to FC-17,-18,-19,-20	135 tons/hr	1,112,760 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Inside of Building	100.0%	0%	0.0%	0.11	0.03	1,3,5,10
BC-10 to sand/shale hopper bin 2	135 tons/hr	1,112,760 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Inside of Building	100.0%	0%	0.0%	0.11	0.03	1,3,5,10
Sand/Shale Hopper Bin 2 to FCB-17,-18,-19,-20	135 tons/hr	1,112,760 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Inside of Building	100.0%	0%	0.0%	0.11	0.03	1,3,5,10
SC-1 to cement hopper 1	22.5 tons/hr	197,100 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Inside of Building/Dust Collectors	100.0%	0%	0.0%	0.02	0.00	1,3,5,6,10
Cement Hopper Bin 1 to FC-17,-18,-19,-20	22.5 tons/hr	197,100 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Inside of Building/Dust Collectors	100.0%	0%	0.0%	0.02	0.00	1,3,5,6,10
SC-2 to cement hopper 2	22.5 tons/hr	197,100 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Inside of Building/Dust Collectors	100.0%	0%	0.0%	0.02	0.00	1,3,5,6,10
Cement Hopper Bin 2 to FC-17,-18,-19,-20	22.5 tons/hr	197,100 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Inside of Building/Dust Collectors	100.0%	0%	0.0%	0.02	0.00	1,3,5,6,10
FC-17,-18,-19,-20 to Inline Mixers -17,-18,-19,-20	157.5 tons/hr	1,506,960 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Inside of Building/Dust Collectors	100.0%	0%	0.0%	0.14	0.03	1,3,5,6,10
Inline Mixers -17,-18,-19,-20 to BC -17,-18,-19,-20	157.5 tons/hr	1,506,960 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Inside of Building/Dust Collectors	100.0%	0%	0.0%	0.14	0.03	1,3,5,6,10
Pigment Mixing Area (indoor)	0.9 tons/hr	7884 tons/yr	Material Transfer Point	0.46 lb PM-10/ton	Enclosure/Dust Collectors	100.0%	0%	99.9%	1.81	0.41	7, 10
Unit 4 Total											
									2.60	0.59	
Emission Unit 5											
Reject Tile Crushing/Handling (outdoor)											
Primary Hopper	30 tons/hr	78,840 tons/yr	Uncrushed reject tile transfer	1.91E-04 lb PM-10/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.01	0.01	8, 10
Primary Hopper to BC-21	30 tons/hr	78,840 tons/yr	Uncrushed reject tile transfer	1.91E-04 lb PM-10/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.01	0.01	8, 10
BC-21 to BC-22	30 tons/hr	78,840 tons/yr	Uncrushed reject tile transfer	1.91E-04 lb PM-10/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.01	0.01	8, 10
BC-22 to Jaw Crusher	30 tons/hr	78,840 tons/yr	Uncrushed reject tile transfer	1.91E-04 lb PM-10/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.01	0.01	8, 10
Jaw Crusher	30 tons/hr	78,840 tons/yr	Crushing	2.40E-03 lb PM-10/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.09	0.07	9, 10
Jaw Crusher to BC-23	30 tons/hr	78,840 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.01	0.01	1, 10
BC-23 to VSI	30 tons/hr	78,840 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.01	0.01	1, 10
Vertical Shaft Impactor	30 tons/hr	78,840 tons/yr	Crushing	2.40E-03 lb PM-10/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.09	0.07	9, 10
VSI to BC-24	30 tons/hr	78,840 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.01	0.01	1, 10
Fine Material Loading Hopper	30 tons/hr	78,840 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.01	0.01	1, 10
Fine Hopper to BC-28	30 tons/hr	78,840 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.01	0.01	1, 10
BC-28 to BC-24	30 tons/hr	78,840 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.01	0.01	1, 10
BC-24 to Shaker Screen	30 tons/hr	78,840 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.01	0.01	1, 10
2-Deck Shaker Screen	30 tons/hr	78,840 tons/yr	Screening	8.70E-03 lb PM-10/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.34	0.26	2, 10
Shaker Screen to BC-25	30 tons/hr	78,840 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.01	0.01	1, 10
Shaker Screen to BC-26	30 tons/hr	78,840 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.01	0.01	1, 10
BC-25 to BC-23	30 tons/hr	78,840 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.01	0.01	1, 10
Unit 5 Total											
									0.64	0.49	

Source	Material Handling Capacities		Emission Type	Uncontrolled Emission Factor	Control Device (Shown for reference purposes and may not be credited in the PTE calculations as noted)	Fraction of Emissions Considered Uncollected for purposes of estimating PTE (i.e. directly emitted to atmosphere) (%)	Fraction of Collected Emissions (sent to a control device) (%)	Control Device Efficiency (%)	PM-10		Notes
	Hourly	Annual							Potential To Emit		
									(ton/yr)	(lb/hr)	
Emission Unit 6											
BC-26 to 100 Ton Crushed Material Hopper Bin	30 tons/hr	78.840 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Baghouse Filter	100.0%	0%	0.0%	0.01	0.01	1,10
100T Hopper to BC-27	30 tons/hr	78.840 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Dust Collector/Baghouse	100.0%	0%	0.0%	0.01	0.01	1,10
BC-27 to BC-5 (to Emission Unit 1)	30 tons/hr	78.840 tons/yr	Material Transfer Point	1.91E-04 lb PM-10/ton	Enclosure/Water Spray	100.0%	0%	0.0%	0.01	0.01	1,10
Unit 6 Total									0.02	0.02	

PM-10 Emissions Summary

Emission Unit	Potential To Emit	
	lbs/hr	tons/yr
Unit 1- Sand/Shale Receiving/Storage/Handling	1.00	1.54
Unit 2- Cement Storage Silo 1	0.01	0.03
Unit 3- Cement Storage Silo 2	0.01	0.03
Unit 4- Sand/Shale/Cement Mix & Pigment Mix Room	0.59	2.60
Unit 5- Reject Tile Recycle/Handling System	0.49	0.64
Unit 6- 100-Ton Bulk Crushed Tile Storage Bin	0.02	0.02
TOTAL	2	4.9

Notes:

1. U.S. EPA, AP-42, Section 13.2.4.3. Based on available wind speed data supplied by U.S. EPA, 4.19 mph average wind speed (from 1992 data for Tampa, FL). Assumes 6 percent moisture in sand and 11 percent moisture in shale as delivered.
2. U.S. EPA, AP-42, Section 11.19.2. Based on uncontrolled Screening emission factor for PM-10.
3. The actual quantity of material handled would typically be a total of sand and shale. However, the maximum emissions from either sand or shale (e.g. "worst case") was determined from the calculations for Emission Unit 1, and the amount recorded above as "Unit 1 Total". As can be seen, sand was highest, due to its lower moisture content, and the emission factor for sand was used in all further calculations.
4. U.S. EPA, AP-42, Section 11.12. Based on cement unloading to elevated storage silo.
5. Processes performed inside a building. Fifty percent of the particulate are assumed to be deposited to the floor of the building, and fifty percent released to the ambient air. However, for PTE estimates, no capture was credited.
6. 99.9 percent control for baghouse based on vendor specifications. However, for PTE estimates shown, no control credit was applied.
7. U.S. EPA, AP-42, Section 11.12. Based on the cement unloading to elevated storage silo uncontrolled emission factor due to pigment having a similar material consistency.
8. Emissions from uncrushed reject tiles considered negligible since reject tiles consist of large solid pieces.
9. U.S. EPA, AP-42, Section 11.19.2. Based on crushing emission factor for tertiary crushing.
10. For purposes of estimating uncontrolled PTE, only federally enforceable emission limits or controls are credited as indicated by the collection efficiency and control efficiency.

PM EMISSION RATE CALCULATIONS

Much of the emissions from the sources shown below are generally collected (such as by an enclosure or dust collector vent) and then sent to a control device (such as a baghouse). Therefore, the following emission calculations are conservative estimates of potential to emit and reflect higher emissions than are actually anticipated. The calculation of the PTE is based on a two part equation. The first part of the equation addresses emissions that are directly emitted to the atmosphere (i.e. uncollected and uncontrolled). The second part of the equation accounts for the portion of emissions that are collected and sent to a control device (if federally enforceable). The equation is as follows:
 $PTE = (PR \times EF \times UCE) + (PR \times EF \times (1-UCE) \times (1-CE))$

Where:
 PTE = Potential To Emit (lb/hr or tons/yr) --with control efficiency taken into account when a federally enforceable control limit applies
 PR = Process Rate (tons/hr or tons/yr)
 EF = Emission Factor
 UCE = Fraction of UnCollected Emissions that are emitted directly to the atmosphere
 1-UCE = Fraction of Collected Emissions that are ducted to a control device
 CE = Control Efficiency (where 1-CE is the fraction that passes through the control device)

An example of the application of this equation using the Emission Unit 1 Screen is as follows:
 PR = 1,112,760 tons/yr
 EF = 0.0250 lbs PM/ton (Uncontrolled emission factor from AP-42 for screening)
 UCE = 10% (assumes that 10% of the dust is directly emitted to the atmosphere with the remaining 90% being collected by a dust collector)
 CE = 99.9% (based on vendor specification for dust control through a baghouse filter)
 Therefore, PTE = (1,112,760 tons/yr x 0.025 lbs PM/ton x 10%) + (1,112,760 tons/yr x 0.025 lbs PM/ton x 90% x 0.01%)
 Or PTE of the Emission Unit 1 Screen is 1.40 tons of PM/yr

Source	Material Handling Capacities		Emission Type	Uncontrolled Emission Factor	Control Device (Shown for reference purposes and may not be credited in the PTE calculations as noted)	Fraction of Emissions Considered Uncollected for purposes of estimating PTE (i.e. directly emitted to atmosphere) (%)	Fraction of Collected Emissions (sent to a control device) (%)	Control Device Efficiency (%)	PM		Notes
	Hourly	Annual							Potential To Emit (ton/yr)	(lb/hr)	
Emission Unit 1											
Sand/Shale Delivery/Handling (underground or outdoor)											
Plaster Sand											
Truck Unloading to Grizzly (drive over hoppers)	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Enclosure/Water Spray	100%	0%	0.0%	0.24	0.16	1, 10
Hoppers to BC-1,-2,-3,-4	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Enclosure/Water Spray	100%	0%	0.0%	0.24	0.16	1, 10
BC-1,-1,-2,-4 to BC-5	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Enclosure/Water Spray	100%	0%	0.0%	0.24	0.16	1, 10
BC-5 to BC-6	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Enclosure/Water Spray	100%	0%	0.0%	0.24	0.16	1, 10
BC-6 to Screen	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Enclosure/Water Spray	100%	0%	0.0%	0.24	0.16	1, 10
Screening	384 tons/hr	1,182,600 tons/yr	Screening	2.50E-02 lb PM/ton	Dust Collector/Baghouse	10%	90%	99.9%	1.49	0.97	2, 10
Screen to BC-7	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Enclosure/Water Spray	100%	0%	0.0%	0.24	0.16	1, 10
BC-7 to 200T Bins	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Enclosure/Water Spray	100%	0%	0.0%	0.24	0.16	1, 10
200T Bins to BC-8	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Enclosure/Water Spray	100%	0%	0.0%	0.24	0.16	1, 10
BC-8 to BC-9,-10	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Enclosure/Water Spray	100%	0%	0.0%	0.24	0.16	1, 10
									3.64	2.37	
Shale											
Truck Unloading to Grizzly (drive over hoppers)	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	1.73E-04 lb PM/ton	Enclosure/Water Spray	100%	0%	0.0%	0.10	0.07	1, 10
Hoppers to BC-1,-2,-3,-4	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	1.73E-04 lb PM/ton	Enclosure/Water Spray	100%	0%	0.0%	0.10	0.07	1, 10
BC-1,-1,-2,-4 to BC-5	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	1.73E-04 lb PM/ton	Enclosure/Water Spray	100%	0%	0.0%	0.10	0.07	1, 10
BC-5 to BC-6	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	1.73E-04 lb PM/ton	Enclosure/Water Spray	100%	0%	0.0%	0.10	0.07	1, 10
BC-6 to Screen	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	1.73E-04 lb PM/ton	Enclosure/Water Spray	100%	0%	0.0%	0.10	0.07	1, 10
Screening	384 tons/hr	1,182,600 tons/yr	Screening	2.50E-02 lb PM/ton	Enclosure/Water Spray	10%	90%	99.9%	1.49	0.97	2, 10
Screen to BC-7	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	1.73E-04 lb PM/ton	Enclosure/Water Spray	100%	0%	0.0%	0.10	0.07	1, 10
BC-7 to 200T Bins	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	1.73E-04 lb PM/ton	Enclosure/Water Spray	100%	0%	0.0%	0.10	0.07	1, 10
200T Bins to BC-8	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	1.73E-04 lb PM/ton	Enclosure/Water Spray	100%	0%	0.0%	0.10	0.07	1, 10
BC-8 to BC-9,-10	384 tons/hr	1,182,600 tons/yr	Material Transfer Point	1.73E-04 lb PM/ton	Enclosure/Water Spray	100%	0%	0.0%	0.10	0.07	1, 10
									2.41	1.57	
Unit 1 Total									3.64	2.37	3

Source	Material Handling Capacities		Emission Type	Uncontrolled Emission Factor	Control Device (Shown for reference purposes and may not be credited in the PTE calculations as noted)	Fraction of Emissions Considered Uncollected for purposes of estimating PTE (i.e. directly emitted to atmosphere)	Fraction of Collected Emissions (sent to a control device)	Control Device Efficiency	PM		Notes
	Hourly	Annual							Potential To Emit		
	(ton/hr)	(tons/yr)							(ton/yr)	(lb/hr)	
Emission Units 2 & 3											
Cement Deliveries to Silos 1 and 2			Material Transfer Point	0.72 lb PM/ton	Silo w/ Baghouse	0%	100%	99.9%	0.05	0.01	4, 10
Cement Delivery to Silo 1	22.5 tons/hr	197,100 tons/yr	Material Transfer Point	0.72 lb PM/ton	Silo w/ Baghouse	0%	100%	99.9%	0.05	0.01	4, 10
Cement Delivery To Silo 2	22.5 tons/hr	197,100 tons/yr	Material Transfer Point	0.72 lb PM/ton	Silo w/ Baghouse	0%	100%	99.9%	0.05	0.01	4, 10
Units 2 & 3 Total											
Emission Unit 4											
Sand/Shale/Cement Mixing Area (indoor)											
BC-9 to sand/shale hopper bin 1	135 tons/hr	1,112,760 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Inside of Building	100.0%	0%	0.0%	0.22	0.05	1,3,5,10
Sand/Shale Hopper Bin 1 to FC-17,-18,-19,-20	135 tons/hr	1,112,760 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Inside of Building	100.0%	0%	0.0%	0.22	0.05	1,3,5,10
BC-10 to sand/shale hopper bin 2	135 tons/hr	1,112,760 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Inside of Building	100.0%	0%	0.0%	0.22	0.05	1,3,5,10
Sand/Shale Hopper Bin 2 to FCB-17,-18,-19,-20	135 tons/hr	1,112,760 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Inside of Building	100.0%	0%	0.0%	0.22	0.05	1,3,5,10
SC-1 to cement hopper 1	22.5 tons/hr	197,100 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Inside of Building/Dust Collectors	100.0%	0%	0.0%	0.04	0.01	1,3,5,6,10
Cement Hopper Bin 1 to FC-17,-18,-19,-20	22.5 tons/hr	197,100 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Inside of Building/Dust Collectors	100.0%	0%	0.0%	0.04	0.01	1,3,5,6,10
SC-2 to cement hopper 2	22.5 tons/hr	197,100 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Inside of Building/Dust Collectors	100.0%	0%	0.0%	0.04	0.01	1,3,5,6,10
Cement Hopper Bin 2 to FC-17,-18,-19,-20	22.5 tons/hr	197,100 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Inside of Building/Dust Collectors	100.0%	0%	0.0%	0.04	0.01	1,3,5,6,10
FC-17,-18,-19,-20 to Inline Mixers -17,-18,-19,-20	157.5 tons/hr	1,506,960 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Inside of Building/Dust Collectors	100.0%	0%	0.0%	0.30	0.06	1,3,5,6,10
Inline Mixers -17,-18,-19,-20 to BC -17,-18,-19,-20	157.5 tons/hr	1,506,960 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Inside of Building/Dust Collectors	100.0%	0%	0.0%	0.30	0.06	1,3,5,6,10
Pigment Mixing Area (indoor)											
	0.9 tons/hr	7884 tons/yr	Material Transfer Point	0.72 lb PM/ton	Enclosure/Dust Collectors	100.0%	0%	99.9%	2.84	0.55	7,10
Unit 4 Total											
									4.51	1.03	
Emission Unit 5											
Reject Tile Crushing/Handling (outdoor)											
Primary Hopper	30 tons/hr	78,840 tons/yr	Uncrushed reject tile transfer	4.04E-04 lb PM/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.02	0.01	8,10
Primary Hopper to BC-21	30 tons/hr	78,840 tons/yr	Uncrushed reject tile transfer	4.04E-04 lb PM/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.02	0.01	8,10
BC-21 to BC-22	30 tons/hr	78,840 tons/yr	Uncrushed reject tile transfer	4.04E-04 lb PM/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.02	0.01	8,10
BC-22 to Jaw Crusher	30 tons/hr	78,840 tons/yr	Uncrushed reject tile transfer	4.04E-04 lb PM/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.02	0.01	8,10
Jaw Crusher	30 tons/hr	78,840 tons/yr	Crushing	5.40E-03 lb PM/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.21	0.16	9,10
Jaw Crusher to BC-23	30 tons/hr	78,840 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.02	0.01	1,10
BC-23 to VSI	30 tons/hr	78,840 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.02	0.01	1,10
Vertical Shaft Impactor	30 tons/hr	78,840 tons/yr	Crushing	5.40E-03 lb PM/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.21	0.16	9,10
VSI to BC-24	30 tons/hr	78,840 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.02	0.01	1,10
Fine Material Loading Hopper	30 tons/hr	78,840 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.02	0.01	1,10
Fine Hopper to BC-28	30 tons/hr	78,840 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.02	0.01	1,10
BC-28 to BC-24	30 tons/hr	78,840 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.02	0.01	1,10
BC-24 to Shaker Screen	30 tons/hr	78,840 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.02	0.01	1,10
2-Deck Staker Screen	30 tons/hr	78,840 tons/yr	Screening	2.50E-02 lb PM/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.99	0.75	2,10
Shaker Screen to BC-25	30 tons/hr	78,840 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.02	0.01	1,10
Shaker Screen to BC-26	30 tons/hr	78,840 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.02	0.01	1,10
BC-25 to BC-23	30 tons/hr	78,840 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.02	0.01	1,10
Unit 5 Total											
									1.63	1.24	

Source	Material Handling Capacities		Emission Type	Uncontrolled Emission Factor	Control Device (Shown for reference purposes and may not be credited in the PTE calculations as noted)	Fraction of Emissions Considered Uncollected for purposes of estimating PTE (i.e. directly emitted to atmosphere) (%)	Fraction of Collected Emissions (sent to a control device) (%)	Control Device Efficiency (%)	PM		Notes
	Hourly	Annual							Potential To Emit (ton/yr)	Potential To Emit (lb/hr)	
Emission Unit 6											
BC-26 to 100 Ton Crushed Material Hopper Bin	30 tons/hr	78,840 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Baghouse Filter	100.0%	0%	0.0%	0.02	0.01	1,10
100T Hopper to BC-27	30 tons/hr	78,840 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Dust Collector/baghouse	100.0%	0%	0.0%	0.02	0.01	1,10
BC-27 to BC-5 (to Emission Unit 1)	30 tons/hr	78,840 tons/yr	Material Transfer Point	4.04E-04 lb PM/ton	Enclosure/Water Spray	100.0%	0%	0.0%	0.02	0.01	1,10
Unit 6 Total									0.05	0.04	

PM Emissions Summary

Emission Unit	Potential To Emit	
	lbs/hr	tons/yr
Unit 1- Sand/Shale Receiving/Storage/Handling	2.37	3.64
Unit 2- Cement Storage Silo 1	0.01	0.05
Unit 3- Cement Storage Silo 2	0.01	0.05
Unit 4- Sand/Shale/Cement Mix & Pigment Mix Room	1.03	4.51
Unit 5- Reject Tile Recycle/Handling System	1.24	1.63
Unit 6- 100-Ton Bulk Crushed Tile Storage Bin	0.04	0.05
TOTAL	5	9.9

Notes:

- U.S. EPA, AP-42, Section 13.2.4.3. Based on available wind speed data supplied by U.S. EPA, 4.19 mph average wind speed (from 1992 data for Tampa, FL). Assumes 6 percent moisture in sand and 11 percent moisture in shale as delivered.
- U.S. EPA, AP-42, Section 11.19.2. Based on uncontrolled Screening emission factor for PM.
- The actual quantity of material handled would typically be a total of sand and shale. However, the maximum emissions from either sand or shale (e.g. "worst case") was determined from the calculations for Emission Unit 1, and the amount recorded above as "Unit 1 Total". As can be seen, sand was highest, due to its lower moisture content, and the emission factor for sand was used in all further calculations.
- U.S. EPA, AP-42, Section 11.12. Based on cement unloading to elevated storage silo.
- Processes performed inside a building. Fifty percent of the particulate are assumed to be deposited to the floor of the building, and fifty percent released to the ambient air. However, for PTE estimates, no capture was credited.
- 99.9 percent control for baghouse based on vendor specifications. However, for PTE estimates shown, no control credit was applied.
- U.S. EPA, AP-42, Section 11.12. Based on the cement unloading to elevated storage silo uncontrolled emission factor due to pigment having a similar material consistency.
- Emissions from uncrushed reject tiles considered negligible since reject tiles consist of large solid pieces.
- U.S. EPA, AP-42, Section 11.19.2. Based on crushing emission factor for tertiary crushing.
- For purposes of estimating uncontrolled PTE, only federally enforceable emission limits or controls are credited as indicated by the collection efficiency and control efficiency.

Sand/Shale, Cement/Fly Ash and Pigment Material Quantifications**Tile Manufacturing Data**

150 Maximum line speed production rate (tiles/minute)
 4 production lines
 24 Maximum operating time (hrs/day)
 365 Maximum operating time (day/yr)
 10 lbs/tile
 25% Percent Wt. as Cement/Fly Ash
 75% Percent Wt. as Sand/Shale
 0.005 pound pigment per pound tile
 5% Maximum percent of anticipated reject tiles (typical range is 1 to 3%)

Cement Silo Filling Data

20 minutes per cement delivery
 26 tons cement per delivery
 0.77 minutes cement silo baghouse operation per ton cement
 1.54 minutes cement silo baghouse operation per ton cement for 2 Silos with baghouses

The following calculated values were derived based on the maximum potential operations which are limited to the maximum tile production line speed
 This speed is based on the physical limits of the system.

Cement Material Quantification

1500 lbs cement/minute
 90000 lbs cement/hr
 45 tons cement/hr
 394200 tons cement/yr

Sand Material Quantification (at Unit 4)

4500 lbs sand/minute
 270000 lbs sand/hr
 135 tons sand/hr
 1182600 tons sand/yr

Sand Material Quantification (at Unit 1)

No more sand would be conveyed to the storage bins than is used in the process at max operation as calculated above
 1182600 tons sand/yr

The Unit 1 conveying system will be capable of handling more sand on a short term basis than the production requires. Therefore, it will operate intermittently as needed.

For Max hourly emissions, the max conveyor capacity was used

384 tons sand/hr

Pigment Quantification

1800 lbs/hr
 0.9 tons/hr
 7884 tons/yr

Reject Tiles (Unit 8)

The tile recycling system will operate intermittently when sufficient reject tile quantity is available to warrant running the crushers and screen
 Therefore, max hourly rate is based on the physical limits of the VSI crusher since it is the slowest operation in the system

30 ton/hr maximum system capacity
 78840 ton/yr (based on 5% maximum reject tile quantity)

Mold Oil Quantification

0.0093 lb/tile average oil usage

Tile Production

32,400 Field Tiles Produced/hr
 3,600 Trim Tiles Produced/hr
 777,600 Field Tiles Produced/day
 86,400 Trim Tiles Produced/day
 283,824,000 Field Tiles/year
 31,536,000 Trim Tiles/year
 315,360,000 Tiles produced/year

Pigment Usage

Based on a high production month at a six line facility, Pigment use is estimated as follows:

April '04

47245

474760

278630

298430

52910

1,151,975 FeO₂ total 6 lines per month
16.00 tons FeO₂ per day

79350 TiO₂ total 6 lines per month
1.10 tons FeO₂ per day

1,231,325 total april 04 pigment use

41,044.17 total estimated sck pigment use per day (lbs) at 150 & 24 hr

20.52 total estimated sck pigment use per day (tons) at 150 & 24 hr

21 tons per day pigment - through color

Mold Oil Usage

Mold Oil Calculation Basis:

32,400 Field Tiles Produced/hr
 3,600 Trim Tiles Produced/hr
 777,600 Field Tiles Produced/day
 86,400 Trim Tiles Produced/day
 283,824,000 Field Tiles/year
 31,536,000 Trim Tiles/year
 315,360,000 Total Tiles Produced/year
 0.0093 lb/tile average oil usage

Estimated Emissions from Mold Oil Usage

Mold Oil	Pollutant	Avg. Mold Oil Usage	VOC Content (%)	Emission Rate		
				lb/hr	lb/yr	ton/yr
E-46, E-48 or E-50 *	VOC	0.0093 lb/tile	0.53%	1.582	13,858	6.93
Eagle Blend #3 **	VOC	0.0093 lb/tile	0.92%	0.31	2,698	1.35
Total:				1.89	16,556	8.28

Note:

* Eagle Blend #3 Oil is used for trim tiles only.

** E-46, E-48 and/or E-50 Oil is used for field tiles only. Please note that the VOC content shown for these three mold oils is for E-46, and is the highest VOC content of the three.

MISCELLANEOUS PROJECT-RELATED EMISSION CALCULATIONS

(1) Estimated Propane Gas Use in Curing Enclosures:

240 cf/hr burner rating
 600 Equivalent Natural Gas Volume (cf/hr)
 4 Production Lines
 10 Burners/line
 24 hr/day
 365 day/yr
 210.24 MMCF/yr (NG)
 1,020 MMBTU/MMCF (NG)
 214,445 MMBTU/yr (NG) 24.48

(2) Estimated Emission Rates for Curing Enclosures:

Pollutant	Emission Factor ¹	Emission Rate			Reference
		lb/hr	lb/yr	ton/yr	
VOC	7 lb/MMCF	0.168	1471.68	0.74	2
NOx	0.014 lb/MMBTU	0.343	3,002.23	1.50	3
SOx	0.83 lb/MMCF	0.020	174.4992	0.09	2
CO	35 lb/MMCF	0.840	7358.4	3.68	2
PM	7.5 lb/MMCF	0.180	1576.8	0.79	2
Benzene	0.008 lb/MMCF	0.000	1.68192	0.00	2
Formaldehyde	0.017 lb/MMCF	0.000	3.57408	0.00	2
PAH	0.0004 lb/MMCF	0.000	0.084096	0.00	2

Notes:

- (1) Emissions for Propane are assumed to be equivalent to Natural Gas using the equivalent volume of natural gas to obtain the same energy quantity.
- (2) South Coast Air Quality Management District, 2002. Default Emission Factors for Natural Gas Combustion.
- (3) Burner-specific emission rate, based on emission testing performed at Burlingame Industries' Rialto, California site.

(3) VOC Emissions from Use of Acrylic Sealer

VOC Content (Including Acetone) 0.0049 lbs/gal
 2-Ethylhexyl acrylate content in acrylic sealer 0.02 percent
 Tile Production Rate per Line 150 per minute
 Production Lines 4
 Sealer Used per Tile 5 grams
 Estimated Peak Daily VOC Emission Rate 0.23 lb/hr
 Estimated Peak Daily 2-ethylhexyl Emission Rate 0.08 lb/hr
 Estimated Annual VOC Emission Rate 2020 lb/yr
 Estimated Annual VOC Emission Rate 1.01 ton/yr
 Estimated Annual 2-ethylhexyl Emission Rate 695 lb/yr
 Estimated Annual 2-ethylhexyl Emission Rate 0.35 ton/yr

Storage Tanks

Assessment of the bulk material storage tanks

There will be 4 tanks as follows:

Tanks 1-2 Mold Release Oil (E-46)
Tank 3 Calcium Chloride
Tank 4 Acrylic Sealer tank

The tanks will be vertical fixed roof tanks with approximately 8,000 gallons each.

Tanks 1-2 containing the E-46 mold oil will have negligible emissions due to extremely low vapor pressure and VOC content of the oil.

Tank 3 does not contain a material considered to be a regulated compound for purposes of air quality emissions.

Tank 4 containing the acrylic sealer has an organic compound considered a VOC (2-ethylhexyl acrylate).

This has been evaluated with the EPA TANKS v4.0.9 modeling program as summarized below:

15.25 Shell Height (ft)
10 diameter (ft)
13.75 max liquid ht (ft)
7.5 avg liquid ht (ft)
8078 working volume (gal)
75 turnovers/yr
600,000 throughput (gal/yr)
Grey/medium Color Shade
10 Default dome radius
-0.03/0.03 Default vacuum settings
Partial speciation of ethylhexyl acrylate was assessed
0.01 % of Ethylhexyl acrylate (per MSDS-see attachment 4)
0.12 Organic content partial pressure (mmHG at 20C)

The Tanks output is as follows:

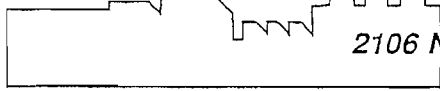
3.46 Working Loss (lbs/yr)
6.198 Breathing Loss (lbs/yr)
9.65 Total (lbs/yr)



ATTACHMENT 3

Test Reports as required by Construction Permit

ACE
AIR CONSULTING
& ENGINEERING, INC.



2106 N.W. 67th Place • Suite 4 • Gainesville, Florida • 32653
(352) 335-1889 FAX (352) 335-1891

April 16, 2007

EU 001

Mr. Gary Manlove
Eagle Roofing Products Florida LLC
1575 East County Road 470
Sumterville, Florida 33585

Dear Mr. Manlove:

On April 4-5, 2007 Air Consulting and Engineering, Inc. (ACE) conducted visible emission testing on several emission points of the Sand and Shale Receiving and Handling System (EU001) located at Eagle Roofing Products Florida LLC in Sumterville, Florida.

Testing was conducted using FDEP Method 9 to demonstrate compliance with permit conditions (1190045-001-AC).

Table 1 summarizes the opacity readings. Visible Emissions from all sources averaged 0.0% opacity for the highest six-minute period of the tests. Permitted opacity is 10%.

The average throughput during the test was 197.40 tons per hour (TPH) of aggregates and 212.31 TPH of shale.

Enclosed are our VE data sheet, observer's certification and production data.

Please contact me if further information is required. Please send a copy of the report to the following FDEP office by May 18, 2007:

Mr. Christopher Bradley
Florida Department of
Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, Florida 33637-0926

Respectfully,

AIR CONSULTING AND ENGINEERING, INC.

Dagmar Fick
Staff Engineer

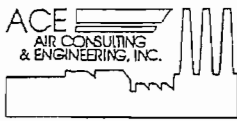
ACE File: 546 07 03

RECEIVED OCT 24 2007

Table 1. Visible Emission Summary
 Eagle Roofing Products Florida LLC
 Sumpterville, Florida
 April 4-5, 2007

Time	Date	Emission Unit	Source	Opacity %	Permitted Opacity %
1428-1759	4/5/2007	1	Hoppers 1, 2, 3 to BC-1	0.0	10
0805-1325	4/5/2007	2	Hoppers 4, 5, 6 to BC-2	0.0	10
1011-1407	4/4/2007	3	Hoppers 7, 8, 9 drop to BC-3	0.0	10
0823-1118	4/4/2007	4	Hoppers 10, 11, 12 to BC-4	0.0	10
1428-1759	4/5/2007	5	BC-1 Conveyor Drop to BC-5	0.0	10
0805-1325	4/5/2007	6	BC-2 Conveyor Drop to BC-5	0.0	10
1011-1407	4/4/2007	7	BC-3 Convryor Drop to BC-5	0.0	10
0823-1118	4/4/2007	8	BC-4 Conveyor Drop to BC-5	0.0	10
0921-1310	4/4/2007	9	BC-5 Conveyor Drop to BC-6	0.0	10
0921-1310	4/4/2007	10	BC-6 to BC-7 Screen Strucrure	0.0	10
0805-1325	4/5/2007	11	BC-7 to 200 Ton Storage Bin	0.0	10
1315-1415	4/4/2007	12	200 Ton Storage Bin to BC-9	0.0	10
1315-1415	4/4/2007	13	200 Ton Storage Bin to BC-10	0.0	10

Note: EU 14 was not in operation yet



VISIBLE EMISSION OBSERVATION FORM

START TIME		END TIME																																																																																																																																																																		
0823		11:18																																																																																																																																																																		
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	1	0	0	0	0	31	0	0		0	0	2	0	0	0	0	32	0	0	0	0	3	0	0	0	0	33	0	0	0	0	34	0	0	0	0	35	0	0	0	0	36	0	0	0	0	37	0	0	0	0	38	0	0	0	0	39	0	0	0	0	40	0	0	0	0	41	0	0	0	0	42	0	0	0	0	43	0	0	0	0	44	0	0	0	0	45	0	0	0	0	46	0	0	0	0	47	0	0	0	0	48	0	0	0	0	49	0	0	0	0	50	0	0	0	0	51	0	0	0	0	52	0	0	0	0	53	0	0	0	0	54	0	0	0	0	55	0	0	0	0	56	0	0	0	0	57	0	0	0	0	58	0	0	0	0	59	0	0	0	0	60	0	0

COMPANY NAME Eagle Roofing

SOURCE BC-4 drop to BC-5

ADDRESS 1575 E. County Rd. 470

CITY Santerville STATE FL ZIP 33585

PHONE _____ SOURCE ID NO. E.U.-8

PROCESS Belt drop to belt OPERATING MODE 212.31 tons/hr W-10

CONTROL EQUIPMENT _____ OPERATING MODE _____

DESCRIBE EMISSION POINT Sand column between belts

HEIGHT OF EMISSION POINT START -10' END -10' HEIGHT RELATIVE TO OBSERVER START 4' END 4'

DISTANCE TO EMISSION POINT START 10' END 10' DIRECTION TO EM. PT. (DEGREES) START 246° END 248°

VERTICAL ANGLE TO OBS. PT. START -10° END -10° DIRECTION TO OBS. PT. (DEGREES) START 246° END 246°

DISTANCE AND DIRECTION TO OBS. PT. FROM EM. PT. START Same point END Same point

DESCRIBE EMISSIONS START None END None

EMISSION COLOR START _____ END _____ WATER DROPLET PLUME NONE

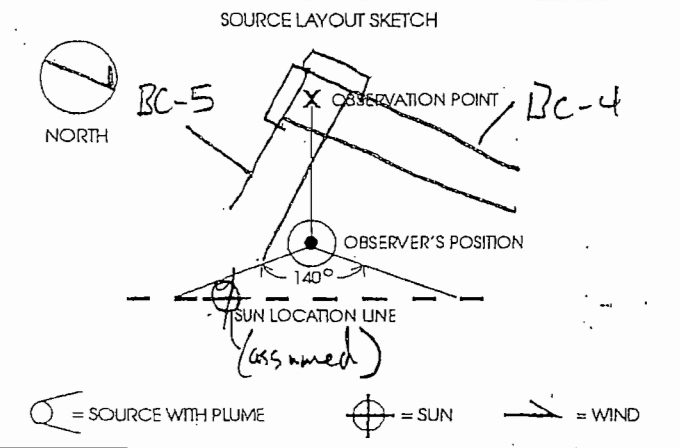
ATTACHED _____ DETACHED _____

DESCRIBE PLUME BACKGROUND START Concrete wall END Same

BACKGROUND COLOR START Gray END Gray SKY CONDITIONS START Inside END Inside

WIND SPEED START _____ END _____ WIND DIRECTION START _____ END _____

AMBIENT TEMPERATURE START 74 END 74 WET BULB TEMP. Digital %RH 77



OBSERVER'S NAME (PRINT) Joshua Selston

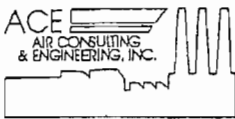
OBSERVER'S SIGNATURE [Signature] DATE 4/4/07

ORGANIZATION Air Consulting & Engineering

CERTIFIED BY Eastern Technical Assoc. DATE 1/07

COMMENTS Stopped 48.45. Restart 11:07.

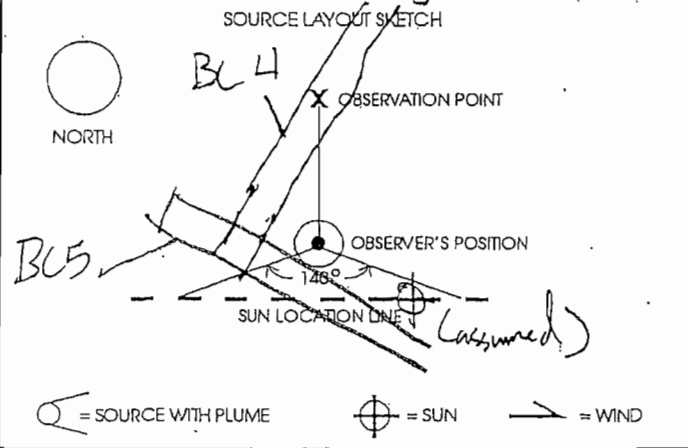
EP-8



VISIBLE EMISSION OBSERVATION FORM

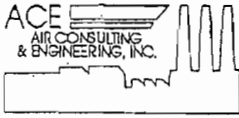
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OBSERVATION DATE: 4/4/07		TIME ZONE: ED		PAGE: 1		OF: 1			
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MIN					MIN				
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8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

COMPANY NAME: Eagle Roofing
 SOURCE: Hoppers 13, 14, 15, 16 to BC-4
 ADDRESS: 1575 E. County Rd 470
 CITY: Sumterville STATE: FL ZIP: 33585
 PHONE: SOURCE ID NO.: EU-4
 PROCESS: Hopper drop point OPERATING MODE: 212.31 ton/hr
 CONTROL EQUIPMENT: None OPERATING MODE: W-10
 DESCRIBE EMISSION POINT: Hopper (14B, 15A) Sand column below operating
 HEIGHT OF EMISSION POINT: START 8' END 8' HEIGHT RELATIVE TO OBSERVER: START 6' END 6'
 DISTANCE TO EMISSION POINT: START 10' END 15' DIRECTION TO EM. PT. (DEGREES): START 290° END 304°
 VERTICAL ANGLE TO OBS. PT.: START 0° END 0° DIRECTION TO OBS. PT. (DEGREES): START Same END Same
 DISTANCE AND DIRECTION TO OBS. PT. FROM EM. PT.: START Same Pt. END Same Pt.
 DESCRIBE EMISSIONS: START None observed END None observed
 EMISSION COLOR: START - END - WATER DROPLET PLUME: NONE
 DESCRIBE PLUME BACKGROUND: START Metal girder END Same
 BACKGROUND COLOR: START Gray END Gray SKY CONDITIONS: START Inside END Inside
 WIND SPEED: START - END - WIND DIRECTION: START - END -
 AMBIENT TEMPERATURE: START 74 END 74 WET BULB TEMP.: Digital %RH: 77



OBSERVER'S NAME (PRINT): Joshua Gelston
 OBSERVER'S SIGNATURE: [Signature] DATE: 4.4.07
 ORGANIZATION: Air Consulting & Engineering
 CERTIFIED BY: Eastern Technical Assoc. DATE: 4/1/07
 COMMENTS: Started in silo 14B. Switched to 15A @ 32:15. Stop @ 45. Restart 11:07.

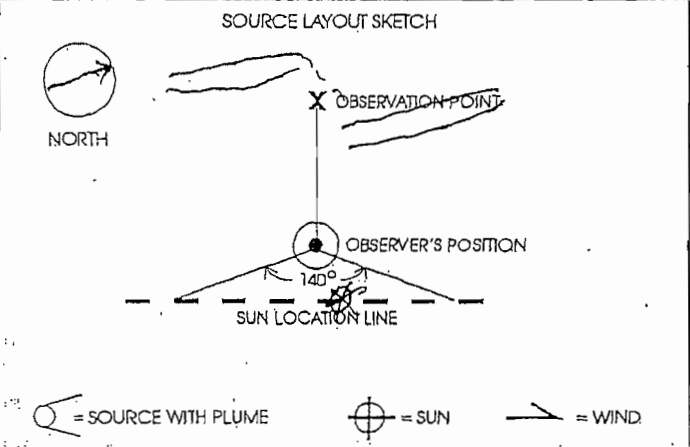
H-4 14B



VISIBLE EMISSION OBSERVATION FORM

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0921		1310							
OBSERVATION DATE		TIME ZONE		PAGE				OF	
4-4-07		EDST		1				1	
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27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

COMPANY NAME Eagle Roofing
 SOURCE BC-5 to BC-6 drop point
 ADDRESS 1575 E. C.R. 470
 CITY Sumterville STATE FL. ZIP 33585
 PHONE _____ SOURCE ID NO. EU #9
 PROCESS CONVEYOR Belt OPERATING MODE NORMAL
 CONTROL EQUIPMENT N/A OPERATING MODE N/A
 DESCRIBE EMISSION POINT Dropoff between two conveyor belts
 HEIGHT OF EMISSION POINT _____ HEIGHT RELATIVE TO OBSERVER
 START ~12' END SAME START 8' END SAME
 DISTANCE TO EMISSION POINT _____ DIRECTION TO EM. PT. (DEGREES)
 START ~110' END SAME START ~284° END SAME
 VERTICAL ANGLE TO OBS. PT. _____ DIRECTION TO OBS. PT. (DEGREES)
 START ~3° END SAME START ~284° END SAME
 DISTANCE AND DIRECTION TO OBS. PT. FROM EM. PT.
 START Both SAME END Both SAME
 DESCRIBE EMISSIONS
 START NONE END SAME
 EMISSION COLOR _____ WATER DROPLET PLUME (NONE)
 START NONE END SAME ATTACHED _____ DETACHED _____
 DESCRIBE PLUME BACKGROUND
 START Blk END SAME
 BACKGROUND COLOR _____ SKY CONDITIONS
 START GRAY END SAME START SCAT END SAME
 WIND SPEED _____ WIND DIRECTION
 START Caln END SAME START VAR END SAME
 AMBIENT TEMPERATURE _____ WET BULB TEMP. _____ %RH _____
 START 68 END 83 65 85



OBSERVER'S NAME (PRINT) CHARLES RESHARD
 OBSERVER'S SIGNATURE Charles Reshard DATE 4-4-07
 ORGANIZATION AIR CONSULTING + ENGR.
 CERTIFIED BY E.T.A. DATE 2-07
 COMMENTS NO ODORS
EP-9

Stopped @ 0932, Resume @ 1010, 1039 Stopped Resume 1250

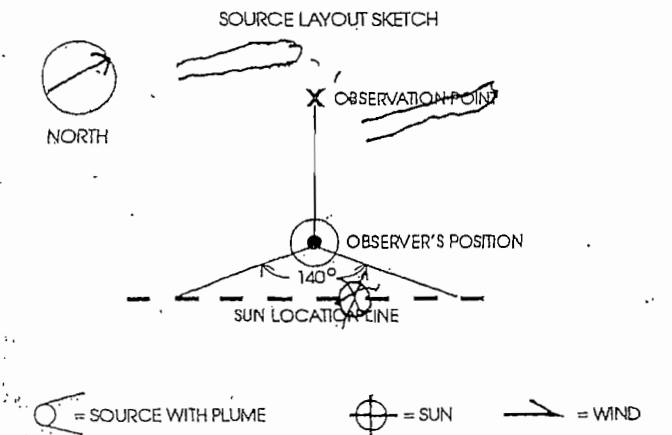


VISIBLE EMISSION OBSERVATION FORM

START TIME: 0921 END TIME: 1310
 OBSERVATION DATE: 4-4-07 TIMEZONE: EDT PAGE 1 OF 1

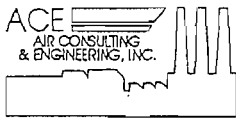
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28	0	0	0	0	0	58	0	0	0	0	0
29	0	0	0	0	0	59	0	0	0	0	0
30	0	0	0	0	0	60	0	0	0	0	0

COMPANY NAME Eagle Roofing
 SOURCE BC-6 to BC-7 screen structure
 ADDRESS 1575 E. C.R. 470
 CITY Sumterville STATE FL. ZIP 33585
 PHONE _____ SOURCE ID NO. EU # 10
 PROCESS Conveyor Belt OPERATING MODE NORMAL
 CONTROL EQUIPMENT N/A OPERATING MODE N/A
 DESCRIBE EMISSION POINT Dropoff between two conveyor belts
 HEIGHT OF EMISSION POINT HEIGHT RELATIVE TO OBSERVER
 START ~18' END SAME START ~14' END SAME
 DISTANCE TO EMISSION POINT DIRECTION TO EM. PT. (DEGREES)
 START ~50' END SAME START ~293° END SAME
 VERTICAL ANGLE TO OBS. PT. DIRECTION TO OBS. PT. (DEGREES)
 START ~17° END SAME START ~293 END SAME
 DISTANCE AND DIRECTION TO OBS. PT. FROM EM. PT.
 START Both SAME END SAME
 DESCRIBE EMISSIONS
 START NONE END SAME
 EMISSION COLOR WATER DROPLET PLUME NONE
 START NONE END SAME ATTACHED DETACHED
 DESCRIBE PLUME BACKGROUND
 START Clouds END SAME
 BACKGROUND COLOR SKY CONDITIONS
 START GRAY END SAME START Scat END SAME
 WIND SPEED WIND DIRECTION
 START CALM END SAME START VAR END SAME
 AMBIENT TEMPERATURE WET BULB TEMP. %RH
 START 68 END 83 65 85



OBSERVER'S NAME (PRINT) CHARLES RESHARD
 OBSERVER'S SIGNATURE Charles Reshard DATE 4-4-07
 ORGANIZATION AIR CONSULTING + ENG.
 CERTIFIED BY E.T.A. DATE 2-07
 COMMENTS NO ODORS
EP-10

stopped @ 0932, Resume @ 1010, 1039 stopped, Resume 1250

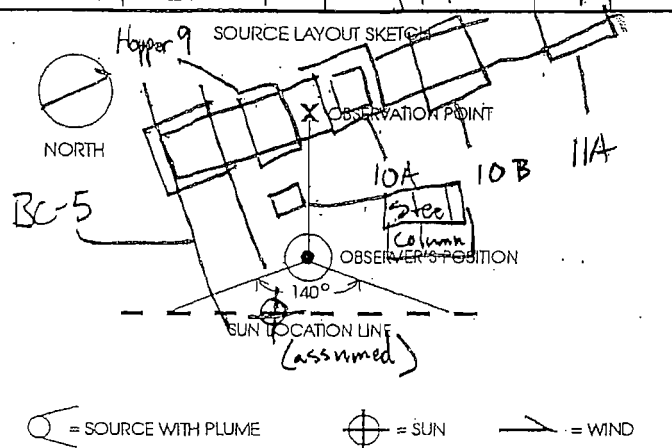


VISIBLE EMISSION OBSERVATION FORM

START TIME 10:01 END TIME 1407
 OBSERVATION DATE 4-4-07 TIME ZONE EST PAGE 1 OF 1

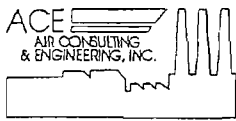
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COMPANY NAME Egale Roofing
 SOURCE Hoppers 9 & 2 drops to BC-3
 ADDRESS 1575 E. County Rd 470
 CITY Sumterville STATE FL ZIP 33585
 PHONE _____ SOURCE ID NO. EU #3
 PROCESS Hopper drop to belt OPERATING MODE 197,40 tons/hr sand
 CONTROL EQUIPMENT None OPERATING MODE _____
 DESCRIBE EMISSION POINT Sand column below operating hopper 10A
 HEIGHT OF EMISSION POINT START 8' END 8' HEIGHT RELATIVE TO OBSERVER START 6' END 6'
 DISTANCE TO EMISSION POINT START 10' END 10' DIRECTION TO EM. PT. (DEGREES) START 290° END 290°
 VERTICAL ANGLE TO OBS. PT. START 0° END 0° DIRECTION TO OBS. PT. (DEGREES) START Same pt END Same pt
 DISTANCE AND DIRECTION TO OBS. PT. FROM EM. PT. START Same pt END Same pt
 DESCRIBE EMISSIONS START None observed END None observed
 EMISSION COLOR START _____ END _____ WATER DROPLET PLUME NONE
 ATTACHED _____ DETACHED _____
 DESCRIBE PLUME BACKGROUND START Metal girder END Metal girder
 BACKGROUND COLOR START Grey END Gray SKY CONDITIONS START Inside END Inside
 WIND SPEED START _____ END _____ WIND DIRECTION START _____ END _____
 AMBIENT TEMPERATURE START 74 END 74 WET BULB TEMP. Digital %RH 74



OBSERVER'S NAME (PRINT) Joshua Gelston
 OBSERVER'S SIGNATURE [Signature] DATE 4-4-07
 ORGANIZATION Air Consulting & Engineering
 CERTIFIED BY Eastern Technical Assoc. DATE 1/07
 COMMENTS Stopped 1039; Restart 12:50 Stopped 1430; Restart 1405.

BC-3 → 10A
 EP-3



VISIBLE EMISSION OBSERVATION FORM

START TIME		END TIME									
1011		1407									
OBSERVATION DATE		TIME ZONE				PAGE					
4-4-07		EDT				1 OF 1					
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28	0	0	0	0	0	58	0	0	0	0	0
29	0	0	0	0	0	59	0	0	0	0	0
30	0	0	0	0	0	60	0	0	0	0	0

COMPANY NAME Eagle Roofing

SOURCE BC-3 Drop to BC-5

ADDRESS 1575 E. County Road 470

CITY Sumterville STATE FL ZIP _____

PHONE _____ SOURCE ID NO. EU #7

PROCESS Belt drop to belt OPERATING MODE Sand @ 197.40 tph

CONTROL EQUIPMENT _____ OPERATING MODE _____

DESCRIBE EMISSION POINT Sand column between belts

HEIGHT OF EMISSION POINT / START -10 END -10 HEIGHT RELATIVE TO OBSERVER START 4 END 4

DISTANCE TO EMISSION POINT / START 10 END 10 DIRECTION TO EM. PT. (DEGREES) START 248 END 248

VERTICAL ANGLE TO OBS. PT. / START -10 END -10 DIRECTION TO OBS. PT. (DEGREES) START 248 END 248

DISTANCE AND DIRECTION TO OBS. PT. FROM EM. PT. / START Same pt END Same pt

DESCRIBE EMISSIONS / START None END None

EMISSION COLOR / START _____ END _____ WATER DROPLET PLUME: NONE

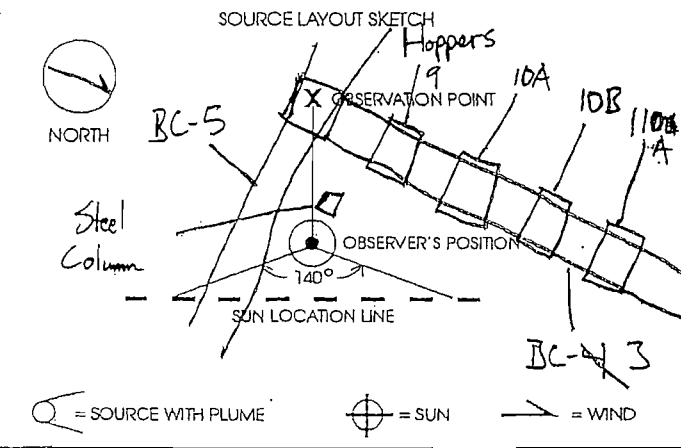
ATTACHED _____ DETACHED _____

DESCRIBE PLUME BACKGROUND / START Concrete wall END Same

BACKGROUND COLOR / START Grey END Grey SKY CONDITIONS / START Inside END Inside

WIND SPEED / START _____ END _____ WIND DIRECTION / START _____ END _____

AMBIENT TEMPERATURE / START 74 END 74 WET BULB TEMP. Digital %RH 74



OBSERVER'S NAME (PRINT) Joshua Spiston

OBSERVER'S SIGNATURE [Signature] DATE 4-4-07

ORGANIZATION Air Consulting & Engineering

CERTIFIED BY Eastern Technical Assoc. DATE 4/07

COMMENTS Stopped 10:39; Restart 17:50; stop 18:20; Restart 1405.

BC-3 → BC-5

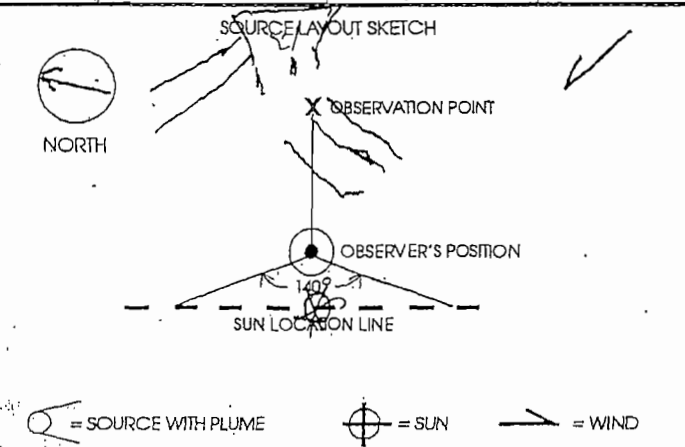
EP-7



VISIBLE EMISSION OBSERVATION FORM

START TIME		END TIME									
1315		1415									
OBSERVATION DATE		TIME ZONE		PAGE		OF					
4-4-07				1		1					
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6	0	0	0	0	0	36	0	0	0	0	0
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17	0	0	0	0	0	47	0	0	0	0	0
18	0	0	0	0	0	48	0	0	0	0	0
19	0	0	0	0	0	49	0	0	0	0	0
20	0	0	0	0	0	50	0	0	0	0	0
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22	0	0	0	0	0	52	0	0	0	0	0
23	0	0	0	0	0	53	0	0	0	0	0
24	0	0	0	0	0	54	0	0	0	0	0
25	0	0	0	0	0	55	0	0	0	0	0
26	0	0	0	0	0	56	0	0	0	0	0
27	0	0	0	0	0	57	0	0	0	0	0
28	0	0	0	0	0	58	0	0	0	0	0
29	0	0	0	0	0	59	0	0	0	0	0
30	0	0	0	0	0	60	0	0	0	0	0

COMPANY NAME Eagle Roofing Products
 SOURCE 200 ton Storage Bin to BC-9
 ADDRESS 1575 E. C.R. 470
 CITY Sumterville STATE FL. ZIP 33585
 PHONE _____ SOURCE ID NO. EU #12
 PROCESS CONVEYOR belt OPERATING MODE NORMAL
 CONTROL EQUIPMENT N/A OPERATING MODE N/A
 DESCRIBE EMISSION POINT EASTERN MOST conveyor belt below silo
 HEIGHT OF EMISSION POINT _____ HEIGHT RELATIVE TO OBSERVER
 START 12' END SAME START -30' END SAME
 DISTANCE TO EMISSION POINT _____ DIRECTION TO EM. PT. (DEGREES)
 START 60' END _____ START 72° END SAME
 VERTICAL ANGLE TO OBS. PT. _____ DIRECTION TO OBS. PT. (DEGREES)
 START -22° END SAME START 72° END SAME
 DISTANCE AND DIRECTION TO OBS. PT. FROM EM. PT.
 START Both SAME END SAME
 DESCRIBE EMISSIONS
 START NONE END SAME
 EMISSION COLOR _____ WATER DROPLET PLUME (NONE)
 START NONE END _____ ATTACHED _____ DETACHED _____
 DESCRIBE PLUME BACKGROUND
 START Belt END SAME
 BACKGROUND COLOR _____ SKY CONDITIONS
 START BLACK END SAME START SCAT. END SAME
 WIND SPEED _____ WIND DIRECTION
 START 5-8 END SAME START SSE END SAME
 AMBIENT TEMPERATURE _____ WET BULB TEMP. _____ %RH _____
 START 79 END 80 69 58



OBSERVER'S NAME (PRINT) CHARLES RESHARD
 OBSERVER'S SIGNATURE Charles Reshard DATE 4-4-07
 ORGANIZATION AIR CONSULTING + ENG.
 CERTIFIED BY E.T.A. DATE 2-07
 COMMENTS NO ODORS - SAND
EP-12

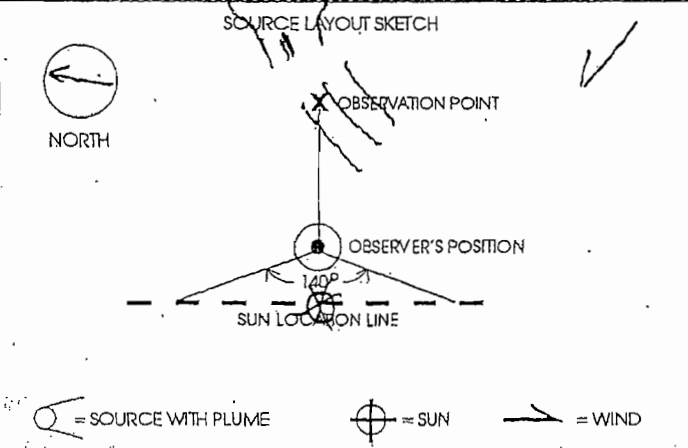
This source operated every 5 minutes, for 2 minutes, shutdown then repeats.



VISIBLE EMISSION OBSERVATION FORM

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1315		1415							
OBSERVATION DATE		TIME ZONE		PAGE		OF			
4-4-07		EDST		1		1			
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19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

COMPANY NAME Eagle Roofing Products
 SOURCE 200 ton Storage Bin to BC-10
 ADDRESS 1575 E. C.R. 470
 CITY Sunterville STATE FL. ZIP 33585
 PHONE _____ SOURCE ID NO. EU # 13
 PROCESS Conveyor Belt OPERATING MODE NORMAL
 CONTROL EQUIPMENT N/A OPERATING MODE N/A
 DESCRIBE EMISSION POINT Western Most conveyor belt below Silo
 HEIGHT OF EMISSION POINT _____ HEIGHT RELATIVE TO OBSERVER
 START ~12' END SAME START -30' END SAME
 DISTANCE TO EMISSION POINT _____ DIRECTION TO EM. PT. (DEGREES)
 START ~60' END _____ START 71° END SAME
 VERTICAL ANGLE TO OBS. PT. _____ DIRECTION TO OBS. PT. (DEGREES)
 START -22° END _____ START 71° END SAME
 DISTANCE AND DIRECTION TO OBS. PT. FROM EM. PT.
 START Both Same END SAME
 DESCRIBE EMISSIONS
 START NONE END SAME
 EMISSION COLOR _____ WATER DROPLET PLUME: NONE
 START NONE END SAME ATTACHED _____ DETACHED _____
 DESCRIBE PLUME BACKGROUND
 START Belt END SAME
 BACKGROUND COLOR _____ SKY CONDITIONS
 START Black END SAME START Scat. END SAME
 WIND SPEED _____ WIND DIRECTION
 START 5-8 END SAME START SSE END SAME
 AMBIENT TEMPERATURE _____ WET BULB TEMP. _____ %RH _____
 START 79 END 80 69 58



OBSERVER'S NAME (PRINT) CHARLES RESHARD
 OBSERVER'S SIGNATURE Charles Reshard DATE 4-4-07
 ORGANIZATION AIR Consulting + Eng.
 CERTIFIED BY E.T.A. DATE 2-07
 COMMENTS NO odors - W-10
EP-13

This source operated every 10 minutes, for 2 minutes, shutdown then repeats.

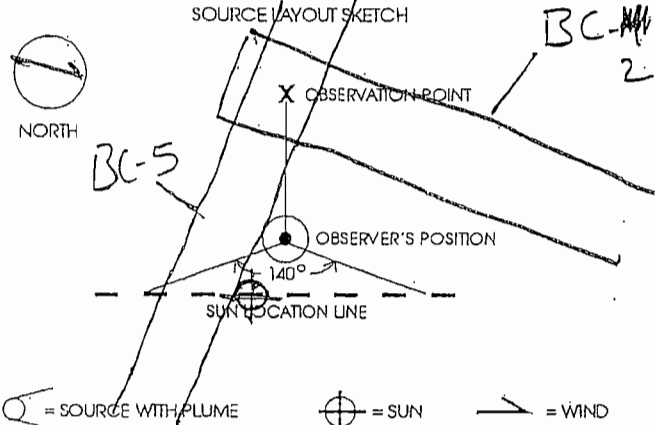


VISIBLE EMISSION OBSERVATION FORM

START TIME **0805** END TIME **1325**
 OBSERVATION DATE **4/5/07** TIME ZONE **EDT** PAGE **1** OF **1**

SEC MIN	0				15				30				45			
	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45
1	0	0	0	0	31	0	0	0	0							
2	0	0	0	0	32	0	0	0	0							
3	0	0	0	0	33	0	0	0	0							
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7	0	0	0	0	37	0	0	0	0							
8	0	0	0	0	38	0	0	0	0							
9	0	0	0	0	39	0	0	0	0							
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11	0	0	0	0	41	0	0	0	0							
12	0	0	0	0	42	0	0	0	0							
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14	0	0	0	0	44	0	0	0	0							
15	0	0	0	0	45	0	0	0	0							
16	0	0	0	0	46	0	0	0	0							
17	0	0	0	0	47	0	0	0	0							
18	0	0	0	0	48	0	0	0	0							
19	0	0	0	0	49	0	0	0	0							
20	0	0	0	0	50	0	0	0	0							
21	0	0	0	0	51	0	0	0	0							
22	0	0	0	0	52	0	0	0	0							
23	0	0	0	0	53	0	0	0	0							
24	0	0	0	0	54	0	0	0	0							
25	0	0	0	0	55	0	0	0	0							
26	0	0	0	0	56	0	0	0	0							
27	0	0	0	0	57	0	0	0	0							
28	0	0	0	0	58	0	0	0	0							
29	0	0	0	0	59	0	0	0	0							
30	0	0	0	0	60	0	0	0	0							

COMPANY NAME **Eagle Roofing**
 SOURCE **BC-2 drop to BC-5**
 ADDRESS **1575 E County Rd. 470**
 CITY **Sumterville** STATE **FL** ZIP _____
 PHONE _____ SOURCE ID NO. **EM 6**
 PROCESS **Belt Drop to Belt** OPERATING MODE **197.40 tons/hr sand**
 CONTROL EQUIPMENT _____ OPERATING MODE _____
 DESCRIBE EMISSION POINT **Sand column Between belts**
 HEIGHT OF EMISSION POINT START **10'** END **10'** HEIGHT RELATIVE TO OBSERVER START **4'** END **4'**
 DISTANCE TO EMISSION POINT START **10'** END **10'** DIRECTION TO EM. PT. (DEGREES) START **248°** END **248°**
 VERTICAL ANGLE TO OBS. PT. START **11°** END **11°** DIRECTION TO OBS. PT. (DEGREES) START **248°** END **248°**
 DISTANCE AND DIRECTION TO OBS. PT. FROM EM. PT. START **Same pt** END **Same pt**
 DESCRIBE EMISSIONS START **None observed** END **None observed**
 EMISSION COLOR START _____ END _____ WATER DROPLET PLUME **NONE**
 START _____ END _____ ATTACHED _____ DETACHED _____
 DESCRIBE PLUME BACKGROUND START **Concrete wall** END **Concrete wall**
 BACKGROUND COLOR START **Gray** END **Gray** SKY CONDITIONS START **Inside** END **Inside**
 WIND SPEED START _____ END _____ WIND DIRECTION START _____ END _____
 AMBIENT TEMPERATURE START **74** END **75** WET BULB TEMP. **Digital** %RH **71**



OBSERVER'S NAME (PRINT) **Joshua Gelston**
 OBSERVER'S SIGNATURE _____ DATE **4/5/07**
 ORGANIZATION **Air Consulting & Engineering**
 CERTIFIED BY **Eastern Technical Assoc.** DATE **1/09**
 COMMENTS **Bright sunlight at start. Stop 0827. Start 1100, Stop 1128, Restart 1316.**

2-5

EP-6



VISIBLE EMISSION OBSERVATION FORM

START TIME: 0805 END TIME: 1325

OBSERVATION DATE: 4-5-07 TIME ZONE: EDT PAGE 1 OF 1

SEC MIN	SEC				SEC MIN	SEC			
	0	15	30	45		0	15	30	45
COMPANY NAME	Eagle Roofing Products								
SOURCE	BC-7 to 200-ton Storage Bin								
ADDRESS	1575 E. CR. 470								
CITY	Sunterville STATE FL. ZIP 33585								
PHONE	SOURCE ID NO. EU#11								
PROCESS	Conveyor belt OPERATING MODE NORMAL								
CONTROL EQUIPMENT	N/A OPERATING MODE N/A								
DESCRIBE EMISSION POINT	conveyor belt entering at top of silo								
HEIGHT OF EMISSION POINT	START ~ 35' END SAME HEIGHT RELATIVE TO OBSERVER START ~ 31' END SAME								
DISTANCE TO EMISSION POINT	START ~ 60' END SAME DIRECTION TO EM. PT. (DEGREES) START ~ 300° END SAME								
VERTICAL ANGLE TO OBS. PT.	START ~ 23° END SAME DIRECTION TO OBS. PT. (DEGREES) START ~ 300° END SAME								
DISTANCE AND DIRECTION TO OBS. PT. FROM EM. PT.	START Both SAME END SAME								
DESCRIBE EMISSIONS	START NONE END SAME								
EMISSION COLOR	WATER DROPLET PLUME NONE								
DESCRIBE PLUME BACKGROUND	START SKY/clouds END Clouds								
BACKGROUND COLOR	START GRAY END SAME SKY CONDITIONS START SCAT. END Overcast								
WIND SPEED	START 3-5 END SAME WIND DIRECTION START N END SAME								
AMBIENT TEMPERATURE	START 68 END 81 WET BULB TEMP. 65 %RH 86								
SOURCE LAYOUT SKETCH									

OBSERVER'S NAME (PRINT) CHARLES RESHARD
 OBSERVER'S SIGNATURE Charles Reshard DATE 4-5-07
 ORGANIZATION AIR Consulting + Eng.
 CERTIFIED BY E.T.A. DATE 2-07
 COMMENTS NO Odors
 EP-11

Stopped @ 0827, 1100 Resume, 1130 stopped, Resume @ 1317

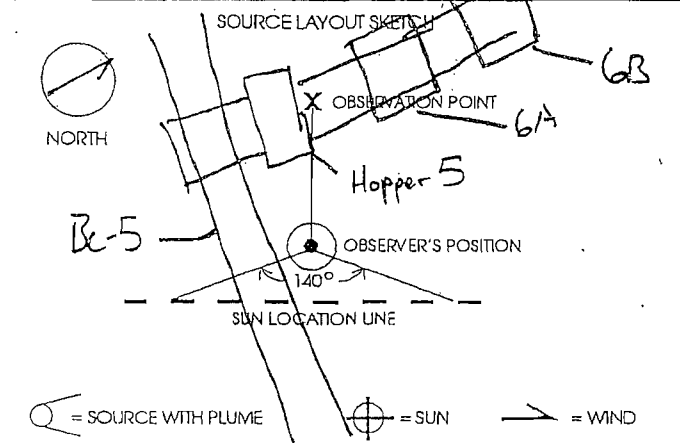


VISIBLE EMISSION OBSERVATION FORM

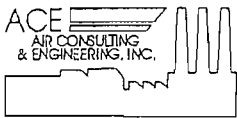
START TIME: 0605 END TIME: 1325
 OBSERVATION DATE: 4/9/07 TIME ZONE: EDT PAGE 1 OF 1

SEC MIN	0				15				30				45			
	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45
1	0	0	0	0	31	0	0	0	0							
2	0	0	0	0	32	0	0	0	0							
3	0	0	0	0	33	0	0	0	0							
4	0	0	0	0	34	0	0	0	0							
5	0	0	0	0	35	0	0	0	0							
6	0	0	0	0	36	0	0	0	0							
7	0	0	0	0	37	0	0	0	0							
8	0	0	0	0	38	0	0	0	0							
9	0	0	0	0	39	0	0	0	0							
10	0	0	0	0	40	0	0	0	0							
11	0	0	0	0	41	0	0	0	0							
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26	0	0	0	0	56	0	0	0	0							
27	0	0	0	0	57	0	0	0	0							
28	0	0	0	0	58	0	0	0	0							
29	0	0	0	0	59	0	0	0	0							
30	0	0	0	0	60	0	0	0	0							

COMPANY NAME Eagle Roofing
 SOURCE Hoppers 5 drop to BC-2
 ADDRESS 1575 E. County Rd 470
 CITY Sumterville STATE FL ZIP _____
 PHONE _____ SOURCE ID NO. EU-2
 PROCESS Hopper drop to belt OPERATING MODE 19740 tons/hr sand
 CONTROL EQUIPMENT _____ OPERATING MODE _____
 DESCRIBE EMISSION POINT: Sand Column between belts
 HEIGHT OF EMISSION POINT START -8' END -8' HEIGHT RELATIVE TO OBSERVER START 6' END 6'
 DISTANCE TO EMISSION POINT START 10' END 10' DIRECTION TO EM. PT. (DEGREES) START 290° END 290°
 VERTICAL ANGLE TO OBS. PT. START 0° END 0° DIRECTION TO OBS. PT. (DEGREES) START 290° END 290°
 DISTANCE AND DIRECTION TO OBS. PT. FROM EM. PT. START Same pt END Same pt
 DESCRIBE EMISSIONS START None observed END None observed
 EMISSION COLOR START _____ END _____ WATER DROPLET PLUME NONE
 START _____ END _____ ATTACHED _____ DETACHED _____
 DESCRIBE PLUME BACKGROUND START Steel girder END Steel girder
 BACKGROUND COLOR START Grey END Grey SKY CONDITIONS START Inside END Inside
 WIND SPEED START _____ END _____ WIND DIRECTION START _____ END _____
 AMBIENT TEMPERATURE START 73.4 END 75 WET BULB TEMP. Digital %RH 71



OBSERVER'S NAME (PRINT) Joshua Stelton
 OBSERVER'S SIGNATURE [Signature] DATE 4-5-07
 ORGANIZATION Air Consulting & Engineering
 CERTIFIED BY Eastern Technical Assoc. DATE 1/07
 COMMENTS Magnetic compass & cel phone worthless inside structure. Stop 0827. Start 1100. Stop 1128. Start 13:16.



VISIBLE EMISSION OBSERVATION FORM

START TIME: 1428 END TIME: 1759
 OBSERVATION DATE: 5-07 TIME ZONE: EDT PAGE: 1 OF 1

COMPANY NAME: Eagle Roofing
 SOURCE: Hoppers 1-3 drop to BC-1
 ADDRESS: 1575 E CR 470
 CITY: Sunterville STATE: FC ZIP: _____
 PHONE: _____ SOURCE ID NO.: EP 1
 PROCESS: Hopper drop to belt OPERATING MODE: 197.40 t/hr
 CONTROL EQUIPMENT: _____ OPERATING MODE: _____
 DESCRIBE EMISSION POINT: Sand column under active hopper

HEIGHT OF EMISSION POINT: START 8' END 8' HEIGHT RELATIVE TO OBSERVER: START 6' END 6'
 DISTANCE TO EMISSION POINT: START ~10' END ~10' DIRECTION TO EM. PT. (DEGREES): START 271° END 271°
 VERTICAL ANGLE TO OBS. PT.: START 0° END 0° DIRECTION TO OBS. PT. (DEGREES): START 271° END 271°
 DISTANCE AND DIRECTION TO OBS. PT. FROM EM. PT.: START Same pt END Same pt

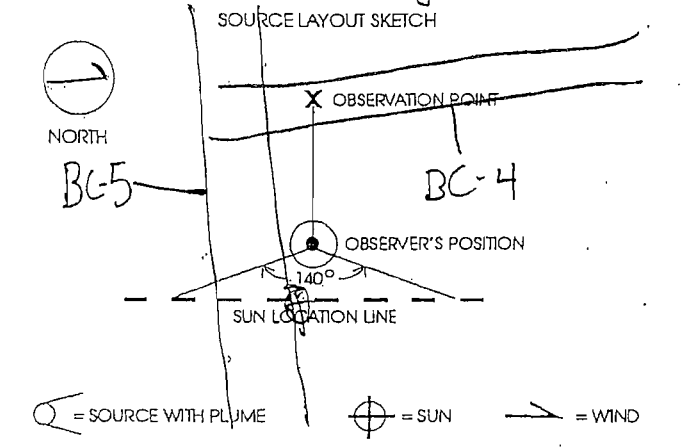
DESCRIBE EMISSIONS: START None observed END None observed
 EMISSION COLOR: START — END — WATER DROPLET PLUME: NONE
 ATTACHED: _____ DETACHED: _____

DESCRIBE PLUME BACKGROUND: START Steel girder END Same
 BACKGROUND COLOR: START grey END Gray SKY CONDITIONS: START Inside END Inside

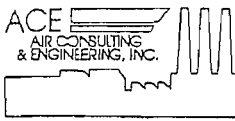
WIND SPEED: START — END — WIND DIRECTION: START — END —

AMBIENT TEMPERATURE: START 72 END 73 WET BULB TEMP.: Digital 71 %RH: 71

SEC MIN	0	15	30	45	SEC MIN	0	15	30	45
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2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
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7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
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21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
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25	0	0	0	0	55	0	0	0	0
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27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0



OBSERVER'S NAME (PRINT): Joshua Gibson
 OBSERVER'S SIGNATURE: [Signature] DATE: 4/5/07
 ORGANIZATION: Air Consulting & Engineering
 CERTIFIED BY: Eastern Technical Associates DATE: 1/07
 COMMENTS: Started hopper 1. Went to hopper 2A @ 1450. Stopped 15:02; start 1734



VISIBLE EMISSION OBSERVATION FORM

START TIME		END TIME							
1428		1759							
OBSERVATION DATE		TIME ZONE		PAGE				OF	
4-5-07		EDT		1				1	
SEC	MIN				SEC	MIN			
	0	15	30	45		0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
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27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

COMPANY NAME Eagle Roofing
 SOURCE BC-1 drop to BC-5
 ADDRESS 1575 E CR 470
 CITY Sumterville STATE FL ZIP _____
 PHONE _____ SOURCE ID NO. E.P.5
 PROCESS Belt drop to belt OPERATING MODE 197.40 t/hr
 CONTROL EQUIPMENT _____ OPERATING MODE _____

DESCRIBE EMISSION POINT Sand column between belts

HEIGHT OF EMISSION POINT START 10' END _____
 HEIGHT RELATIVE TO OBSERVER START 4' END 4'

DISTANCE TO EMISSION POINT START 10' END 10'
 DIRECTION TO EM. PT. (DEGREES) START 235° END 235°

VERTICAL ANGLE TO OBS. PT. START 12° END 12°
 DIRECTION TO OBS. PT. (DEGREES) START 235° END 235°

DISTANCE AND DIRECTION TO OBS. PT. FROM EM. PT.
 START Same point END Same point

DESCRIBE EMISSIONS
 START None observed END None observed

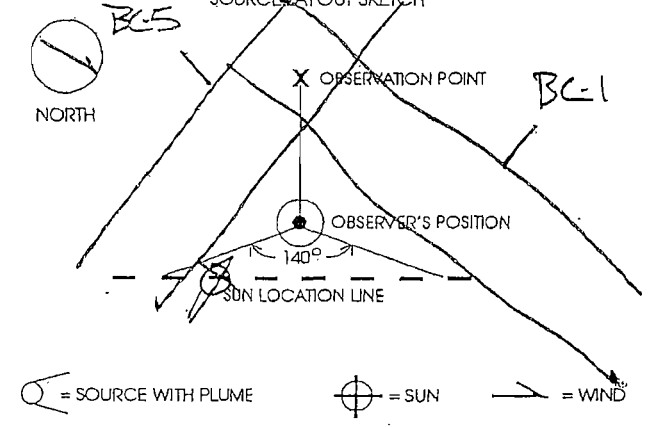
EMISSION COLOR START _____ END _____
 WATER DROPLET PLUME: NONE
 ATTACHED _____ DETACHED _____

DESCRIBE PLUME BACKGROUND
 START Concrete wall END Concrete wall

BACKGROUND COLOR START Grey END Grey
 SKY CONDITIONS START Inside END Inside

WIND SPEED START _____ END _____
 WIND DIRECTION START _____ END _____

AMBIENT TEMPERATURE START 72 END 71
 WET BULB TEMP. Digital %RH 71

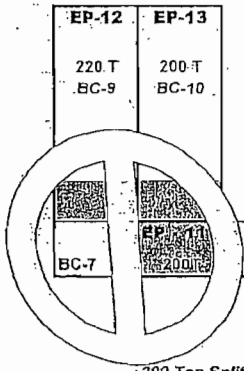


OBSERVER'S NAME (PRINT) Joshua Gelston
 OBSERVER'S SIGNATURE [Signature] DATE 4/5/07
 ORGANIZATION Air Consulting & Engineering
 CERTIFIED BY Eastern Technical Associates DATE 1/07
 COMMENTS Started on Hopper 1. Went to hopper 2 @ 1450
Stopped @ 15:02:50.

Florida Roofing Products LLC
E.U. 001

April 4th & 5th TESTING

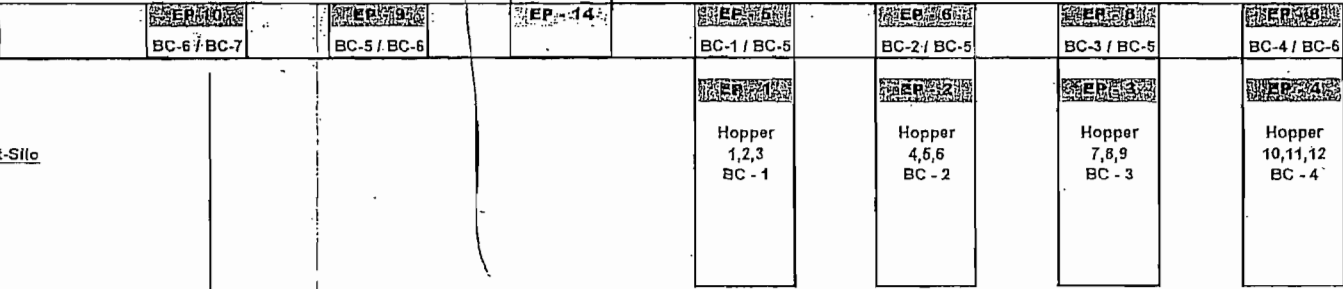
SOUTH



200 Ton Split-Silo

EAST

Crusher -
Not
Operational
BC - 28
BC - 5



NORTH

WEST



Eagle Roofing Products Florida LLC
A subsidiary of Burlingame Industries, Inc.

*Manufacturing
and Showroom*

1575 E. C.R. 470
Sumterville, FL 33585
Phone 877 300 3245
Fax 877 300 3248

Administrative Offices

3546 N. Riverside Ave.
Rialto, CA 92377
Phone 909 822 6000
Fax 909 822 3516

Friday, April 06, 2007

ACE
Dagmar Fick
2106 N.W. 67th Place Suite #4
Gainesville, Florida 32653

RE: E.U. 001 (Sand and Shale Receiving and Handling System)

Dear Ms. Fick:

The following line information was used to determine our throughput rate for E.U. 001,

BELT SPEED	169.49 ft / minute
------------	--------------------

		THROUGHPUT
Aggregates (sand)	38.83 lbs / lineal ft / avg.	197.40 Tons / Hour
Shale (screenings / W10)	41.75 lbs / lineal ft / avg.	212.31 Tons / Hour

Please call me with any additional questions. The team did a GREAT job and we appreciate the professional services.

Regards,

Gary L. Manlove
Director of Manufacturing

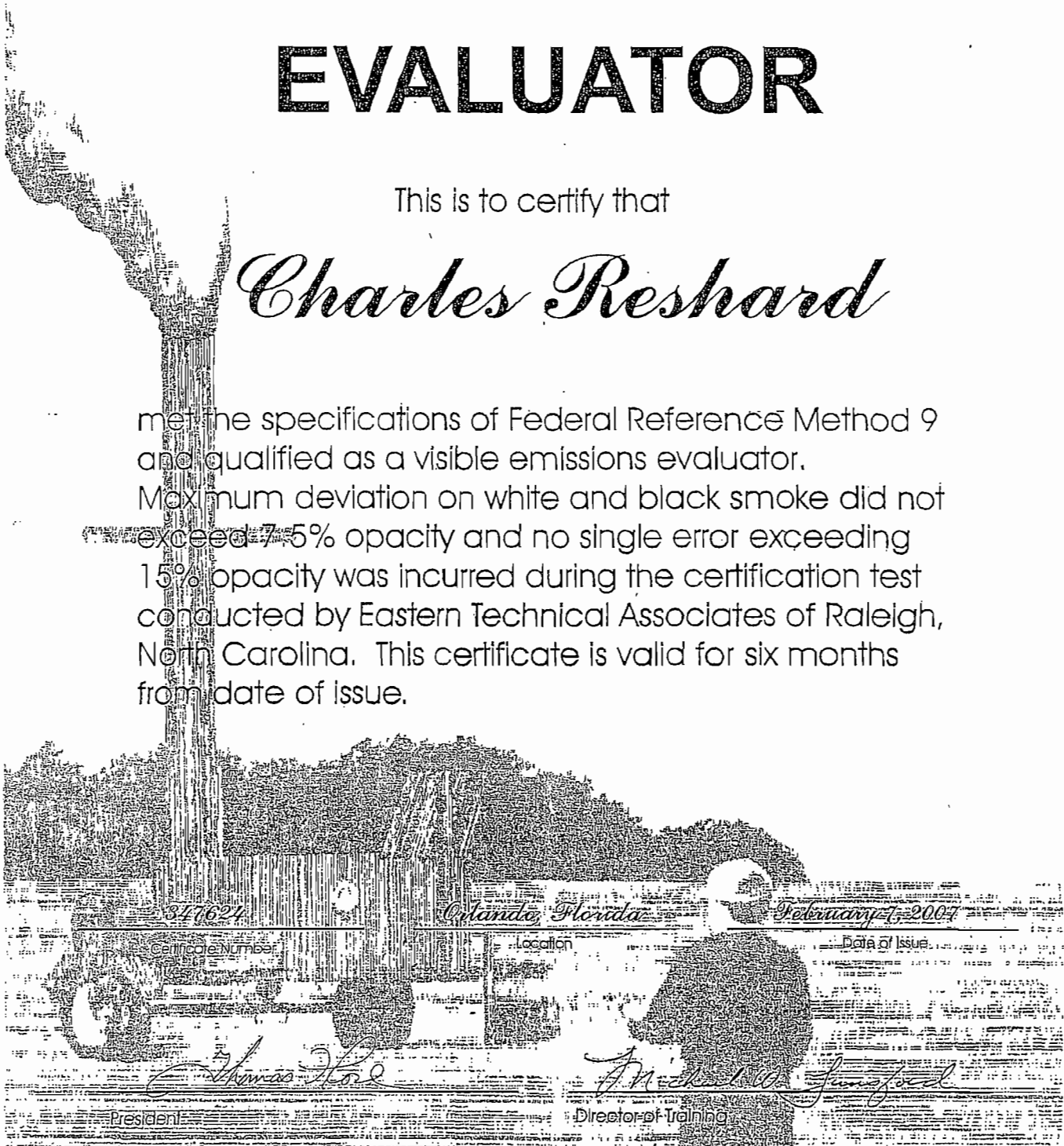
Cc: Seamus Burlingame, Victor Torcat

VISIBLE EMISSIONS EVALUATOR

This is to certify that

Charles Reshard

met the specifications of Federal Reference Method 9 and qualified as a visible emissions evaluator. Maximum deviation on white and black smoke did not exceed 7.5% opacity and no single error exceeding 1.5% opacity was incurred during the certification test conducted by Eastern Technical Associates of Raleigh, North Carolina. This certificate is valid for six months from date of issue.



347624

Orlando, Florida

February 7, 2007

Certificate Number

Location

Date of Issue

Thomas Hord

Michael W. Junger

President

Director of Training

EASTERN TECHNICAL ASSOCIATES

NEW INFORMATION ON YOUR WALLET CARD

CHARLES RESHARD

met the specifications of Federal Reference Method 9 and qualifies as a visible emissions evaluator. Maximum deviation on white and black smoke did not exceed 7.5% opacity and no single error exceeding 1.5% opacity was incurred during the certification test conducted by Eastern Technical Associates of Raleigh, NC. This certificate is valid for six months from date of issue and expires on the date below.

To serve our customers better, we have added your LAST LECTURE date for your convenience. The first 3 digits are the location, S for Spring or F for Fall, and the year. January - June are spring schools and July - December are fall schools.

If you have questions or comments, please contact:

Debbie Scalise or Sheila Weathersbee
Customer Support

2/7/2007 8/9/2007 TMPF06
DATE OF SCHOOL EXPIRATION DATE LAST LECTURE

347624 RES840294
CERT NUMBER STUDENT ID NUMBER

919-878-3188
www.eta-is-opacity.com

PO BOX 1009
GARNER, NC 27529-1009



Visible Emissions Evaluation

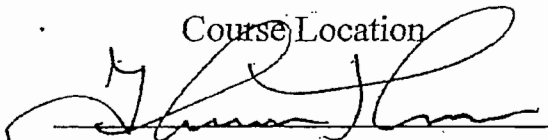
This certifies that...

Charles Reshard

...successfully completed a course in the methods of measurement of visible emissions from sources as specified by Federal Reference Methods 9 and 22 conducted by Eastern Technical Associates of Raleigh, North Carolina.

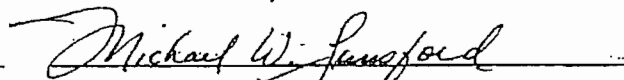
Tampa, Florida


Course Location


President

August 15, 2006

Date


Director of Training


Instructor

VISIBLE EMISSIONS EVALUATOR

This is to certify that

Joshua Gelston

met the specifications of Federal Reference Method 9 and qualified as a visible emissions evaluator.

Maximum deviation on white and black smoke did not exceed 7.5% opacity and no single error exceeding 15% opacity was incurred during the certification test conducted by Eastern Technical Associates of Raleigh, North Carolina. This certificate is valid for six months from date of issue.

348154

Certificate Number

West Palm Beach, Florida

Location

January 11, 2007

Date of Issue

Thomas Hore

President

Michael W. Jansford

Director of Training

Congratulations! Here is your wallet card signifying your successful Visible Emissions Evaluator certification on the date printed below. This certification is valid for six (6) months. To maintain continuous certification, you must re-certify before or on the expiration date. Please mark your calendar accordingly. We appreciate your business and look forward to serving your certification needs in the future. ETA can support your program with a wide range of environmental services from measurements to litigation support. Please give us a call if we can be of service.

EASTERN TECHNICAL ASSOCIATES

JOSHUA GELSTON

! the specifications of Federal Reference Method 5 and qualifies as a visible emissions evaluator. Maximum visibility on white and black smoke did not exceed .5% opacity and no single spot exceeding .5% opacity was incurred during the certification test conducted by Eastern Technical Associates of Raleigh, NC. This certificate is valid for six months from date of issue and expires on the date below.

1/11/2007	7/13/2007	TMP505
DATE OF SCHOOL	EXPIRATION DATE	LAST LECTURE
347154	<i>Michael W. Jamford</i>	
CERT NUMBER	TRAINING MANAGER	BEARER

NEW INFORMATION ON YOUR WALLET CARD

To serve our customers better, we have added your LAST LECTURE date for your convenience. The first 3 digits are the location, S for Spring or F for Fall, and the year. January - June are spring schools and July - December are fall schools.

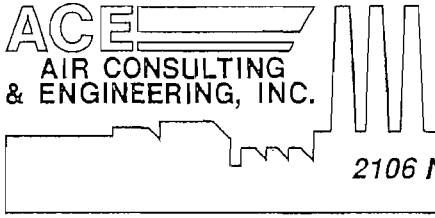
If you have questions or comments, please contact:

Debbie Scalise or Sheila Weathersbee
Customer Support

919-378-3188
www.eta-is-opacly.com

PO BOX 1009
GARNER, NC 27529-1009

ACE
AIR CONSULTING
& ENGINEERING, INC.



2106 N.W. 67th Place • Suite 4 • Gainesville, Florida • 32653

(352) 335-1889 FAX (352) 335-1891

February 14, 2007

E4 002 + 003

Mr. Gary Manlove
Eagle Roofing Products Florida LLC
1575 East County Road 470
Sumterville, Florida 33585

Dear Mr. Manlove:

On February 1, 2007 Air Consulting and Engineering, Inc. (ACE) conducted visible emission testing on the Baghouse exhausts of Cement Storage Silo Number 1 and 2 at Eagle Roofing Products Florida LLC in Sumterville, Florida.

Testing was conducted using FDEP Method 9 to demonstrate compliance with permit conditions (1190045-001-AC).

Emission from the two silo baghouse exhausts averaged 0.0% opacity for the highest six-minute period of the tests. Permitted opacity is 5% for each source. During the test Silo Number 1 (EU002) received 24.45 tons of cement in 104 minutes (14.11 TPH). A tanker truck off loaded 26.5 tons of cement in 50 minutes (31.8 TPH) into Silo Number 2 (EJ003). Enclosed are our VE data sheets, observer's certification and the tanker weigh tickets.

Please contact me if further information is required. Please send a copy of the report to the following FDEP office by March 16, 2007:

Mr. Christopher Bradley
Florida Department of
Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619-8318

Respectfully,

AIR CONSULTING AND ENGINEERING, INC.

Dagmar Fick

Dagmar Fick
Staff Engineer

ACE File: 546 07 01

RECEIVED OCT 24 2007

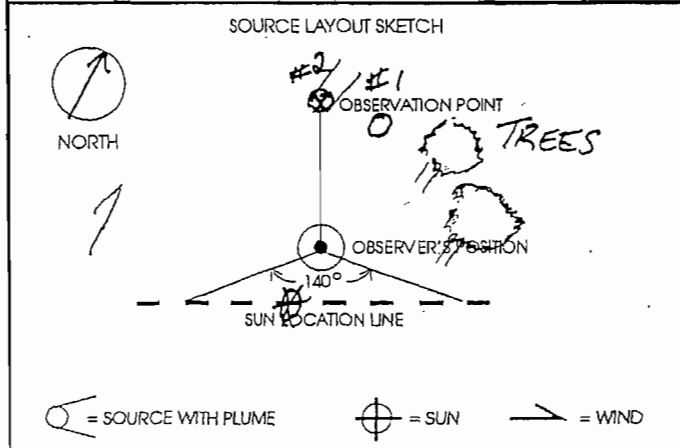


VISIBLE EMISSION OBSERVATION FORM

START TIME 1110 END TIME 1254
 OBSERVATION DATE 2-1-07 TIME ZONE EST PAGE 1 OF 2

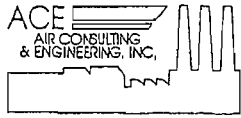
COMPANY NAME Eagle Roofing Products
 SOURCE Cement Silo-West (Eu-002) #2
 ADDRESS 1575 East County Road 470
 CITY Sunnterville STATE FL. ZIP 33585
 PHONE _____ SOURCE ID NO. _____
 PROCESS Cement Silo OPERATING MODE 26T White Cement
 CONTROL EQUIPMENT Baghouse OPERATING MODE NORMAL
 DESCRIBE EMISSION POINT Most Westerly of 2 White Silos
 HEIGHT OF EMISSION POINT START 75' END SAME HEIGHT RELATIVE TO OBSERVER START 72' END SAME
 DISTANCE TO EMISSION POINT START 320' END SAME DIRECTION TO EM. PT. (DEGREES) START 316° END SAME
 VERTICAL ANGLE TO OBS. PT. START 13° END SAME DIRECTION TO OBS. PT. (DEGREES) START 316° END SAME
 DISTANCE AND DIRECTION TO OBS. PT. FROM EM. PT. START Both SAME END SAME
 DESCRIBE EMISSIONS START NONE END SAME
 EMISSION COLOR START NONE END SAME WATER DROPLET PLUME NONE ATTACHED _____ DETACHED _____
 DESCRIBE PLUME BACKGROUND START Clouds END SAME
 BACKGROUND COLOR START GRAY END SAME SKY CONDITIONS START Overcast END SAME
 WIND SPEED START 5-8 END SAME WIND DIRECTION START S END SAME
 AMBIENT TEMPERATURE START 69 END 74 WET BULB TEMP. 65 %RH 80

SEC MIN	0	15	30	45	SEC MIN	0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
10	0	0	0	0	40	0	0	0	0
11	0	0	0	0	41	0	0	0	0
12	0	0	0	0	42	0	0	0	0
13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
23	0	0	0	0	53	0	0	0	0
24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0



OBSERVER'S NAME (PRINT) CHARLES RESHARD
 OBSERVER'S SIGNATURE Charles Reshard DATE 2-1-07
 ORGANIZATION AIR CONSULTING + ENG.
 CERTIFIED BY ETA DATE 8-06
 COMMENTS Start pumping @ 1110 End @ 1254

SEE PAGE ONE



VISIBLE EMISSION OBSERVATION FORM

START TIME		END TIME									
OBSERVATION DATE		TIME ZONE				PAGE					
2-1-07		EST				2 OF					
SEC	MIN	0	15	30	45	SEC	MIN	0	15	30	45
1	0	0	0	0	0	31	0	0	0	0	0
2	0	0	0	0	0	32	0	0	0	0	0
3	0	0	0	0	0	33	0	0	0	0	0
4	0	0	0	0	0	34	0	0	0	0	0
5	0	0	0	0	0	35	0	0	0	0	0
6	0	0	0	0	0	36	0	0	0	0	0
7	0	0	0	0	0	37	0	0	0	0	0
8	0	0	0	0	0	38	0	0	0	0	0
9	0	0	0	0	0	39	0	0	0	0	0
10	0	0	0	0	0	40	0	0	0	0	0
11	0	0	0	0	0	41	0	0	0	0	0
12	0	0	0	0	0	42	0	0	0	0	0
13	0	0	0	0	0	43	0	0	0	0	0
14	0	0	0	0	0	44	0	0	0	0	0
15	0	0	0	0	0	45					
16	0	0	0	0	0	46					
17	0	0	0	0	0	47					
18	0	0	0	0	0	48					
19	0	0	0	0	0	49					
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27	0	0	0	0	0	57					
28	0	0	0	0	0	58					
29	0	0	0	0	0	59					
30	0	0	0	0	0	60					

COMPANY NAME Eagle Roofing Products

SOURCE Cement Silo - West (EU-002) # 2

ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE _____ SOURCE ID NO. _____

PROCESS _____ OPERATING MODE _____

CONTROL EQUIPMENT _____ OPERATING MODE _____

DESCRIBE EMISSION POINT _____

HEIGHT OF EMISSION POINT _____ HEIGHT RELATIVE TO OBSERVER _____

START _____ END _____ START _____ END _____

DISTANCE TO EMISSION POINT _____ DIRECTION TO EM. PT. (DEGREES) _____

START _____ END _____ START _____ END _____

VERTICAL ANGLE TO OBS. PT. _____ DIRECTION TO OBS. PT. (DEGREES) _____

START _____ END _____ START _____ END _____

DISTANCE AND DIRECTION TO OBS. PT. FROM EM. PT. _____

START _____ END _____

DESCRIBE EMISSIONS _____

START _____ END _____

EMISSION COLOR _____ WATER DROPLET PLUMES NONE

START _____ END _____ ATTACHED _____ DETACHED _____

DESCRIBE PLUME BACKGROUND _____

START _____ END _____

BACKGROUND COLOR _____ SKY CONDITIONS _____

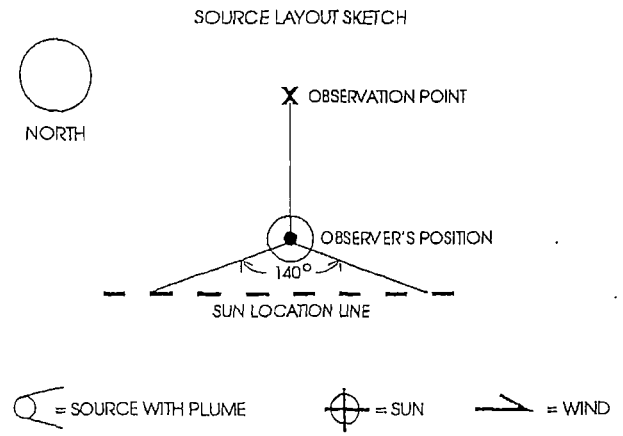
START _____ END _____ START _____ END _____

WIND SPEED _____ WIND DIRECTION _____

START _____ END _____ START _____ END _____

AMBIENT TEMPERATURE _____ WET BULB TEMP. _____ %RH _____

START _____ END _____



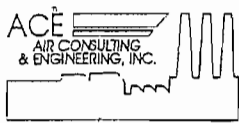
OBSERVER'S NAME (PRINT) CHARLES RESHARD

OBSERVER'S SIGNATURE Charles Reshard DATE 2-1-07

ORGANIZATION AIR CONSULTING + ENG.

CERTIFIED BY E.T.A. DATE 8-06

COMMENTS _____

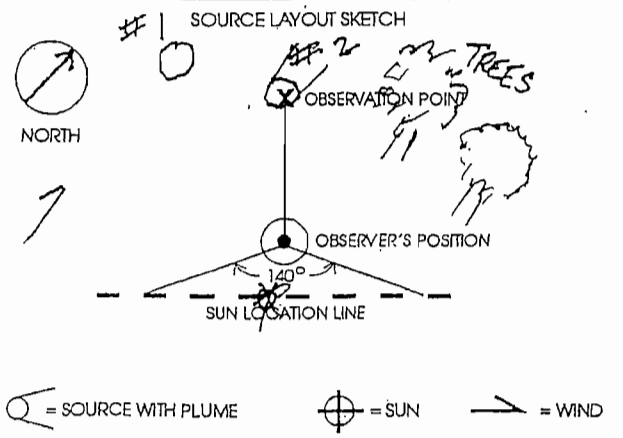


VISIBLE EMISSION OBSERVATION FORM

START TIME: 0955 END TIME: 1045
 OBSERVATION DATE: 2-1-07 TIME ZONE: EST PAGE 1 OF 1

SEC MIN	0 15 30 45				SEC MIN	0 15 30 45			
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2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
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13	0	0	0	0	43	0	0	0	0
14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51				
22	0	0	0	0	52				
23	0	0	0	0	53				
24	0	0	0	0	54				
25	0	0	0	0	55				
26	0	0	0	0	56				
27	0	0	0	0	57				
28	0	0	0	0	58				
29	0	0	0	0	59				
30	0	0	0	0	60				

COMPANY NAME EAGLE Roofing Products
 SOURCE Cement Silo - East (EU-003) #2
 ADDRESS 1575 East County Road 470
 CITY Sunterville STATE FL ZIP _____
 PHONE _____ SOURCE ID NO. _____
 PROCESS Cement Silo OPERATING MODE 26.94 tons GRAY Cement
 CONTROL EQUIPMENT Baghouse OPERATING MODE NORMAL
 DESCRIBE EMISSION POINT Most Easterly of 2 White Silos
 HEIGHT OF EMISSION POINT _____ HEIGHT RELATIVE TO OBSERVER
 START ~75' END SAME START ~72' END SAME
 DISTANCE TO EMISSION POINT _____ DIRECTION TO EM. PT. (DEGREES)
 START ~300° END SAME START ~320° END SAME
 VERTICAL ANGLE TO OBS. PT. _____ DIRECTION TO OBS. PT. (DEGREES)
 START ~15° END _____ START ~320° END SAME
 DISTANCE AND DIRECTION TO OBS. PT. FROM EM. PT.
 START Both SAME END SAME
 DESCRIBE EMISSIONS
 START NONE END SAME
 EMISSION COLOR _____ WATER DROPLET PLUME (NONE)
 START NONE END SAME ATTACHED _____ DETACHED _____
 DESCRIBE PLUME BACKGROUND
 START Clouds END SAME
 BACKGROUND COLOR _____ SKY CONDITIONS
 START GRAY END SAME START Overcast END SAME
 WIND SPEED _____ WIND DIRECTION
 START 5-8 END SAME START S END SAME
 AMBIENT TEMPERATURE _____ WET BULB TEMP. _____ %RH _____
 START 70 END 69 64 74



OBSERVER'S NAME (PRINT) CHARLES RESHARD
 OBSERVER'S SIGNATURE Charles Reshard DATE 2-1-07
 ORGANIZATION AIR CONSULTING & ENG
 CERTIFIED BY E.T.A. DATE 8-06
 COMMENTS 26.94 tons

VISIBLE EMISSIONS EVALUATOR

This is to certify that

Charles Reshard

met the specifications of Federal Reference Method 9 and qualified as a visible emissions evaluator. Maximum deviation on white and black smoke did not exceed 7.5% opacity and no single error exceeding 15% opacity was incurred during the certification test conducted by Eastern Technical Associates of Raleigh, North Carolina. This certificate is valid for six months from date of issue.

342617

Certificate Number

Tampa, Florida

Location

August 16, 2006

Date of Issue

Thomas Hore

President

Michael W. Sanford

Director of Training

EASTERN TECHNICAL ASSOCIATES

CHARLES RESHARD

met the specifications of Federal Reference Method 9 and qualifies as a visible emissions evaluator. Maximum deviation on white and black smoke did not exceed 7.5% opacity and no single error exceeding 15% opacity was incurred during the certification test conducted by Eastern Technical Associates of Raleigh, NC. This certificate is valid for six months from date of issue and expires on the date below.

8/16/06

DATE OF SCHOOL

2/15/07

EXPIRATION DATE

TMPPF06

LAST LECTURE

342617

CERTIFICATE NUMBER

Michael W. Sanford

TRAINING MANAGER

BEARING

NEW INFORMATION ON YOUR WALLET CARD

To serve our customers better, we have added your LAST LECTURE date for your convenience. The first 3 digits are the location, S for Spring or F for Fall, and the year. January - June are spring schools and July - December are fall schools.

If you have questions or comments, please contact:

Debbie Scalise or Sheila Weathersbee
Customer Support

919-878-3188

www.eta-is-opacity.com

PO BOX 1009

GARNER, NC 27529-1009



Visible Emissions Evaluation

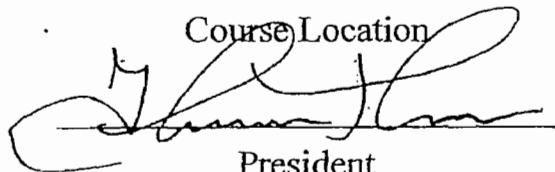
This certifies that...

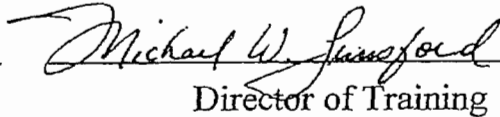
Charles Reshard

...successfully completed a course in the methods of measurement of visible emissions from sources as specified by Federal Reference Methods 9 and 22 conducted by Eastern Technical Associates of Raleigh, North Carolina.

Tampa, Florida

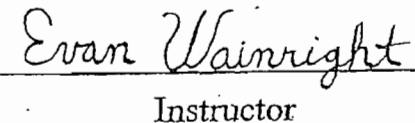
Course Location


President


Director of Training

August 15, 2006

Date


Instructor

FEDERAL WHITE CEMENT LTD		TRANSFLO Bill of Lading	
Origin:	TRANSFLO AT TAMPA, FL 33605	Delivery Date	02/01/2007 08:00 am
Carrier:	HYNICK TRUCKING	Loaded Date	01/31/2007 08:00 pm
Trailer:	6053	Shipper Order#	F100930
Seals:	4789241 - 4789250	Consignee PO#	
		Terminal Audit#	47213
Certificate of Analysis Required :NO			

Shipper: FEDERAL WHITE CEMENT LTD ATTN RAPHAEL BUHLER PO BOX 548 WOODSTOCK, ON N4S7Y5	Consignee: EAGLE ROOFING PRODUCTS 1575 E. COUNTY ROAD 470 SUMTERVILLE, FL 33585
--	---

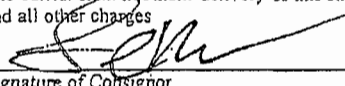
Commodity Shipping Description Page 1 of 1

TYPE 1 WHITE - PORTLAND BULK

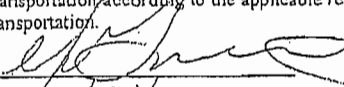
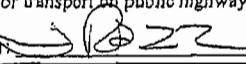
RailCar /Lot		NAHX93743		Total
Gross:	LBS	77420		77420
Tare:	LBS	28520		28520
Net:	LBS/TONS	48900/24.45		48900/24.45

Special Instructions: EPA TESTING**SAMPLE W/DRIVER *YK, DR*

Emergency Contact - For help in chemical emergencies involving spill, leak, fire, or exposure, contact:

Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding \$ _____ per _____	Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement. The carrier shall not make delivery of this shipment without payment of freight and all other charges.  Signature of Consignor	FREIGHT CHARGE: Check Appropriate Box Freight prepaid: <input checked="" type="checkbox"/> Collect: <input type="checkbox"/> 77420
---	--	--

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (hereinafter referred to as "carrier" and which said carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification or tariff on the date of the shipment. Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions set forth in the governing classification or tariff and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above named materials are properly classified, described, packaged, marked, labeled, and are in proper condition for transportation according to the applicable regulations of the Dept. of Transportation. Shipper, Per:  Date: 1/31/07	Drivers Signature hereon indicates: 1. Emergency response information in accordance with 49 CFR Part 172, Subpart G is present aboard the vehicle. 2. The required placards are in place. 3. Driver has performed a pre-trip safety inspection to ensure that all openings of the trailer/container are closed, secured, and leak-free, and that the trailer/container is safe for transport on public highways. Carrier, Per:  Date: _____
---	---

2

THIS SHIPPING ORDER

must be legibly filled in, in Ink, Indelible Pencil, or in Carbon, and retained by the agent.

WARNING: Portland cement, Cement Slag, and lime are injurious to eyes and cause skin irritation. Avoid eye contact or prolonged contact with skin. Wash thoroughly after handling. In case of eye contact flush with plenty of water for at least fifteen minutes. Consult a physician immediately. Keep out of reach of children.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading



Suwannee American Cement Company • 5117 U.S. Hwy. 27, Branford, Florida, USA

The property described below, in apparent good order, except as noted (contents and conditions of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery of said destination, if on its route, otherwise to delivery to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion or said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) Uniform Freight Classification in effect on the date hereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

This shipment is correctly described. Subject to verification by the EASTERN OR SOUTHERN WEIGHING & INSPECTION BUREAU according to agreement. Suwannee American Cement Shipper. This is the property of the shipper, and no reconsignment or diversion is to be made unless authorized by consignor.

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight. NOTE: Where the rate is dependent on value, the shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically by the shipper to be not.

Subject to Section 7 of conditions of applicable bill of lading, if the shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement. The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

If charges are to be prepaid, write or stamp here, "To be Prepaid." TO BE PREPAID

Suwannee American Cement

Per [Signature] (SIGNATURE OF CONSIGNOR)

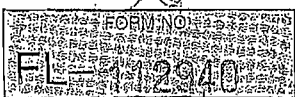
Received \$ [Blank] to apply in prepayment of the charges on this property described hereon. Agent or Cashier Per [Signature] (The signature here acknowledges only the amount prepaid)

Table with columns: CONSIGNED TO/DESTINATION, SHIPPING PLANT AND DATE, CARRIER ROUTE, CHARGES advanced \$, WEIGHT (GROSS, TARE, NET). Includes details like 5906400, 5007903, EAGLE ROOFING - 1575 CR 4704607, 1575 CR 470, SUMPTERVILLE FL, 33586, 01/31/2007 3:04 15:08, 346350.

Table with columns: COMMENTS/SPECIAL INSTRUCTIONS, WEIGHED BY, DATE, CHECKED BY/FOREMAN, TIME, CUSTOMER ORDER NO., DELIVERY DATE & TIME, BILL OF LADING NO., SEALS, CAR INITIALS/TRUCK NO., FROM BILO. Includes A-LINE SEAL #49127, 01/31/2007 15:08, 80810656, 159/303, 3.

Main table with columns: PRODUCT CODE, QUANTITY WEIGHT, NO. PKGS, COMMODITY, RATE, FREIGHT. Includes 4254081, 53,000.00, 25.50, Type I / II Portland Bulk, ASHTO. Includes handwritten signature and 'I wish Anita Welch'.

Customer Remarks section with fields for RECEIVED AT DESTINATION - CUSTOMER / AGENT SIGNATURE, DATE, ARRIVAL TIME, DEPARTURE TIME, Agent, Per.



SOURCE TEST REPORT
FOR
EPA METHOD 5 PARTICULATE MATTER TESTING
AND
EPA METHOD 9 VISIBLE EMISSION TESTING
PERMIT 1190045-001-AC, SECTION E
ON THE
REJECT TILE RECYCLING CRUSHER SYSTEM (EU 005)
AND
100 TON BULK CRUSHED TILE STORAGE BIN (EU 006)

AND

EPA METHOD 9 VISIBLE EMISSION TESTING
PERMIT SECTION B
ON THE
SAND AND SHALE RECYCLING AND HANDLING SYSTEM
(EU 001) EMISSION POINT 14 BC-28 TO BC-5 CONVEYOR
DROP POINT

AT
EAGLE ROOFING PRODUCTS FLORIDA LLC
SUMTERVILLE, FLORIDA

JUNE 12, 2007

PREPARED FOR:

EAGLE ROOFING PRODUCTS FLORIDA LLC
1575 EAST COUNTY ROAD 470
SUMTERVILLE, FLORIDA 33585

PREPARED BY:

AIR CONSULTING AND ENGINEERING, INC.
2106 NW 67TH PLACE, SUITE 4
GAINESVILLE, FLORIDA 32653
(352) 335-1889

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
1.0 INTRODUCTION.....	1
2.0 SUMMARY AND DISCUSSION OF RESULTS	2
3.0 PROCESS DESCRIPTION AND OPERATION	4
4.0 SAMPLING POINT LOCATION.....	6
5.0 FIELD AND ANALYTICAL PROCEDURES	8
5.1 PARTICULATE MATTER SAMPLING AND ANALYSIS--EPA METHOD 5	8
5.2 DETERMINATION OF VISIBLE EMISSIONS FROM A STATIONARY SOURCE--EPA METHOD 9.....	11

APPENDICES

APPENDIX A--COMPLETE EMISSION DATA WITH SAMPLE CALCULATIONS

APPENDIX B--FIELD DATA SHEETS

APPENDIX C--LABORATORY PM ANALYSIS

APPENDIX D--PLANT PRODUCTION CERTIFICATION

APPENDIX E--VISIBLE EMISSION DATA

APPENDIX F--QUALITY ASSURANCE

APPENDIX G--PROJECT PARTICIPANTS

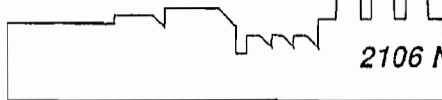
LIST OF TABLES

<u>TABLE</u>		<u>PAGE</u>
1	EMISSION SUMMARY	3

LIST OF FIGURES

<u>FIGURE</u>		<u>PAGE</u>
1	SAMPLING POINT LOCATION.....	7
2	EPA METHOD 5 SAMPLING SCHEMATIC	9

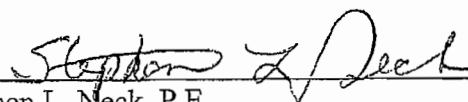
ACE
AIR CONSULTING
& ENGINEERING, INC.



2106 N.W. 67th Place • Suite 4 • Gainesville, Florida • 32653
(352) 335-1889 FAX (352) 335-1891

REPORT CERTIFICATION

To the best of my knowledge, all applicable field and analytical procedures comply with Florida Department of Environmental Protection requirements and all test data and plant operating data are true and correct.



Stephen L. Neck, P.E.

6-27-07

Date

1.0 INTRODUCTION

On June 12, 2007 personnel from Air Consulting and Engineering, Inc. (ACE) performed EPA Method 5 Particulate Matter (PM) emission testing on the baghouse exhaust which controls emissions from both the Reject Tile Recycling Crusher and the 100 ton Bulk Crushed Tile Storage Bin (EU's 005 and 006).

Three EPA Method 5 runs were conducted. An EPA Method 9 visible emission test was conducted simultaneously with each Method 5 test. During the same time period another EPA 9 VE test was conducted on another source, which is part of the Sand and Shale Receiving and Handling System (EU 001).

This source is specifically denoted emission point 14, which is the BC-28 to BC-5 conveyor drop point listed in section B of the permit.

Mr. Gary L. Manlove, Director of Manufacturing for Eagle coordinated testing. Messrs. Bret Galbraith and Joseph Graham of the Florida Department of Environmental Protection observed portions of the testing.

2.0 SUMMARY AND DISCUSSION OF RESULTS

5.4 Crusher System Baghouse System (EU 005 and 006)

Results of the PM tests averaged 0.004 grains per dry standard cubic foot (gr/dscf). The permitted allowable is 0.022 gr/dscf). Visible emissions averaged zero percent opacity against an allowable opacity value of 5%.

The PM data are summarized in Table 1. Complete emission data is provided in Appendix A with field data sheets in Appendix B.

5.5 EPA 9 Visible Emission Test (EU 001)

EU 001 emission point 14 averaged zero percent opacity against an allowable rate of 10% opacity. Emission point 14 does not operate over 60 consecutive minutes so that VE test was divided into a 35-minute and a 25-minute observation period.

All VE field data sheets and observer's certifications are provided in Appendix C.

5.6 Production Rates

The permit calls for certain production rates during testing. Plant production data is provided in Appendix D.

**Table 1 Emission Summary
EU 005 and EU 006
Tile Crusher System Baghouse Exhaust**

Run Number	Time	Volumetric Flow DSCFM	PM Emissions		VE % Opacity
			gr/dscf	lb/HR	
1	0708-0838	13651	0.005	0.55	0
2	0902-1015	12993	0.004	0.44	0
3	1032-1146	12956	0.004	0.39	0
Average		13200	0.004	0.46	0

Allowable emissions = 0.022 gr/dscf and 5% opacity

3.0 PROCESS DESCRIBING AND OPERATION

The permit describes the test sources as follows;

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 the Vertical Shaft Impactor (VSI). After passing through the VSI, material is transferred via covered belt to an enclosed two-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 tin/hopper (EU 006) where it is eventually conveyed back to the sand and shale handing system (EU 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 two-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 | 8. "Fine Materials" BC-28 Feed |
| 2. BC-21 Feed | 9. BC-24 Feed |
| 3. BC-22 Feed | 10. VSI Discharge to BC-24 |
| 4. BC-27 Feed | 11. VSI Inlet |
| 5. Jaw Crusher Inlet | 12. Screener Inlet |
| 6. Jaw Crusher Discharge/BC-23 Feed | 13. BC-26 Feed |
| 7. BC-25 to BC-23 Feed | 14. BC-25 Feed. |

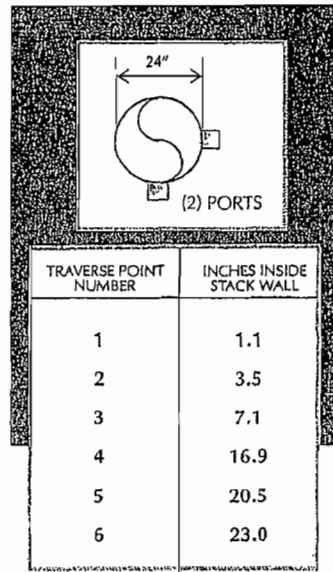
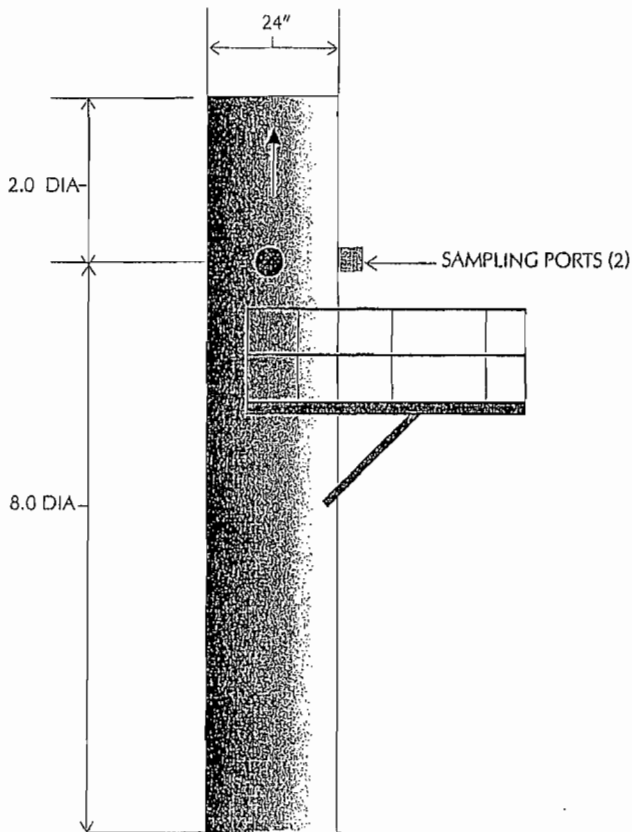
Additionally, the dust collector system has a pickup point located at the screen tower in EU 001.

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 two-deck shaker-screen. This material conveyed back to the sand and shale handling system (EU 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%.

4.0 SAMPLING POINT LOCATION

The baghouse schematic and sampling point locations are provided in Figure 1.



NOTE: NOT TO SCALE.

SOURCE: AIR CONSULTING & ENGINEERING, INC. (549Eagle 6/26/07)



FIGURE 1.
 SAMPLING POINT LOCATION
 DUST COLLECTOR BAGHOUSE EXHAUST
 EAGLE ROOFING
 SUMPTERVILLE, FLORIDA

5.0 FIELD AND ANALYTICAL PROCEDURES

5.1 Particulate Matter Sampling and Analysis--EPA Method 5 (Quartz Probe)

Particulate matter samples were collected by the particulate matter emission measurement method specified by the United States Environmental Protection Agency. A schematic diagram of the sampling train used is shown in Figure 2. All particulate matter captured from the nozzle to, and including, the filter was included in the calculation of the emission rate of particulate matter.

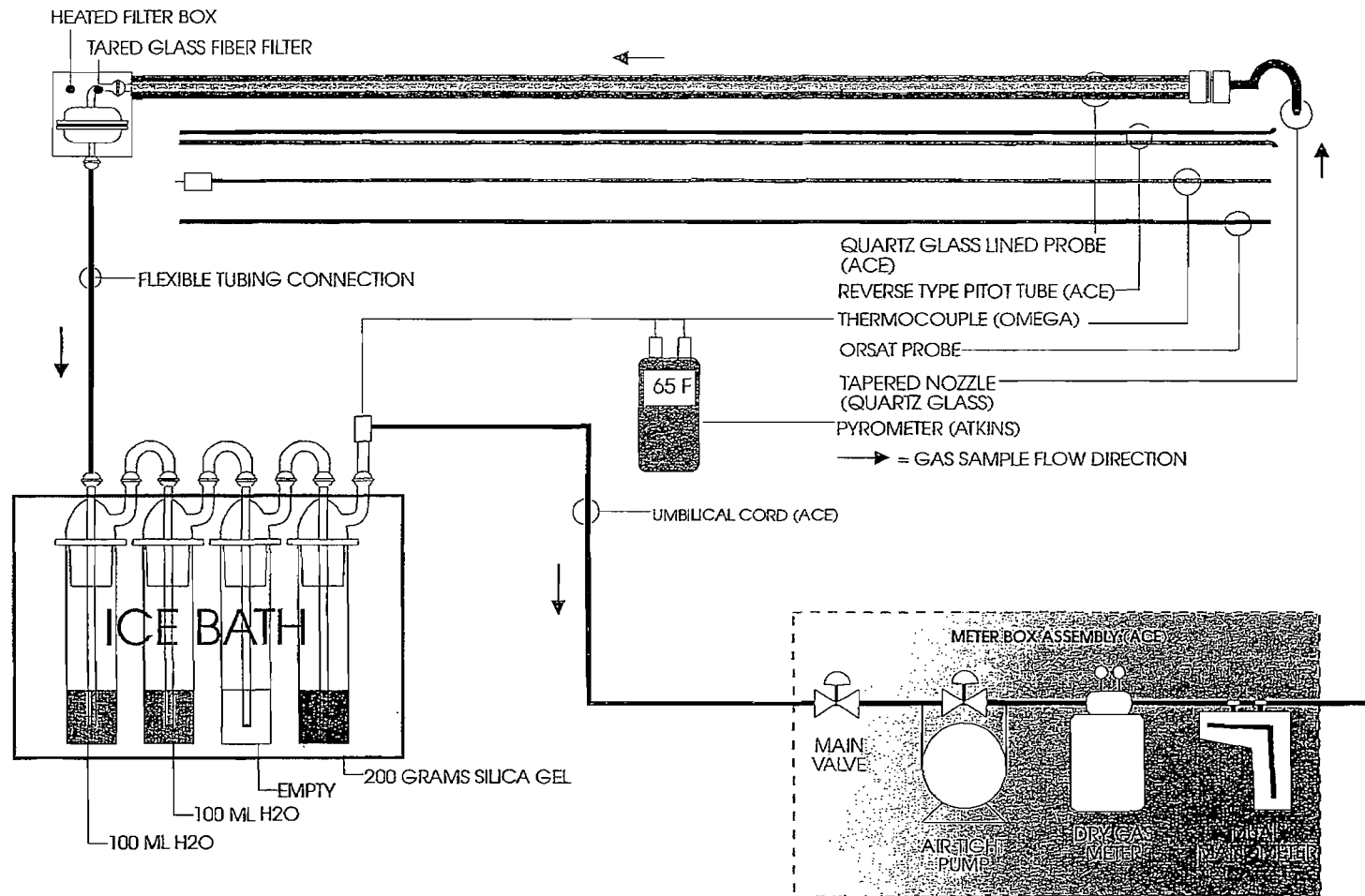
PREPARATION OF EQUIPMENT

1. FILTERS - Gelman type "A" filters, or their equivalents, were inspected, numbered, and placed in a drying oven for two hours at 105 degrees C, removed and placed in a standard desiccator containing indicating silica gel, allowed to cool for two hours, and weighed to the nearest 0.1 mg. The filters were then re-desiccated for a minimum of six hours and weighed to a constant weight (less than 0.5 mg change from previous weighing). The average of the two constant weights was used as the tare weight.
2. NOZZLE, FILTER HOLDER, AND SAMPLING PROBE - The nozzle, filter holder, and sampling probe were washed vigorously with soapy water and brushes, rinsed with acetone and distilled water, and dried prior to the test program. All openings on the sampling equipment were sealed while in transit to the test site.
3. IMPINGERS - The Greenburg-Smith impingers were cleaned with a warm soapy water solution and brushes, rinsed with distilled water and acetone, and dried. The impingers were sealed tightly during transit.

TEST PROCEDURE

Prior to performing the actual particulate matter sample runs, certain stack and stack gas parameters were measured. These preliminary measurements included the average gas temperature, the stack gas velocity head, the stack gas moisture content, and the stack dimensions at the point where the tests were being performed. The stack gas temperature was determined by using a bi-metallic thermocouple and calibrated pyrometer. Velocity head measurements were made with calibrated type "S" pitot tube and an inclined manometer. Velocity head measurements of 0.05 inches H₂O or less were measured utilizing a micromanometer.

The sampling traverse points were selected so that a representative sample could be extracted from the gas stream. The traverse points were located in the center of equal areas, the number of which were dependent upon the distance upstream and downstream from flow disturbances (per EPA Method 1; see Figure 1).



SOURCE: AIR CONSULTING & ENGINEERING, INC. (5QUARTZ) 8/16/95

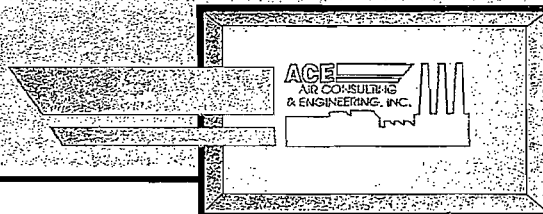


FIGURE 2.
EPA METHOD 5 SAMPLING SCHEMATIC
(DETERMINATION OF PARTICULATE EMISSIONS
FROM STATIONARY SOURCES-QUARTZ GLASS PROBE)

Each particulate matter test run consisted of sampling for a specific amount of time at each traverse point. The type "S" pitot tube was connected to the sampling probe so that an instantaneous velocity head measurement could be made at each traverse point while making the test run, the stack gas temperature was also measured at each point (per EPA Method 2). Nomographs were used to calculate the isokinetic sampling rate at each traverse point during each test run.

The gases sampled passed through the following components: a stainless steel nozzle and quartz glass probe; a glass fiber filter, two impingers each with 100 ml of distilled water; one impinger dry; one impinger with 200 grams of silica gel; a flexible sample line; an air-tight pump; a dry test meter; and a calibrated orifice. The second impinger had a standard tip, while the first, third, and fourth impingers had modified tips with a 0.5 inch I.D. opening. Sample recovery was accomplished by the following procedures:

1. The pre-tared filter was removed from its holder and placed in Container 1 and sealed. (This is usually performed in the lab.)
2. All sample-exposed surfaces prior to the filter were washed with acetone and placed in Container 2, sealed and the liquid level marked.
3. The volume of water from the first three impingers was measured for the purpose of calculating the moisture in the stack gas and then discarded (per EPA Method 4).
4. The used silica gel from the fourth impinger was transferred to the original tared container and sealed.

LABORATORY ANALYSIS

The three sample containers from each sample run were analyzed according to the following procedures:

1. The filter was dried at 105 degrees C for three hours, desiccated for a minimum of one hour, and weighed to the nearest 0.1 mg. A minimum of two such weighings six hours apart was made to determine constant weight.
2. The acetone from Container 2 was transferred to a tared beaker and evaporated to dryness at ambient temperature and pressure, desiccated for 24 hours, and weighed to the nearest 0.1 mg. A minimum of two such weighings six hours apart were made to determine constant weight.
3. The used silica gel in its tared container was weighed to the nearest 0.1 gram.

The total sample weight included the weight of material collected on the filter plus the weight of material collected in the nozzle, sampling probe and front half of the filter holder.

DATA

The field data sheets, calculation sheets, and nomenclature definitions are included in the appendix of this report.

5.4 Visible Emissions Testing--EPA Method 9

The visible emission tests were performed in accordance with EPA Method 9. The observers maintain semi-annual FDEP certification for the performance of visible emission tests and attend the classroom lecture as required.

All procedures listed in Method 9 were followed including observer's position relative to the sun, distance from the stack, and line of sight. These items are noted on the visible emission data sheet. Observations were made at 15-second intervals and recorded to the nearest five percent. The final opacity was determined by calculating the average of the highest consecutive 24 readings of the observation period.

APPENDIX A

**COMPLETE EMISSION DATA
WITH
SAMPLE CALCULATIONS**

**AIR CONSULTING and ENGINEERING, INC.
COMPLETE EMISSION DATA**

COMPANY NAME: EAGLE ROOFING
 LOCATION: SUMTERVILLE, FLORIDA
 SOURCE: BAGHOUSE OUTLET
 DATE: 06-12-07

RUN NUMBER:	1	IMPINGER ml.	35.0
BEGIN TIME (hour : minute):	7:08 AM	SILICA GEL. gms.	12.3
END TIME (hour : minute):	8:38 AM	% O2:	20.90
TOTAL RUN TIME:	72 MINUTES	% CO2:	0.00
BAROMETRIC PRESSURE:	30.24 Inches Hg.	"F" FACTOR:	NA
STACK PRESSURE:	30.19 inches Hg.		
NOZZLE DIAMETER:	0.210 INCHES		
METER CORR. FACTOR:	1.009		
FINAL METER:	391.772 CUBIC FT.		
INITIAL METER:	318.104 CUBIC FT.		
STACK AREA:	3.142 SQ. FT.		
PITOT Cp:	0.84		

PARTICULATE DATA

FILTER mg.:	3.9
WASH mg.:	18.4

EMISSION RESULTS

NOZZLE AREA (SQ. FT.):	0.000241	VOLUMETRIC FLOW(ACFM):	14407
AVG. SQ. RT. VEL. HEAD:	1.3370	VOLUMETRIC FLOW(WVSCFM):	412
AVG. VEL. HEAD (in H2O)	1.7917	VOLUMETRIC FLOW(DSCFM):	13651
AVG. STACK TEMP. (F):	85.6	VOLUMETRIC FLOW(SCFM/wet):	14063
AVG. METER TEMP. (F):	82.1		

PARTICULATE EMISSION DATA:

AVG. ORIFICE DIFFERENTIAL:	3.225		
METER ACF:	73.668		
METER SCF:	73.726	POUNDS PER HOUR:	0.546
MEASURED SCF MOISTURE:	2.226	POUNDS PER SCF.:	6.67E-07
MEASURED MOISTURE %:	2.93	GRAINS PER SCF.:	0.0047
STACK TEMP. (deg. C):	29.8	GRAINS PER SCF @ 7% O2:	#DIV/0!
VAPOR PRESSURE:	1.2	GRAINS PER SCF @ 50% E.A.:	#VALUE!
SATURATION MOISTURE %:	4.07		
PERCENT WATER VAPOR:	2.93		
GAS MOLECULAR WT.(dry):	28.84		
GAS MOLECULAR WT.(wet):	28.52		
PERCENT EXCESS AIR:	NA		
AVERAGE VELOCITY(FPS):	76.4		
MMBTUH(if applicable):	NA		
PERCENT ISOKINETIC:	97.99		

AIR CONSULTING and ENGINEERING, INC.
COMPLETE EMISSION DATA

COMPANY NAME: EAGLE ROOFING
 LOCATION: SUMTERVILLE, FLORIDA
 SOURCE: BAGHOUSE OUTLET
 DATE: 06-12-07

RUN NUMBER:	2	IMPINGER ml.	36.0
BEGIN TIME (hour : minute):	9:02 AM	SILICA GEL. gms.	11.4
END TIME (hour : minute):	10:15 AM	% O2:	20.90
TOTAL RUN TIME:	72 MINUTES	% CO2:	0.00
BAROMETRIC PRESSURE:	30.24 inches Hg.	"F" FACTOR:	NA
STACK PRESSURE:	30.19 inches Hg.		
NOZZLE DIAMETER:	0.210 INCHES		
METER CORR. FACTOR:	1.009		
FINAL METER:	464.351 CUBIC FT.		
INITIAL METER:	392.300 CUBIC FT.		
STACK AREA:	3.142 SQ. FT.		
PITOT Cp:	0.84		

PARTICULATE DATA

FILTER mg.:	5.5
WASH mg.:	12.9

EMISSION RESULTS

NOZZLE AREA (SQ. FT.):	0.000241	VOLUMETRIC FLOW(ACFM):	13944
AVG. SQ. RT. VEL. HEAD:	1.2837	VOLUMETRIC FLOW(WVSCFM):	407
AVG. VEL. HEAD (in H2O)	1.7917	VOLUMETRIC FLOW(DSCFM):	12993
AVG. STACK TEMP. (F):	94.2	VOLUMETRIC FLOW(SCFMwet):	13400
AVG. METER TEMP. (F):	88.7		

PARTICULATE EMISSION DATA:

AVG. ORIFICE DIFFERENTIAL:	3.053		
METER ACF:	72.051		
METER SCF:	71.213	POUNDS PER HOUR:	0.444
MEASURED SCF MOISTURE:	2.231	POUNDS PER SCF.:	5.7E-07
MEASURED MOISTURE %:	3.04	GRAINS PER SCF.:	0.0040
STACK TEMP. (deg. C):	34.5	GRAINS PER SCF @ 7% O2:	#DIV/0!
VAPOR PRESSURE:	1.6	GRAINS PER SCF @ 50% E.A.:	#VALUE!
SATURATION MOISTURE %:	5.33		
PERCENT WATER VAPOR:	3.04		
GAS MOLECULAR WT.(dry):	28.84		
GAS MOLECULAR WT.(wet):	28.51		
PERCENT EXCESS AIR:	NA		
AVERAGE VELOCITY(FPS):	74.0		
MMBTUH(if applicable):	NA		
PERCENT ISOKINETIC:	99.45		

AIR CONSULTING and ENGINEERING, INC.
COMPLETE EMISSION DATA

COMPANY NAME: EAGLE ROOFING
 LOCATION: SUMTERVILLE, FLORIDA
 SOURCE: BAGHOUSE OUTLET
 DATE: 06-12-07

RUN NUMBER:	3	IMPINGER ml.	34.0
BEGIN TIME (hour : minute):	10:32 AM	SILICA GEL. gms.	15.4
END TIME (hour : minute):	11:46 AM	% O2:	20.90
TOTAL RUN TIME:	72 MINUTES	% CO2:	0.00
BAROMETRIC PRESSURE:	30.24 inches Hg.	"F" FACTOR:	NA
STACK PRESSURE:	30.19 inches Hg.		
NOZZLE DIAMETER:	0.210 INCHES		
METER CORR. FACTOR:	1.009		
FINAL METER:	538.746 CUBIC FT.		
INITIAL METER:	464.600 CUBIC FT.		
STACK AREA:	3.142 SQ. FT.		
PITOT Cp:	0.84		

PARTICULATE DATA

FILTER mg.:	5.1
WASH mg.:	11.4

EMISSION RESULTS

NOZZLE AREA (SQ. FT.):	0.000241	VOLUMETRIC FLOW(ACFM):	14015
AVG. SQ. RT. VEL. HEAD:	1.2854	VOLUMETRIC FLOW(WVSCFM):	415
AVG. VEL. HEAD (in H20)	1.7917	VOLUMETRIC FLOW(DSCFM):	12956
AVG. STACK TEMP. (F):	98.2	VOLUMETRIC FLOW(SCFMwet):	13372
AVG. METER TEMP. (F):	94.6		

PARTICULATE EMISSION DATA:

AVG. ORIFICE DIFFERENTIAL:	3.159		
METER ACF:	74.146		
METER SCF:	72.520	POUNDS PER HOUR:	0.390
MEASURED SCF MOISTURE:	2.325	POUNDS PER SCF.:	5.02E-07
MEASURED MOISTURE %:	3.11	GRAINS PER SCF.:	0.0035
STACK TEMP. (deg. C):	36.8	GRAINS PER SCF @ 7% O2:	#DIV/0!
VAPOR PRESSURE:	1.8	GRAINS PER SCF @ 50% E.A.:	#VALUE!
SATURATION MOISTURE %:	6.02		
PERCENT WATER VAPOR:	3.11		
GAS MOLECULAR WT. (dry):	28.84		
GAS MOLECULAR WT. (wet):	28.50		
PERCENT EXCESS AIR:	NA		
AVERAGE VELOCITY(FPS):	74.4		
MMBTUH(if applicable):	NA		
PERCENT ISOKINETIC:	101.56		

AIR CONSULTING and ENGINEERING, INC.

COMPANY NAME: EAGLE ROOFING
 LOCATION: SUMTERVILLE, FLORIDA
 SOURCE: BAGHOUSE OUTLET
 DATE: 06-12-07
 RUN NUMBER: 1 START: 7:08 END: 8:38

SOURCE PARAMETER ENTRIES

PORT-POINT	"Inches"	VELOCITY HEAD	ORIFICE CALC.	DELTA P ACTUAL	STACK TEMP. F	METER TEMP. F
1 - 1	22.95	2.20	3.96	3.96	84	80
1 - 2	20.49	2.00	3.60	3.60	84	80
1 - 3	16.90	1.90	3.42	3.42	84	79
1 - 4	7.10	1.75	3.15	3.15	85	80
1 - 5	3.51	1.65	2.97	2.97	85	81
1 - 6	1.05	1.60	2.88	2.88	85	81
2 - 1		1.90	3.42	3.42	86	82
2 - 2		1.80	3.24	3.24	86	83
2 - 3		1.75	3.15	3.15	87	84
2 - 4		1.65	2.97	2.97	87	85
2 - 5		1.70	3.06	3.06	87	85
2 - 6		1.60	2.88	2.88	87	85

AVERAGES: 1.792 3.225 85.58 82.08

AIR CONSULTING and ENGINEERING, INC.

COMPANY NAME: EAGLE ROOFING
 LOCATION: SUMTERVILLE, FLORIDA
 SOURCE: BAGHOUSE OUTLET
 DATE: 06-12-07
 RUN NUMBER: 2 START: 9:02 END: 10:15

SOURCE PARAMETER ENTRIES

PORT-POINT	VELOCITY	ORIFICE	DELTA P	STACK	METER	
"Inches"	HEAD	CALC.	ACTUAL	TEMP. F	TEMP. F	
1 - 1	22.95	1.75	3.24	3.24	92	86
1 - 2	20.49	1.60	2.96	2.96	92	86
1 - 3	16.90	1.60	2.96	2.96	93	87
1 - 4	7.10	1.70	3.15	3.15	93	87
1 - 5	3.51	1.70	3.15	3.15	94	88
1 - 6	1.05	1.60	2.96	2.96	94	88
2 - 1		1.80	3.33	3.33	94	89
2 - 2		1.80	3.33	3.33	95	89
2 - 3		1.75	3.24	3.24	95	90
2 - 4		1.60	2.96	2.96	96	91
2 - 5		1.50	2.78	2.78	96	91
2 - 6		1.40	2.59	2.59	96	92

AVERAGES: 1.650 3.053 94.17 88.67

AIR CONSULTING and ENGINEERING, INC.

COMPANY NAME: EAGLE ROOFING
 LOCATION: SUMTERVILLE, FLORIDA
 SOURCE: BAGHOUSE OUTLET
 DATE: 06-12-07
 RUN NUMBER: 3 START: 10:32 END: 11:46

SOURCE PARAMETER ENTRIES

PORT-POINT		VELOCITY	ORIFICE	DELTA P	STACK	METER
	"inches"	HEAD	CALC.	ACTUAL	TEMP.F	TEMP.F
1 - 1	22.95	1.70	3.25	3.25	97	92
1 - 2	20.49	1.65	3.15	3.15	97	92
1 - 3	16.90	1.65	3.15	3.15	98	93
1 - 4	7.10	1.70	3.25	3.25	99	93
1 - 5	3.51	1.65	3.15	3.15	99	94
1 - 6	1.05	1.65	3.15	3.15	99	94
2 - 1		1.90	3.63	3.63	98	95
2 - 2		1.75	3.34	3.34	98	95
2 - 3		1.65	3.15	3.15	99	96
2 - 4		1.60	3.06	3.06	98	97
2 - 5		1.50	2.87	2.87	98	97
2 - 6		1.45	2.77	2.77	98	97

AVERAGES: 1.654 3.159 98.17 94.58

AIR CONSULTING and ENGINEERING, INC.
SAMPLE CALCULATIONS

EAGLE ROOFING
SUMTERVILLE, FLORIDA
BAGHOUSE OUTLET
06-12-07

RUN NUMBER: 1
NOZZLE AREA SQ.FT.:

$$\begin{aligned} A_n &= \pi \cdot (R_n)^2 = \pi \cdot (D_n/2)^2 = \pi \cdot [(D_n/2)^2] \cdot [(1\text{ft}/12\text{in})^2] \\ &= \pi \cdot (D_n)^2 / (576) = (3.1416) \cdot [(0.21)^2] / (576) \\ &= 0.000241 \end{aligned}$$

METER ACTUAL CU. FEET:

$$\begin{aligned} V_m &= (V_m \text{ final}) - (V_m \text{ initial}) \\ &= (391.772) - (318.104) \\ &= 73.668 \end{aligned}$$

METER STANDARD CU. FEET:

$$\begin{aligned} V_{mstd} &= (K_1) \cdot (V_m) \cdot (Y) \cdot \{ (P_{bar}) + [(D_{Havg}) / (13.6)] \} / \{ (T_{Mavg}) + (460) \} \\ &= (17.64) \cdot (73.668) \cdot (1.0091) \cdot \{ (30.24) + [(3.23) / (13.6)] \} / \{ (82.1) + (460) \} \\ &= 73.726 \end{aligned}$$

MEASURED SCF MOISTURE:

$$\begin{aligned} V_{Wstd} &= (K_2) \cdot (V_{lc}) \\ &= (0.04707) \cdot (35 + 12.3) \\ &= 2.226 \end{aligned}$$

MEASURED % MOISTURE:

$$\begin{aligned} B_{wm\%} &= \{ (V_{Wstd}) / [(V_{mstd}) + (V_{Wstd})] \} \cdot 100\% \\ &= \{ (2.226) / [(73.726) + (2.226)] \} \cdot 100\% \\ &= 2.93\% \end{aligned}$$

STACK TEMP. Deg C

$$\begin{aligned} T_{sc} &= [(T_{Savg}) - 32] \cdot 5/9 \\ &= [(85.8) - 32] \cdot 5/9 \\ &= 29.8 \end{aligned}$$

VAPOR PRESSURE (in Hg):

$$\begin{aligned} P_v &= \{ 2.718E[18.6866 - 0.00244 \cdot (273 + (T_{sc}))] - 4509.47 / (273 + (T_{sc})) - 149541 / ((273 + (T_{sc}))^2) \} / 3.375 \\ &= \{ 2.718E[18.6866 - 0.00244 \cdot (273 + (29.8))] - 4509.47 / (273 + (29.8)) - 149541 / ((273 + (29.8))^2) \} / 3.375 \\ &= 1.23 \end{aligned}$$

SATURATION MOISTURE %:

$$\begin{aligned} B_{wsat\%} &= (P_v) / (P_s) \cdot 100 \\ &= (1.23) / (30.19) \cdot 100 \\ &= 4.07 \end{aligned}$$

PERCENT WATER VAPOR:

$$\begin{aligned} B_{wo\%} &= B_{wm\%} \quad \text{IF} \quad B_{wm\%} < B_{wsat\%} \\ B_{wo\%} &= B_{wsat\%} \quad \text{IF} \quad B_{wsat\%} < B_{wm\%} \\ &= 2.93 \end{aligned}$$

GAS MOLECULAR WT.(dry):

$$\begin{aligned} M_d &= [(0.440) \cdot (\%CO_2)] + [(0.320) \cdot (\%O_2)] + \{ (0.280) \cdot [(\%N_2) + (\%CO)] \} \\ &= [(0.440) \cdot (\%CO_2)] + [(0.320) \cdot (\%O_2)] + \{ (0.280) \cdot [(100) - (\%CO_2) - (\%O_2)] \} \\ &= [(0.440) \cdot (0)] + [(0.032) \cdot (20.9)] + \{ (0.280) \cdot (79.1) \} \\ &= 28.8 \end{aligned}$$

GAS MOLECULAR WT.(wet):

$$\begin{aligned} M_s &= \{ (M_d) \cdot [1 - (B_{wo\%} / 100)] \} + \{ (18.0) \cdot (B_{wo\%} / 100) \} \\ &= \{ (28.8) \cdot [1 - (0.0293)] \} + \{ (18.0) \cdot (0.0293) \} \\ &= 28.52 \end{aligned}$$

PERCENT EXCESS AIR:

$$\begin{aligned} \%EA &= \{ (\%O_2) / [(0.264) \cdot (\%N_2) - (\%O_2)] \} \cdot (100\%) \\ &= \{ (20.9) / [(0.264) \cdot (79.1) - (20.9)] \} \cdot (100\%) \\ & \quad \#VALUE! \end{aligned}$$

AVERAGE VELOCITY(FPS):
$$VSavg=(85.48)*(Cp)*(ASRVH)*\{[(TSavg)+(460)]/[(Ms)*(Ps)]\}E1/2$$

$$= (85.48)*(0.84)*(1.34)*\{[(85.6)+(460)]/[(28.5)*(30.19)]\}E1/2$$

$$= 76.43$$

PERCENT ISOKINETIC:
$$\%Iso=\{(K4)*(TSavg+460)*(VMstd)/\{(Ps)*(Vs)*(An)*(time)*[1-(Bwo\%/100)]\}\}$$

$$*100$$

$$=\{ (0.09450)*(85.6+460)*(73.726)/\{(30.19)*(76.43)*(0.000241)*(72)*[1-$$

$$(2.93/100)]\}\} *100\%$$

$$= 98$$

VOLUMETRIC FLOW(ACFM):
$$QS=(VSavg)*(As)*(60)$$

$$= (76.43)*(3.142)*(60)$$

$$= 14407$$

VOLUMETRIC FLOW(WVSCFM):
$$WVSCFM=(QS)*(17.64)*(Bwo\%/100)*(Ps)/(TSavg+460)$$

$$= (14407)*(17.64)*(2.93/100)*(30.19)/(85.6+460)$$

$$= 412.2$$

VOLUMETRIC FLOW(DSCFM):
$$QSstd=(QS)*(17.64)*[1-(Bwo\%/100)]*(Ps)/(TSavg+460)$$

$$= (14407)*(17.64)*[1-(2.93/100)]*(30.19)/(85.6+460)$$

$$= 13650.7$$

PARTICULATE EMISSION DATA:

POUNDS PER HOUR:
$$lb/Hr=(mg)*(QSstd)*(60)/[(VMstd)*(453600)]$$

$$= (22.3)*(13650.7)*(60)/[(73.726)*(453600)]$$

$$= 0.546$$

POUNDS PER SCF.:
$$lb/SCF=(lb/Hr)/[(60)*(QSstd)]$$

$$= (0.546)/[(60)*(13650.7)]$$

$$= 0.000001$$

GRAINS PER SCF.:
$$Gr/SCF=(lb/SCF)*(7000)$$

$$= (0.000001)*(7000)$$

$$= 0.005$$

GRAINS PER SCF @ 7% O2:
$$=(Gr/SCF)*(20.9-7.0)/[(20.9)-(\%O2)]$$

$$= (0.005)*(13.9)/[(20.9)-(20.9)]$$

#DIV/0!

GRAINS PER SCF @ 50% E.A.:
$$=(Gr/SCF)*[(100)+(\%EA)]/(150)$$

#VALUE!
#VALUE!

POUNDS PER MMBTU: NA
NA
NA

AIR CONSULTING and ENGINEERING, INC.
NOMENCLATURE

%CO - Percent Carbon Monoxide.
%CO₂ - Percent Carbon Dioxide.
%EA - Percent excess air.
%Iso - Percent isokenetics.
%N₂ - Percent Nitrogen.
%O₂ - Percent Oxygen.
An - Area of the nozzle, square feet.
As - Stack area, square feet.
ASRVH - Average of the square roots of the velocity heads.
Bwm% - Percent water vapor as measured.
Bwo% - Percent water vapor.
Bwsat% - Percent water vapor at saturation.
C₃H₈ - Propane.
CH₄ - Methane.
CO - Carbon Monoxide
CO₂ - Carbon Dioxide
C_p - Pitot coefficient.
C_{so2} - Concentration of Sulfur Dioxide, pounds per dry standard cubic foot.
DHavg - Average meter orifice pressure differential.
Dn - Nozzle diameter.
E - Denotes exponent.
F - Fuel factor, standard cubic feet per million BTU.
Gr/SCF - Grains per dry standard cubic foot.
Hr - Hour.
K₁ - A constant = 17.64.
K₂ - A constant = 0.04707.
K₄ - A constant = 0.09450.
lb - pound.
lb/Hr - pounds per hour.
lb/MMBTU - Pounds per million British Thermal Units.
lb/SCF - Pounds per dry standard cubic foot.
Md - Molecular weight of dry stack gas.
mg - Mass of filter and dried probe wash, milligrams.
MMBTU - million British Thermal Units.
Ms - Molecular weight of wet stack gas.
NO_x - Oxides of Nitrogen.
Pbar - Barometric pressure, inches of Mercury.
Pi - A constant = 3.14159....
PPM - Parts per million.
Ps - Stack pressure, inches Mercury.
Pv - Vapor pressure of water at stack temperature, inches Mercury.
Qs - Volumetric flow rate, actual cubic feet per minute.
QSstd - Volumetric flow rate, dry standard cubic feet per minute.
Rn - Nozzle radius, inches.
SCF - Standard cubic feet.
SO₂ - Sulfur Dioxide.
TMavg - Average meter temperature, degrees Fahrenheit.
TSavg - Average stack temperature, degrees Fahrenheit.
Tsc - Average stack temperature, degrees Celcius.
Vic - Volume of moisture collected in the impingers and silica gel, milliliters.
Vm - Metered volume, actual cubic feet.
Vm final - Final meter reading, actual cubic feet.
Vm initial - Initial meter reading, actual cubic feet.
VMstd - Metered volume corrected to standard conditions, standard cubic feet.
VOC - Volatile organic compounds.
VSavg - Average stack velocity, feet per second.
VWstd - Standard volume of water vapor, standard cubic feet.
VWSCFM - Volumetric flow rate of water vapor, standard cubic feet per minute.
Y - Meter correction factor.

APPENDIX B

FIELD DATA SHEETS

PLANT EAGLE Roofing
 SOURCE Dust Collector Baghouse
 PLANT LOCATION Sumterville, FL.
 TYPE OF SAMPLING TRAIN EPA-5
 TYPE OF SAMPLES PM
 DATE 6-12-07 RUN NUMBER 1
 TIME START 0708 TIME END 0838
 SAMPLE TIME 6, 12 (MIN/PT) = 72 TOTAL MIN
 ASSUMED MOISTURE(%) 3 FDA 0.97
 NOMOGRAPH Cf 1.80 PITOT Cf. 0.84
 Pb ("Hg) 30.24 Ps ("Hg) 30.15
 WEATHER Scat. TEMP (F) 78
 METER BOX NO. 1 H 1.6297 V 1.0091
 NOZZLE IDENTIFICATION NO. Box # 3
 NOZZLE CAL. .210, .210, .209 = 0.210
 STACK DIMENSIONS 24"
 STACK AREA (FT²) 3.142 EFFECTIVE (FT²) 3.142
 STACK DIAMETERS: (UPSTREAM) 2 (DOWNSTREAM) 8
 PORT SIZE 3" NIPPLE LENGTH N/A
 STACK HEIGHT (FT) ~26' UMBILICAL LENGTH 100'
 AGENCY OBSERVER(S) Bret Galbraith/Joseph Graham
 TEST COORDINATOR(S) Gary Maclove
 V. E. OBSERVER Steve Bell



2106 NW 67TH PLACE, SUITE 4
 GAINESVILLE, FLORIDA 32653
 (352) 335-1889 - OFFICE / (352) 335-1891 - FAX

STACK CONFIGURATION

Stat. = -1.2

REMARKS: 0753-Stopped test, 0809 Resume
4" H2O in baghouse

TEST ID _____
 PAGE 1 OF 2

MATERIAL PROCESSING RATE _____
 GAS METER READINGS: FINAL 391.772 (FT3)
 INITIAL 318.104 (FT3)
 NET 73.668 (FT3)
 FILTER NO. 3147 IMP. VOL. GAIN 35±0 (ml)
 SILICA GEL NO. 453 WT. GAIN 12.3 (ml)
 TOTAL CONDENSATE 47.3 (ml)

ORSAT	1	2	3	4	AVG.
%CO2					0.0
%O2					20.9
%CO					
%N2					

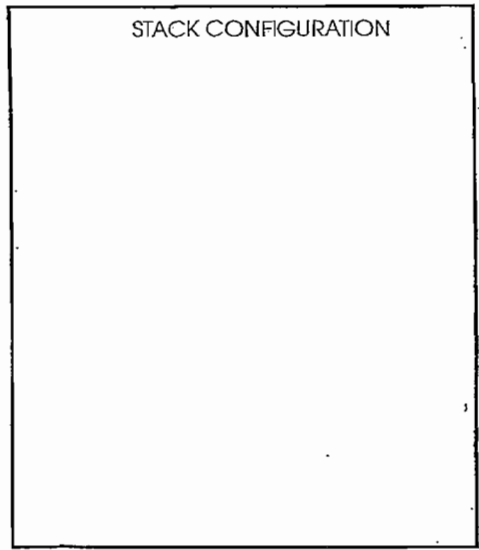
Fo = N/A Fo RANGE = N/A ORSAT ANALYZER N/A
 LEAK CHECKS
 PRE 0.00 CFM 15 ("Hg) POST 0.00 CFM 10 ("Hg)
 METER BOX/PUMP GAS SYSTEM ORSAT BAG N/A
 PITOT TUBE NO. 46 PRE-TEST LEAK CHECK OK
 POST TEST (+) 4.0 , 0.0 "H2O (15 SECONDS)
 POST TEST (-) 3.0 , 0.0 "H2O (15 SECONDS)
 PYROMETER NUMBER 1
 BOX OPERATOR RESHARD PROBE HOLDER Gelston

PORT & TRAVERSE PT. NUMBER	COMMENTS	CLOCK TIME	GAS METER READING (FT3)	STACK VELOCITY HEAD	METER ORIFICE PRESS. DIFF. ("H2O)		STACK GAS TEMP (F)	SAMPLE BOX TEMP (F)	LAST IMPINGER TEMP (F)	DRY GAS METER TEMP (F)	VACUUM ON SAMPLE TRAIN ("Hg)
					CALC.	ACTUAL					
1-1		0714	324.800	2.20	3.96	3.96	84	250	58	80	5.5
2		20	331.500	2.00	3.60	3.60	84	249	57	80	5.0
3		26	337.810	1.90	3.42	3.42	84	249	56	79	5.0
4		32	344.010	1.75	3.15	3.15	85	250	55	80	5.0
5		38	349.800	1.65	2.97	2.97	85	250	55	81	4.5
6		0744	355.459	1.60	2.88	2.88	85	252	55	81	4.5

PLANT EAGLE Roofing
 SOURCE Dust Collector Baghouse
 PLANT LOCATION Sumterville, FL
 TYPE OF SAMPLING TRAIN EPA-5
 TYPE OF SAMPLES PM
 DATE 6-12-07 RUN NUMBER 2
 TIME START 0902 TIME END 1015
 SAMPLE TIME 6, 12 (MIN/PT) = 72 TOTAL MIN
 ASSUMED MOISTURE(%) 3 FDA 0.97
 NOMOGRAPH Cf 1.85 PITOT Cf. 0.84
 Pb ("Hg) 30.24 Ps ("Hg) 30.15
 WEATHER Scat. TEMP (F) 84
 METER BOX NO. 1 H 1.6297 Y 1.0091
 NOZZLE IDENTIFICATION NO. BOX # 3
 NOZZLE CAL. .210, .210, .209 = 0.210
 STACK DIMENSIONS 24"
 STACK AREA (FT²) 3.142 EFFECTIVE (FT²) 3.142
 STACK DIAMETERS:(UPSTREAM) 2 (DOWNSTREAM) 8
 PORT SIZE 3" NIPPLE LENGTH N/A
 STACK HEIGHT (FT) ~26' UMBILICAL LENGTH 100'
 AGENCY OBSERVER(S) _____
 TEST COORDINATOR(S) _____
 V. E. OBSERVER Steve Bell



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REMARKS: _____

TEST ID _____
 PAGE 1 OF _____

MATERIAL PROCESSING RATE _____
 GAS METER READINGS: FINAL 464.351 (FT3)
 INITIAL 392.300 (FT3)
 NET 72.051 (FT3)
 FILTER NO. 3148 IMP. VOL. GAIN 36 (ml)
 SILICA GEL NO. 543 WT. GAIN 11.4 (ml)
 TOTAL CONDENSATE 47.4 (ml)

ORSAT	1	2	3	4	AVG.
%CO ₂					0.0
%O ₂					20.9
%CO					
%N ₂					

Fo = N/A Fo RANGE = N/A ORSAT ANALYZER N/A
 LEAK CHECKS
 PRE 0.00 CFM 17 ("Hg) POST 0.00 CFM 8 ("Hg)
 METER BOX/PUMP GAS SYSTEM ORSAT BAG N/A
 PITOT TUBE NO. 46 PRE-TEST LEAK CHECK OK
 POST TEST (+) 3.0 / 0.0 "H₂O (15 SECONDS)
 POST TEST (-) 4.0 / 0.0 "H₂O (15 SECONDS)
 PYROMETER NUMBER 1
 BOX OPERATOR Reshard PROBE HOLDER Gelston

PORT & TRAVERSE PT. NUMBER	COMMENTS	CLOCK TIME	GAS METER READING (FT3)	STACK VELOCITY HEAD	METER ORIFICE PRESS. DIFF. ("H ₂ O)		STACK GAS TEMP (F)	SAMPLE BOX TEMP (F)	LAST IMPINGER TEMP (F)	DRY GAS METER TEMP (F)	VACUUM ON SAMPLE TRAIN ("Hg)
					CALC.	ACTUAL					
1-1		0908	398.360	1.75	3.24	3.24	92	254	58	86	5.0
2		14	404.290	1.60	2.96	2.96	92	252	57	86	5.0
3		20	410.080	1.60	2.96	2.96	93	253	57	87	5.0
4		26	416.200	1.70	3.15	3.15	93	251	56	87	5.0
5		32	422.310	1.70	3.15	3.15	94	250	56	88	5.0
6		38	428.383	1.60	2.96	2.96	94	251	56	88	4.5

PLAN: EAGLE Roofing
 SOURCE: Dust Collector Baghouse
 PLANT LOCATION: Sumterville, FL.
 TYPE OF SAMPLING TRAIN: EPA-5
 TYPE OF SAMPLES: PM
 DATE: 6-12-07 RUN NUMBER: 3
 TIME START: 1032 TIME END: 1146
 SAMPLE TIME: 6, 12 (MIN/PT) = 72 TOTAL MIN
 ASSUMED MOISTURE(%) 3 FDA 0.97
 NOMOGRAPH Cf: 1.91 PITOT Cf: 0.84
 Pb ("Hg): 30.24 Ps ("Hg): 30.15
 WEATHER: Scat. TEMP (F): 88
 METER BOX NO. 1 H 1.6297 V 1.0091
 NOZZLE IDENTIFICATION NO. Box # 3
 NOZZLE CAL. .210, .210, .209 = 0.210
 STACK DIMENSIONS 24"
 STACK AREA (FT²) 3.142 EFFECTIVE (FT²) 3.142
 STACK DIAMETERS:(UPSTREAM) 2 (DOWNSTREAM) 8
 PORT SIZE 3" NIPPLE LENGTH N/A
 STACK HEIGHT (FT) ~ 26' UMBILICAL LENGTH 100'
 AGENCY OBSERVER(S) _____
 TEST COORDINATOR(S) _____
 V. E. OBSERVER Steve Bell



2106 NW 67TH PLACE, SUITE 4
 GAINESVILLE, FLORIDA 32653
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STACK CONFIGURATION

REMARKS: _____

TEST ID _____
 PAGE 1 OF 2

MATERIAL PROCESSING RATE _____
 GAS METER READINGS: FINAL 538,746 (FT3)
 INITIAL 464.600 (FT3)
 NET 74.146 (FT3)
 FILTER NO. 3149 IMP. VOL GAIN 34.0 (ml)
 SILICA GEL NO. 78 WT. GAIN 15.4 (ml)
 TOTAL CONDENSATE 49.4 (ml)

ORSAT	1	2	3	4	AVG.
%CO2					0.0
%O2					20.9
%CO					
%N2					

Fo = N/A Fo RANGE = N/A ORSAT ANALYZER N/A
 LEAK CHECKS
 PRE 0.0 CFM 15 ("Hg) POST 0.00 CFM 10 ("Hg)
 METER BOX/PUMP GAS SYSTEM ORSAT BAG N/A
 PITOT TUBE NO. 46 PRE-TEST LEAK CHECK OK
 POST TEST (+) 4.0, 0.0 "H2O (15 SECONDS)
 POST TEST (-) 3.0, 0.0 "H2O (15 SECONDS)
 PYROMETER NUMBER 1
 BOX OPERATOR REGHARD PROBE HOLDER GELSTON

PORT & TRAVERSE PT. NUMBER	COMMENTS	CLOCK TIME	GAS METER READING (FT3)	STACK VELOCITY HEAD	METER ORIFICE PRESS. DIFF.(H2O)		STACK GAS TEMP (F)	SAMPLE BOX TEMP (F)	LAST IMPINGER TEMP (F)	DRY GAS METER TEMP (F)	VACUUM ON SAMPLE TRAIN (HG)
					CALC.	ACTUAL					
1-1		1038	470.400	1.70	3.25	3.25	97	252	58	92	5.0
2		44	476.670	1.65	3.15	3.15	97	254	58	92	5.0
3		50	482.940	1.65	3.15	3.15	98	255	58	93	5.5
4		56	489.230	1.70	3.25	3.25	99	256	57	93	5.5
5		02	495.420	1.65	3.15	3.15	99	253	57	94	5.5
6		1108	501.538	1.65	3.15	3.15	99	254	57	94	5.5

APPENDIX C

LABORATORY PM ANALYSIS

AIR CONSULTING & ENGINEERING, INC.

PARTICULATE LAB DATA ANALYSIS

CLIENT / SOURCE IDENTIFICATION EAGLE Roofing, Dust Collector Baghouse

BALANCE CHECK:

1ST GROSS WT. - 0.0 0.0 0.5 0.5001 10.0 10.0001 100.0 99.9999 DATE 6-14-07 TIME 1410 %RH 38 TEMP 68 BY: (INIT.) CR
 2ND GROSS WT. - 0.0 0.0 0.5 0.5000 10.0 10.0001 100.0 99.9999 DATE 6-15-07 TIME 0920 %RH 38 TEMP 69 BY: (INIT.) CR

RUN I.D.	FILTER/ CONT. NO.	VOLUME (ml)	1ST GROSS WT. (gm)	2ND GROSS WT. (gm)	AVG. GROSS WT. (gm)	TARE WT. (gm)	SUB NET WT. (gm)	BLANK (gm)	NET WT. (mg)
1	3147	N/A	0.4303	0.4304	0.4304	0.4265	0.0039		3.9
2	3148		0.4237	0.4235	0.4236	0.4181	0.0055		5.5
3	3149	↓	0.4304	0.4302	0.4303	0.4282	0.0051		5.1
1	5	145	106.0679	106.0681	106.0680	106.0496	0.0184		18.4
2	6	155	105.5207	105.5205	105.5206	105.5077	0.0129		12.9
3	7	130	104.8622	104.8621	104.8622	104.8508	0.0114		11.4
Blank	3150	N/A	0.4276	0.4277	0.4277	0.4277	0.0000		0.0
Blank	4	150	108.6549	108.6548	108.6549	108.6540	0.0009		0.9

NOTES:

APPENDIX D

**PLANT PRODUCTION
CERTIFICATION**



Eagle Roofing Products Florida LLC
A subsidiary of Burlingame Industries, Inc.

*Manufacturing
and Showroom*

1575 E. C.R. 470
Sumterville, FL 33585
Phone 877 300 3245
Fax 877 300 3248

Administrative Offices

3546 N. Riverside Ave.
Rialto, CA 92377
Phone 909 822 6000
Fax 909 822 3516

Monday, June 18, 2007

Dagmar Fick
ACE
2106 NW 67th Place, Suite 4
Gainesville, Florida 32653

RE: FDEP Testing Updates

Dear Ms. Fick,

Attached is the required information for testing of emissions points E.U. 004, 005 & 006. This should conclude our testing for our initial reporting. We will need your final report back to us for submittal as soon as possible. Please contact me with any questions regarding this information.

Regards;

Gary L. Manlove
Director of Manufacturing

Cc: Victor Torcat, Robert Sena, Seamus Burlingame



Eagle Roofing Products Florida LLC
A subsidiary of Burlingame Industries, Inc.

*Manufacturing
and Showroom*

1575 E. CR 470
Sumterville, FL 33585
Phone 877 300 3245
Fax 877 300 3248

Administrative Offices

3546 N. Riverside Ave.
Rialto, CA 92377
Phone 909 822 6000
Fax 909 822 3516

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

D6. Production Rate During VE Test

- A. Eagle Roofing Products Florida LLC, 1575 E CR 470, Sumterville, Florida 33585 / Emission Unit (004)
- B. Lines 1 (Eagle 17), 2 (Eagle 18) & 3 (Eagle 19) were operational during testing
 - a. Line #4 (Eagle 20) has not been installed at this time
- C. Start Time – 7:30 AM / Stop Time – 9:00 AM
- D. SAND – 85.59 Tons/Hour
- E. CEMENT - 26.76 Tons/Hour
- F. 112.35 Tons / Hour – Combined transfer rate during test

REJECT TILE RECYCLING CRUSHER SYSTEM **(E.U. 005)**

E8. VSI Crusher throughput rate during VE Test

- A. Eagle Roofing Products Florida LLC, 1575 E CR 470, Sumterville, Florida 33585 / Emission Unit (004)
- B. Start Time – 7:30 AM / Stop Time 11:00 AM (3 ½ hours total run-time)
- C. 36 Tons / Throughput
- D. Tons (# buckets x 2/tons each) divided by total hours run = Tons/Hour
 - a. "We loaded 3 trucks with 12 total buckets. Each truck pre-weighed and then weighed loaded. The average weight per bucket was determined at 2/tons each"
- E. 10.28 Tons/Hour – Total VSI throughput rate

APPENDIX E

VISIBLE EMISSION DATA



VISIBLE EMISSION OBSERVATION FORM

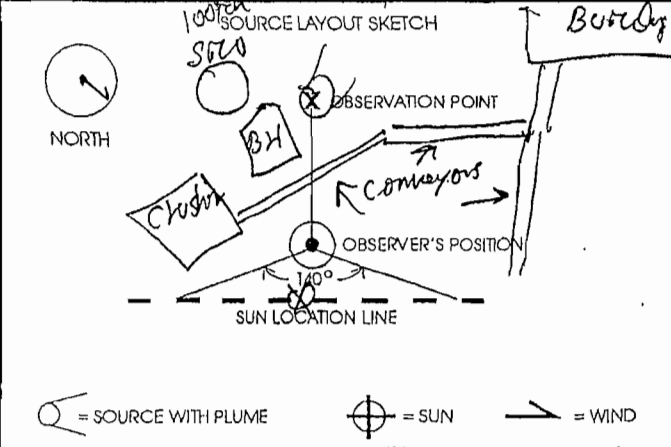
START TIME: 07:02 END TIME: 08:44

OBSERVATION DATE: 6-12-07 TIME ZONE: PAGE 1 OF 3

COMPANY NAME: Eagle Ridge Products
 SOURCE: Dust Collector Baghouse (STACK) 205
 ADDRESS: 1575 E. CR. 420
 CITY: Sumterville STATE: FL ZIP: 33588
 PHONE: 352 569 5401 SOURCE ID NO.
 PROCESS: MAM Dust collector OPERATING MODE: 100%
 CONTROL EQUIPMENT: Baghouse OPERATING MODE: AUTOMATIC, 4" H₂O
 DESCRIBE EMISSION POINT: Round Silver Stack West of the Baghouse
 HEIGHT OF EMISSION POINT: START 20 FT END 20 FT HEIGHT RELATIVE TO OBSERVER: START 77 FT END 117 FT
 DISTANCE TO EMISSION POINT: START 30 FT END 30 FT DIRECTION TO EM. PT. (DEGREES): START 238° END 238°
 VERTICAL ANGLE TO OBS. PT.: START 20° END 20° DIRECTION TO OBS. PT. (DEGREES): START Same END Same
 DISTANCE AND DIRECTION TO OBS. PT. FROM EM. PT.: START Same END Same
 DESCRIBE EMISSIONS: START Clear END Clear
 EMISSION COLOR: START Clear END WATER DROPLET PLUME: NONE
 DESCRIBE PLUME BACKGROUND: START Sky END Sky
 BACKGROUND COLOR: START Blue END Blue SKY CONDITIONS: START Clear END Broken
 WIND SPEED: START Calm END Same WIND DIRECTION: START N/A END N/A
 AMBIENT TEMPERATURE: START 75°F END 75°F WET BULB TEMP.: 74 %RH: 99

MIN	SEC	0	15	30	45	MIN	SEC	0	15	30	45
1	0	0	0	0	0	31	0	0	0	0	0
2	0	0	0	0	0	32	0	0	0	0	0
3	0	0	0	0	0	33	0	0	0	0	0
4	0	0	0	0	0	34	0	0	0	0	0
5	0	0	0	0	0	35	0	0	0	0	0
6	0	0	0	0	0	36	0	0	0	0	0
7	0	0	0	0	0	37	0	0	0	0	0
8	0	0	0	0	0	38	0	0	0	0	0
9	0	0	0	0	0	39	0	0	0	0	0
10	0	0	0	0	0	40	0	0	0	0	0
11	0	0	0	0	0	41	0	0	0	0	0
12	0	0	0	0	0	42	0	0	0	0	0
13	0	0	0	0	0	43	0	0	0	0	0
14	0	0	0	0	0	44	0	0	0	0	0
15	0	0	0	0	0	45	0	0	0	0	0
16	0	0	0	0	0	46	0	0	0	0	0
17	0	0	0	0	0	47	0	0	0	0	0
18	0	0	0	0	0	48	0	0	0	0	0
19	0	0	0	0	0	49	0	0	0	0	0
20	0	0	0	0	0	50	0	0	0	0	0
21	0	0	0	0	0	51	0	0	0	0	0
22	0	0	0	0	0	52	0	0	0	0	0
23	0	0	0	0	0	53	0	0	0	0	0
24	0	0	0	0	0	54	0	0	0	0	0
25	0	0	0	0	0	55	0	0	0	0	0
26	0	0	0	0	0	56	0	0	0	0	0
27	0	0	0	0	0	57	0	0	0	0	0
28	0	0	0	0	0	58	0	0	0	0	0
29	0	0	0	0	0	59	0	0	0	0	0
30	0	0	0	0	0	60	0	0	0	0	0

075
←
180°



OBSERVER'S NAME (PRINT): STEPHEN S. BELL
 OBSERVER'S SIGNATURE: [Signature] DATE: 6-12-07
 ORGANIZATION: Air Consulting and Engineering
 CERTIFIED BY: E.T.A. DATE: 5-31-07
 COMMENTS: Concomitant with Run 1 P.M.
 Metal Detector Triped out @ 07:55



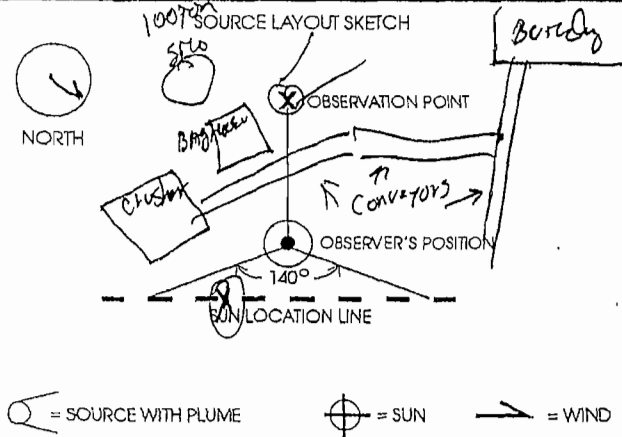
VISIBLE EMISSION OBSERVATION FORM

START TIME: 09:04 END TIME: 10:04

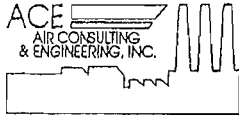
OBSERVATION DATE: 6-12-07 TIME ZONE: PAGE 2 OF 3

SEC MIN	0				15				30				45			
	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45
1	0	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	33	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	36	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	39	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	41	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	42	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	43	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	44	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	45	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	46	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	47	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	48	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	49	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	51	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	52	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	53	0	0	0	0	0	0	0	0	0	0	0
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25	0	0	0	0	55	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	56	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	57	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	58	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	59	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0

COMPANY NAME: Eagle Roofing Products
 SOURCE: DUST collector Bayhouse CSTack 5005 006
 ADDRESS: 1575 E. C.R. 470
 CITY: Sempronville STATE: FL. ZIP: 33588
 PHONE: 352 569 5401 SOURCE ID NO.:
 PROCESS: M/M
 OPERATING MODE: 100%
 CONTROL EQUIPMENT: Bayhouse
 OPERATING MODE: AUTOMATIC, 4" H2O
 DESCRIBE EMISSION POINT: Round ST Luv 3000k
 WEST OF THE Bayhouse
 HEIGHT OF EMISSION POINT: START 70FT END 70FT
 HEIGHT RELATIVE TO OBSERVER: START 77FT END 77FT
 DISTANCE TO EMISSION POINT: START 30FT END 30FT
 DIRECTION TO EM. PT. (DEGREES): START 238°m END 238°m
 VERTICAL ANGLE TO OBS. PT.: START 20° END 20°
 DIRECTION TO OBS. PT. (DEGREES): START SAME END SAME
 DISTANCE AND DIRECTION TO OBS. PT. FROM EM. PT.: START SAME END SAME
 DESCRIBE EMISSIONS: START Clear END Clear
 EMISSION COLOR: START Clear END Clear
 WATER DROPLET PLUME: NONE
 ATTACHED: DETACHED
 DESCRIBE PLUME BACKGROUND: START Sky END Sky
 BACKGROUND COLOR: START Blue END Blue
 SKY CONDITIONS: START Clear END Scattered
 WIND SPEED: START Calm END 0-3 mph
 WIND DIRECTION: START N/A END 270°m
 AMBIENT TEMPERATURE: START 83°F END 85°F
 WET BULB TEMP.: 82°F
 %RH: 99



OBSERVER'S NAME (PRINT): STEPHEN S. BELL
 OBSERVER'S SIGNATURE: [Signature] DATE: 6-12-07
 ORGANIZATION: ACE CONSULTING AND ENGINEERING
 CERTIFIED BY: ETA DATE: 5-31-07
 COMMENTS: Concerns with Run 2 PM



VISIBLE EMISSION OBSERVATION FORM

START TIME: 10:38 END TIME: 11:38

OBSERVATION DATE: 6-12-07 TIME ZONE: PAGE 3 OF 3

COMPANY NAME Eagle Roofing Products

SOURCE Dust collector bayhouse (S774th) 805,006

ADDRESS 1575 E. CR. 470

CITY Sebring STATE FL ZIP 33585

PHONE 352-569-540 SOURCE ID NO.

PROCESS NAME DUST collector OPERATING MODE 100%

CONTROL EQUIPMENT BA-house OPERATING MODE AUTOMATIC, 4" H₂O

DESCRIBE EMISSION POINT Round silo w/ 5" dia
west of the Bayhouse

HEIGHT OF EMISSION POINT START 20 FT END 20 FT HEIGHT RELATIVE TO OBSERVER START 77 FT END 11 FT

DISTANCE TO EMISSION POINT START 30 FT END 30 FT DIRECTION TO EM. PT. (DEGREES) START 238° END 238°

VERTICAL ANGLE TO OBS. PT. START 20° END 20° DIRECTION TO OBS. PT. (DEGREES) START SAME END SAME

DISTANCE AND DIRECTION TO OBS. PT. FROM EM. PT. START SAME END SAME

DESCRIBE EMISSIONS START Clear END Clear

EMISSION COLOR START Clear END Clear WATER DROPLET PLUME NONE

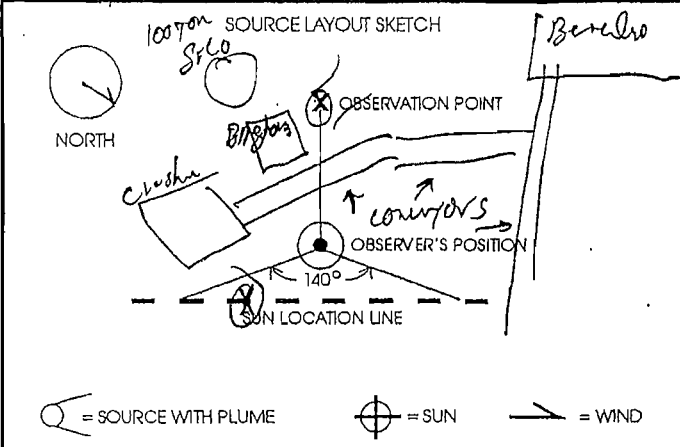
DESCRIBE PLUME BACKGROUND START Sky END Sky

BACKGROUND COLOR START Blue END Blue SKY CONDITIONS START Scattered END Scattered

WIND SPEED START 0-3 mph END 0-3 mph WIND DIRECTION START 270° END 290°

AMBIENT TEMPERATURE START 85°F END WET BULB TEMP. 84°F %RH

SEC	0	15	30	45	SEC	0	15	30	45
1	0	0	0	0	31	0	0	0	0
2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
4	0	0	0	0	34	0	0	0	0
5	0	0	0	0	35	0	0	0	0
6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
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27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0



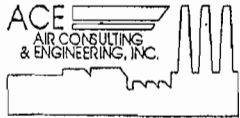
OBSERVER'S NAME (PRINT) STEPHEN S. BELL

OBSERVER'S SIGNATURE Stephen S. Bell DATE 6-12-07

ORGANIZATION Air consulting and engineering

CERTIFIED BY EJA DATE 5-31-07

COMMENTS Consent with Run 3 P.M.



VISIBLE EMISSION OBSERVATION FORM

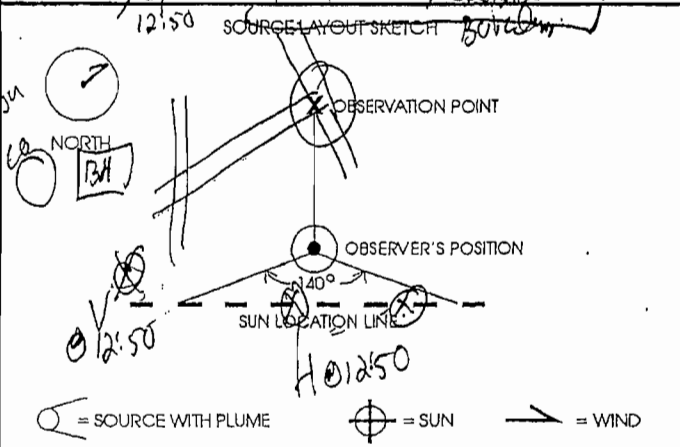
START TIME: 07:02 END TIME: 13:15

OBSERVATION DATE: 6-12-07 TIME ZONE: PAGE 1 OF 1

SEC MIN	SEC				SEC MIN	SEC			
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2	0	0	0	0	32	0	0	0	0
3	0	0	0	0	33	0	0	0	0
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6	0	0	0	0	36	0	0	0	0
7	0	0	0	0	37	0	0	0	0
8	0	0	0	0	38	0	0	0	0
9	0	0	0	0	39	0	0	0	0
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14	0	0	0	0	44	0	0	0	0
15	0	0	0	0	45	0	0	0	0
16	0	0	0	0	46	0	0	0	0
17	0	0	0	0	47	0	0	0	0
18	0	0	0	0	48	0	0	0	0
19	0	0	0	0	49	0	0	0	0
20	0	0	0	0	50	0	0	0	0
21	0	0	0	0	51	0	0	0	0
22	0	0	0	0	52	0	0	0	0
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24	0	0	0	0	54	0	0	0	0
25	0	0	0	0	55	0	0	0	0
26	0	0	0	0	56	0	0	0	0
27	0	0	0	0	57	0	0	0	0
28	0	0	0	0	58	0	0	0	0
29	0	0	0	0	59	0	0	0	0
30	0	0	0	0	60	0	0	0	0

COMPANY NAME: Eagle Roofing Products
 SOURCE: BC-28 TO BC-5 DROP POINT (EP 14)
 ADDRESS: 1575 E. CR 470
 CITY: Spartanville STATE: SC ZIP: 29585
 PHONE: 352-5695409 SOURCE ID NO.:
 PROCESS: Conveyor Belt XFR point OPERATING MODE:
 CONTROL EQUIPMENT: N/A OPERATING MODE:
 DESCRIBE EMISSION POINT: conveyor XFR point NORTH OF Bldg house and EAST OF Building
 HEIGHT OF EMISSION POINT: START 3 FT END 3 FT HEIGHT RELATIVE TO OBSERVER: START 6 FT END 6 FT
 DISTANCE TO EMISSION POINT: START 25 FT END 25 FT DIRECTION TO EM. PT. (DEGREES): START 296° END 296°
 VERTICAL ANGLE TO OBS. PT.: START -15° END -15° DIRECTION TO OBS. PT. (DEGREES): START SAME END SAME
 DISTANCE AND DIRECTION TO OBS. PT. FROM EM. PT.: START SAME END SAME
 DESCRIBE EMISSIONS: START Clear END Clear
 EMISSION COLOR: START Clear END WATER DROPLET PLUME: NONE ATTACHED: FV 9° DETACHED:
 DESCRIBE PLUME BACKGROUND: START TAN Building END TAN Building
 BACKGROUND COLOR: START TAN END TAN SKY CONDITIONS: START Clear END Scattered
 WIND SPEED: START CALM END 0-3 mph WIND DIRECTION: START N/A END 290°
 AMBIENT TEMPERATURE: START 75.89 END 89 WET BULB TEMP.: 74.82 %RH: 12:50

S:10
 Full
 07:37
 12:25



OBSERVER'S NAME (PRINT): STEPHEN S. Bell
 OBSERVER'S SIGNATURE: [Signature] DATE: 6-12-07
 ORGANIZATION: Air Consulting and Engineering
 CERTIFIED BY: ETA DATE: 5-31-07
 COMMENTS: Fugitive Emission point

VISIBLE EMISSIONS EVALUATOR

This is to certify that

Stephen Bell, Sr.

meets the specifications of Federal Reference Method 9 and qualified as a visible emissions evaluator. Maximum deviation on white and black smoke did not exceed 7.5% opacity and no single error exceeding 15% opacity was incurred during the certification test conducted by Eastern Technical Associates of Raleigh, North Carolina. This certificate is valid for six months from date of issue.

<i>342323</i>	<i>Orlando, Florida</i>	<i>August 9, 2006</i>
Certificate Number	Location	Date of Issue
<i>Thomas Ford</i>	<i>Michael W. Sanford</i>	
President	Director of Training	

EASTERN TECHNICAL ASSOCIATES
STEPHEN BELL SR

meets the specifications of Federal Reference Method 9 and qualifies as a visible emissions evaluator. Maximum deviation on white and black smoke did not exceed 7.5% opacity and no single error exceeding 15% opacity was incurred during the certification test conducted by Eastern Technical Associates of Raleigh, NC. This certificate is valid for six months from date of issue and expires on the date below.

8/9/06 2/8/07 TMPF03
DATE OF SCHOOL EXPIRATION DATE LAST LECTURE

342323 *Michael W. Sanford*
CERTIFICATE NUMBER TRAINING MANAGER BEARING

NEW INFORMATION ON YOUR WALLET CARD

To serve our customers better, we have added your LAST LECTURE date for your convenience. The first 3 digits are the location, S for Spring or F for Fall, and the year. January - June are spring schools and July - December are fall schools.

If you have questions or comments, please contact:

Debbie Scalise, or Sheila Weathersbee
Customer Support

919-878-3188
www.eta-is-opacity.com

PO BOX 1009
GARNER, NC 27529-1009



UNIVERSITY OF
FLORIDA

TREEO CENTER

Center for Training, Research and Education for Environmental Occupations

certifies that

Stephen Bell

attended

Florida's Smoke School:

Visible Emissions Evaluation Training

November 30, 2005

and is awarded this

Certificate of Attendance

(This certificate expires 3 years from the date of issue.)

Date issued: 11/30/2005

CEU's: 0.8

William T. Engel, Jr., PhD

Director

(352) 392-9570

APPENDIX F

QUALITY ASSURANCE

DRY GAS METER CALIBRATION STANDARD

Air Consulting and Engineering, Inc. (ACE) uses a Precision Scientific model 63123 wet test meter (Serial Number PS 001105) as its dry gas meter calibration standard.

The wet test meter has a one cubic foot per revolution capacity and is verified by water displacement annually. The latest verification occurred September 22, 2006

AIR CONSULTING AND ENGINEERING, INC.

WET TEST METER ANNUAL CALIBRATION

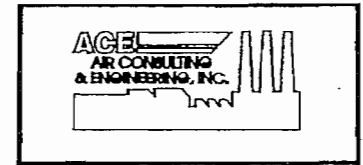
DATE 9-22-06 CALIBRATED BY C. RESHARD WET TEST METER SERIAL NUMBER PSC 01105
 RANGE OF WET TEST METER FLOW RATE 0-120 (l/min) VOLUME OF TEST FLASK 28.32 (V_s) SATISFACTORY LEAK CHECK?
 Ambient Temperature of Equillberate Liquid In Wet Test Meter and Reservoir 60 (Deg. F)

TEST NUMBER	FINAL VOLUME (V _f), (l)	INITIAL VOLUME (V _i), (l)	TOTAL VOLUME (V _m), b (l)	FLASK VOLUME (V _s), (l)	PERCENT ERROR, c %
1	28.29	0.0	28.29	28.32	-0.11
2	28.30	0.0	28.30	28.32	-0.07
3	28.29	0.0	28.29	28.32	-0.11

CALCULATIONS:

b $V_m = V_f - V_i$

c % Error = $100 (V_m - V_s) / V_s = -0.09$ (+/- 1%)



WET TEST METER CALIBRATION

<u>TEST #</u>	<u>FINAL V</u> (VF) (L)	<u>INIT V</u> (VI) (L)	<u>TOTAL V</u> (VM) (L)	<u>FLASK V</u> (VS) (L)	<u>% ERROR</u> (+or - 1%)
1	28.29	0	28.29	28.32	-0.11
2	28.30	0	28.30	28.32	-0.07
3	28.29	0	28.29	28.32	-0.11
AVG.	28.29	0	28.29	28.32	-0.09

CALCULATIONS:

$$VM = VF - VI$$

$$\% \text{ ERROR} = 100 (VM - VS) / VS \quad (+ \text{ OR } - 1 \%)$$

VF - VOLUME FINAL

VI - VOLUME INITIAL

VM - VOLUME METER

VS - VOLUME FLASK

$$\% \text{ ERROR RANGE} = 28.03 - 28.60$$

AIR CONSULTING AND ENGINEERING, INC.

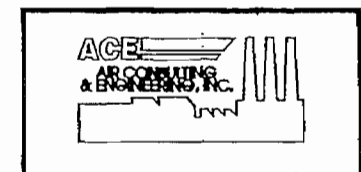
ANNUAL METER CALIBRATION

DATE 1-18-07 CALIBRATED BY C. RESHARD LEAK CHECK 0.00 CFM at 15 ("Hg)
 METER BOX NUMBER 1 BAROMETRIC PRESSURE (" Hg) 30.08
 DRY GAS METER TEMPERATURE (F) 67 ASTM GLASS THERMOMETER TEMPERATURE (F) 67

HS	AVERAGE HD	GAS VOLUME, WET TEST METER			GAS VOLUME, DRY GAS METER			TEMP. WET METER (F)	TEMP. DRY METER (F)	TIME (MIN)	TIMER (MIN)
		INITIAL	FINAL	ACTUAL (FT3)	INITIAL	FINAL	ACTUAL (FT3)				
-0.44	2.0	1,974	7.639	5.665	434.052	439.702	5.650	61	67	7	7
-0.25	0.5	8.497	13.901	5.404	440.573	445.956	5.383	61	68	13	13
-0.56	3.0	14.864	20.806	5.942	446.922	452.888	5.966	61	69	6	6
-0.30	1.0	21.406	26.642	5.236	453.502	458.752	5.250	61	70	9	9
-0.70	4.0	27.724	33.396	5.672	459.838	465.561	5.723	60	71	5	5
-0.33	1.5	34.136	39.742	5.606	466.303	471.957	5.654	60	72	8	8

RESULTS

DELTA H@	SCFM	Y
1.6576	0.8245	1.0093
1.5676	0.4235	1.0161
1.6541	1.0090	1.0039
1.5947	0.5927	1.0121
1.6681	1.1580	1.0023
<u>1.6362</u>	0.7153	<u>1.0107</u>
MEAN: 1.6297		1.0091



ACCEPTABLE? YES NO (CIRCLE)

INITIALS SJA

DATE 1-18-07

AIR CONSULTING AND ENGINEERING, INC.

POST TEST CALIBRATION

DATE 6-14-07 CALIBRATED BY C. RESHARD PLANT Eagle Roofing SOURCE Dust Collector Baghouse
 METER BOX NUMBER 1 PYROMETER NUMBER 1 THERMOCOUPLE NUMBER 46
 LEAK CHECK 0.00 CFM at 15 ("Hg) THERMOCOUPLE TEMP. 92 (F) / ASTM GLASS THERMOMETER 91 (F)
 ACE Pb 30.11 ("Hg) / FLIGHT SVCS. Pb 30.11 ("Hg) METER TEMP. 89 (F) / ASTM GLASS THERMOMETER 89 (F)

ΔHS	AVERAGE ΔHD	GAS VOLUME, WET TEST METER			GAS VOLUME, DRY GAS METER			TEMP. WET METER (F)	TEMP. DRY METER (F)	TIME (MIN)	MAX. VACUUM ("Hg)
		INITIAL	FINAL	ACTUAL (FT3)	INITIAL	FINAL	ACTUAL (FT3)				
-0.58	3.2	3.580	8.652	5.072	559.792	565.071	5.279	61	89	5	6
-0.58	3.2	8.652	13.723	5.071	565.071	570.349	5.278	62	90	5	6
-0.58	3.2	13.723	18.791	5.068	570.349	575.630	5.281	62	90	5	6

RESULTS

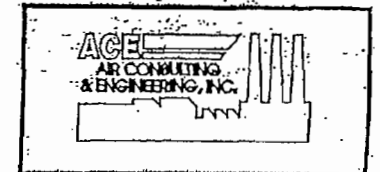
	DELTA H@	SCFM	Y
	1.6188	1.0346	1.0046
	1.6227	1.0324	1.0045
	1.6246	1.0318	1.0033
MEAN:	1.6220		1.0041

PRE TEST "Y" 1.0091

ACCEPTABLE? YES / NO (CIRCLE)

INITIALS D. F.

DATE 6/26/07



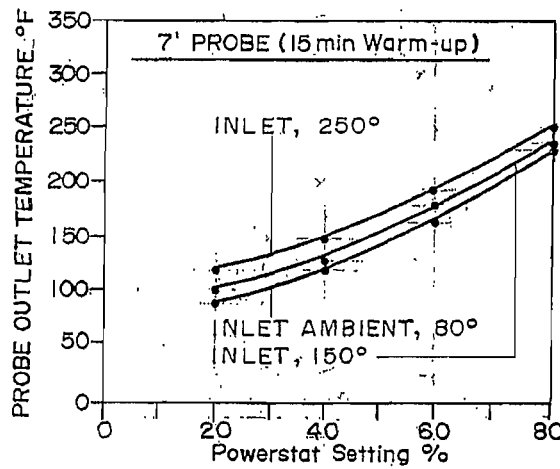
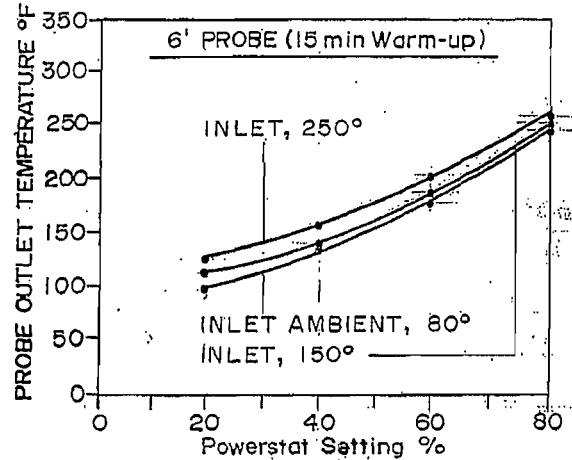
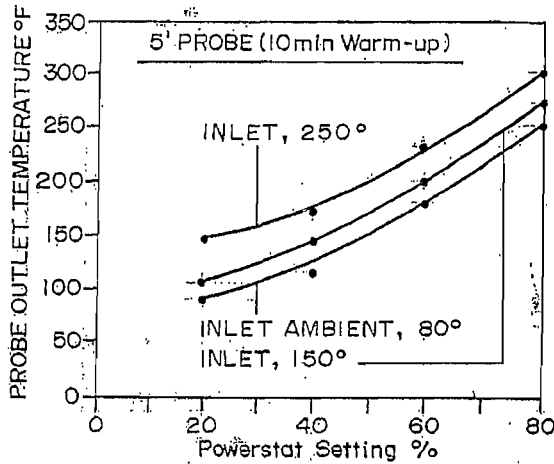
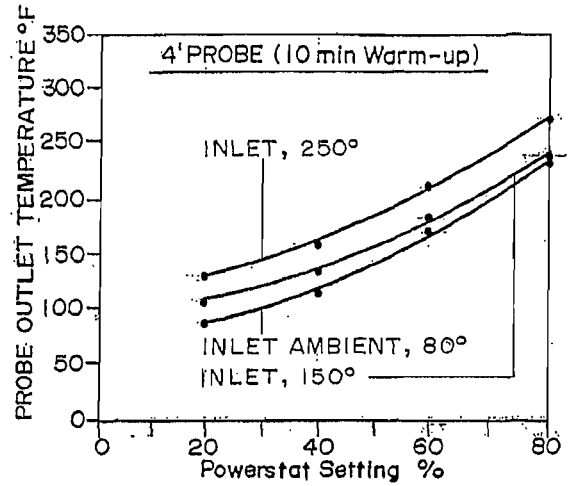
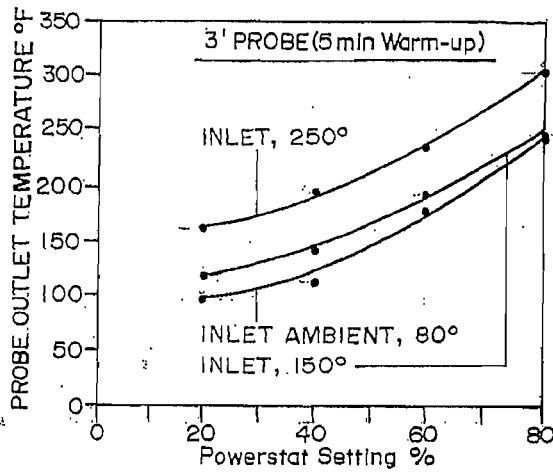
AIR CONSULTING AND ENGINEERING, INC.*PITOT TUBE CALIBRATION*DATE CALIBRATED 01-Nov-06 CALIBRATED BY Rick Hyre PITOT TUBE NUMBER 46

IS PITOT TUBE ASSEMBLY LEVEL YES / NO (circle)

ARE PITOT TUBE OPENING DAMAGED YES / NO (circle)

 $\alpha_1 = \underline{1.00}^\circ (<10^\circ)$, $\alpha_2 = \underline{1.50}^\circ (<10^\circ)$, $\beta_1 = \underline{0.00}^\circ (<5^\circ)$, $\beta_2 = \underline{0.00}^\circ (<5^\circ)$ $\gamma = \underline{0.00}^\circ$ $\nu = \underline{0.00}^\circ$ $A = \underline{0.853}$ in. = (Pa + Pb) $Z = A \sin \gamma = \underline{0.000}$ in.; <0.125 in. $W = A \sin \nu = \underline{0.000}$ in.; <0.031 in.Pa 0.427 in. Pb 0.427 in. Dt 0.375 in.

Was calibration required? YES / NO (circle)



NOTE: Flow rate held constant at 0.75; 50% change in flow rate has little effect on probe temperature.

PROBE GRAPH

AIR CONSULTING
and
ENGINEERING

APPENDIX G

PROJECT PARTICIPANTS

PROJECT PARTICIPANTS

Air Consulting and Engineering, Inc.

Stephen Bell
Field Testing
Visible Emissions

Charles Reshard
Field Testing
Laboratory Analysis
Post-Test Calibration

Joshua Gelston
Field Testing

Stephen Neck, P.E.
Report Preparation

Gloria Gagich
Document Production

Eagle Roofing Products Florida LLC

Gary Manlove
Project Coordinator

Florida Department of Environmental Protection

Bret Galbraith
Joseph Graham
Test Observers

SOURCE TEST REPORT
FOR
EPA METHOD 22 VISIBLE EMISSION TESTS
IN ACCORDANCE WITH
PERMIT 1190045-001-AC, SECTION D

ON THE
TILE PRODUCTION BUILDING (EU 004)

AT
EAGLE ROOFING PRODUCTS FLORIDA LLC
SUMTERVILLE, FLORIDA

JUNE 13, 2007

PREPARED FOR:

EAGLE ROOFING PRODUCTS FLORIDA LLC
1575 EAST COUNTY ROAD 470
SUMTERVILLE, FLORIDA 33585

PREPARED BY:

AIR CONSULTING AND ENGINEERING, INC.
2106 NW 67TH PLACE, SUITE 4
GAINESVILLE, FLORIDA 32653
(352) 335-1889

546-07-04

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
1.0 INTRODUCTION.....	1
2.0 SUMMARY AND DISCUSSION OF RESULTS	2

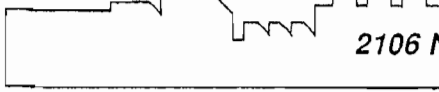
APPENDICES

APPENDIX A—EPA METHOD 22

APPENDIX B—PLANT CERTIFICATIONS

APPENDIX C—FIELD DATA SHEETS

ACE
AIR CONSULTING
& ENGINEERING, INC.



2106 N.W. 67th Place • Suite 4 • Gainesville, Florida • 32653
(352) 335-1889 FAX (352) 335-1891

REPORT CERTIFICATION

To the best of my knowledge, all applicable field and analytical procedures comply with Florida Department of Environmental Protection requirements and all test data and plant operating data are true and correct.

Stephen L. Neck
Stephen L. Neck, P.E.

6-27-07
Date

1.0 INTRODUCTION

Mr. Josh Gelston of Air Consulting and Engineering, Inc. (ACE) performed EPA Method 22 visible emission testing on the Tile Production Building at the referenced facility on June 13, 2007.

Mr. Gelston observed all four building sides as well as the roof for a minimum of 15 minutes each.

2.0 SUMMARY AND DISCUSSION OF RESULTS

EPA Reference Method 22 is a visible emission test that does not assess opacity levels but rather a percentage of the observation period in which any emission is detected.

No emission was detected from any of the sides or roof of the production building during the 75 minute period of observation.

The production certification with comments is located in Appendix B. The observer's field data sheets are provided in Appendix C. Appendix A contains the method write-up from the EPA website.

APPENDIX A
EPA METHOD 22

METHOD 22 - VISUAL DETERMINATION OF FUGITIVE EMISSIONS
FROM MATERIAL SOURCES AND SMOKE EMISSIONS FROM FLARES

NOTE: This method is not inclusive with respect to observer certification. Some material is incorporated by reference from Method 9.

1.0 Scope and Application.

This method is applicable for the determination of the frequency of fugitive emissions from stationary sources, only as specified in an applicable subpart of the regulations. This method also is applicable for the determination of the frequency of visible smoke emissions from flares.

2.0 Summary of Method.

2.1 Fugitive emissions produced during material processing, handling, and transfer operations or smoke emissions from flares are visually determined by an observer without the aid of instruments.

2.2 This method is used also to determine visible smoke emissions from flares used for combustion of waste process materials.

2.3 This method determines the amount of time that visible emissions occur during the observation period (*i.e.*, the accumulated emission time.) This method does not require that the opacity of emissions be determined. Since this procedure requires only the determination of whether

visible emissions occur and does not require the determination of opacity levels, observer certification according to the procedures of Method 9 is not required. However, it is necessary that the observer is knowledgeable with respect to the general procedures for determining the presence of visible emissions. At a minimum, the observer must be trained and knowledgeable regarding the effects of background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water (condensing water vapor) on the visibility of emissions. This training is to be obtained from written materials found in References 1 and 2 or from the lecture portion of the Method 9 certification course.

3.0 *Definitions.*

3.1 *Emission frequency* means the percentage of time that emissions are visible during the observation period.

3.2 *Emission time* means the accumulated amount of time that emissions are visible during the observation period.

3.3 *Fugitive emissions* means emissions generated by an affected facility which is not collected by a capture system and is released to the atmosphere. This includes emissions that (1) escape capture by process equipment exhaust hoods; (2) are emitted during material transfer; (3)

are emitted from buildings housing material processing or handling equipment; or (4) are emitted directly from process equipment.

3.4 *Observation period* means the accumulated time period during which observations are conducted, not to be less than the period specified in the applicable regulation.

3.5 *Smoke emissions* means a pollutant generated by combustion in a flare and occurring immediately downstream of the flame. Smoke occurring within the flame, but not downstream of the flame, is not considered a smoke emission.

4.0 *Interferences.*

4.1 Occasionally, fugitive emissions from sources other than the affected facility (e.g., road dust) may prevent a clear view of the affected facility. This may particularly be a problem during periods of high wind. If the view of the potential emission points is obscured to such a degree that the observer questions the validity of continuing observations, then the observations shall be terminated, and the observer shall clearly note this fact on the data form.

5.0 *Safety.*

5.1 *Disclaimer.* This method may involve hazardous materials, operations, and equipment. This test method may not address all of the safety problems associated with its

use. It is the responsibility of the user of this test method to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to performing this test method.

6.0 Equipment.

6.1 Stopwatches (two). Accumulative type with unit divisions of at least 0.5 seconds.

6.2 Light Meter. Light meter capable of measuring illuminance in the 50 to 200 lux range, required for indoor observations only.

7.0 Reagents and Supplies. [Reserved]

8.0 Sample Collection, Preservation, Storage, and Transfer.
[Reserved]

9.0 Quality Control. [Reserved]

10.0 Calibration and Standardization. [Reserved]

11.0 Analytical Procedure.

11.1 Selection of Observation Location. Survey the affected facility, or the building or structure housing the process to be observed, and determine the locations of potential emissions. If the affected facility is located inside a building, determine an observation location that is consistent with the requirements of the applicable regulation (*i.e.*, outside observation of emissions escaping the building/structure or inside observation of emissions

directly emitted from the affected facility process unit). Then select a position that enables a clear view of the potential emission point(s) of the affected facility or of the building or structure housing the affected facility, as appropriate for the applicable subpart. A position at least 4.6 m (15 feet), but not more than 400 m (0.25 miles), from the emission source is recommended. For outdoor locations, select a position where the sunlight is not shining directly in the observer's eyes.

11.2 Field Records.

11.2.1 Outdoor Location. Record the following information on the field data sheet (Figure 22-1): Company name, industry, process unit, observer's name, observer's affiliation, and date. Record also the estimated wind speed, wind direction, and sky condition. Sketch the process unit being observed, and note the observer location relative to the source and the sun. Indicate the potential and actual emission points on the sketch.

11.2.2 Indoor Location. Record the following information on the field data sheet (Figure 22-2): Company name, industry, process unit, observer's name, observer's affiliation, and date. Record as appropriate the type, location, and intensity of lighting on the data sheet. Sketch the process unit being observed, and note the

observer location relative to the source. Indicate the potential and actual fugitive emission points on the sketch.

11.3 Indoor Lighting Requirements. For indoor locations, use a light meter to measure the level of illumination at a location as close to the emission source(s) as is feasible. An illumination of greater than 100 lux (10 foot candles) is considered necessary for proper application of this method.

11.4 Observations.

11.4.1 Procedure. Record the clock time when observations begin. Use one stopwatch to monitor the duration of the observation period. Start this stopwatch when the observation period begins. If the observation period is divided into two or more segments by process shutdowns or observer rest breaks (see Section 11.4.3), stop the stopwatch when a break begins and restart the stopwatch without resetting it when the break ends. Stop the stopwatch at the end of the observation period. The accumulated time indicated by this stopwatch is the duration of observation period. When the observation period is completed, record the clock time. During the observation period, continuously watch the emission source. Upon observing an emission (condensed water vapor is not considered an emission), start the second accumulative stopwatch; stop the watch when the emission stops. Continue

this procedure for the entire observation period. The accumulated elapsed time on this stopwatch is the total time emissions were visible during the observation period (*i.e.*, the emission time.)

11.4.2 Observation Period. Choose an observation period of sufficient length to meet the requirements for determining compliance with the emission standard in the applicable subpart of the regulations. When the length of the observation period is specifically stated in the applicable subpart, it may not be necessary to observe the source for this entire period if the emission time required to indicate noncompliance (based on the specified observation period) is observed in a shorter time period. In other words, if the regulation prohibits emissions for more than 6 minutes in any hour, then observations may (optional) be stopped after an emission time of 6 minutes is exceeded. Similarly, when the regulation is expressed as an emission frequency and the regulation prohibits emissions for greater than 10 percent of the time in any hour, then observations may (optional) be terminated after 6 minutes of emission are observed since 6 minutes is 10 percent of an hour. In any case, the observation period shall not be less than 6 minutes in duration. In some cases, the process operation may be intermittent or cyclic. In such cases, it

may be convenient for the observation period to coincide with the length of the process cycle.

11.4.3 Observer Rest Breaks. Do not observe emissions continuously for a period of more than 15 to 20 minutes without taking a rest break. For sources requiring observation periods of greater than 20 minutes, the observer shall take a break of not less than 5 minutes and not more than 10 minutes after every 15 to 20 minutes of observation. If continuous observations are desired for extended time periods, two observers can alternate between making observations and taking breaks.

11.5 Recording Observations. Record the accumulated time of the observation period on the data sheet as the observation period duration. Record the accumulated time emissions were observed on the data sheet as the emission time. Record the clock time the observation period began and ended, as well as the clock time any observer breaks began and ended.

12.0 Data Analysis and Calculations.

If the applicable subpart requires that the emission rate be expressed as an emission frequency (in percent), determine this value as follows: Divide the accumulated emission time (in seconds) by the duration of the observation period (in seconds) or by any minimum

observation period required in the applicable subpart, if the actual observation period is less than the required period, and multiply this quotient by 100.

13.0 *Method Performance.* [Reserved]

14.0 *Pollution Prevention.* [Reserved]

15.0 *Waste Management.* [Reserved]

16.0 *References.*

1. Missan, R., and A. Stein. Guidelines for Evaluation of Visible Emissions Certification, Field Procedures, Legal Aspects, and Background Material. EPA Publication No. EPA-340/1-75-007. April 1975.

2. Wohlschlegel, P., and D.E. Wagoner. Guideline for Development of a Quality Assurance Program: Volume IX-- Visual Determination of Opacity Emissions from Stationary Sources. EPA Publication No. EPA-650/4-74-005i. November 1975.

17.0 *Tables, Diagrams, Flowcharts, and Validation Data.*

FUGITIVE OR SMOKE EMISSION INSPECTION OUTDOOR LOCATION			
Company Location Company Rep.	Observer Affiliation Date		
Sky Conditions Precipitation	Wind Direction Wind Speed		
Industry	Process Unit		
Sketch process unit: indicate observer position relative to source; indicate potential emission points and/or actual emission points. <div style="border: 1px solid black; height: 100px; width: 100%; margin-top: 5px;"></div>			
OBSERVATIONS	Clock Time	Observation period duration, min:sec	Accumulated emission time, min:sec
Begin Observation	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
End Observation	_____	_____	_____
	_____	_____	_____

Figure 22-1

FUGITIVE OR SMOKE EMISSION INSPECTION INDOOR LOCATION			
Company Location Company Rep.	Observer Affiliation Date		
Industry	Process Unit		
Light type (fluorescent, incandescent, natural) Light location (overhead, behind observer, etc.) Illuminance (lux or footcandles) Sketch process unit: indicate observer position relative to source; indicate potential emission points and/or actual emission points.			
OBSERVATIONS	Clock Time	Observation period duration, min:sec	Accumulated emission time, min:sec
Begin			
End Observation			

Figure 22-2

APPENDIX B

PLANT CERTIFICATIONS



Eagle Roofing Products Florida LLC
A subsidiary of Burlingame Industries, Inc.

*Manufacturing
and Showroom*

1575 E. C.R. 470
Sumterville, FL 33585
Phone 877 300 3245
Fax 877 300 3248

Administrative Offices

3546 N. Riverside Ave.
Rialto, CA 92377
Phone 909 822 6000
Fax 909 822 3516

Monday, June 18, 2007

Dagmar Fick
ACE
2106 NW 67th Place, Suite 4
Gainesville, Florida 32653

RE: FDEP Testing Updates

Dear Ms. Fick,

Attached is the required information for testing of emissions points **E.U. 004, 005 & 006**. This should conclude our testing for our initial reporting. We will need your final report back to us for submittal as soon as possible. Please contact me with any questions regarding this information.

Regards;

Gary L. Manlove
Director of Manufacturing

Cc: Victor Torcat, Robert Sena, Seamus Burlingame



Eagle Roofing Products Florida LLC
A subsidiary of Burlingame Industries, Inc.

*Manufacturing
and Showroom*

1575 E. C.R. 470
Sumterville, FL 33585
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Fax 877 300 3248

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3546 N. Riverside Ave.
Rialto, CA 92377
Phone 909 822 6000
Fax 909 822 3516

TILE PRODUCTION BUILDING
(E.U. 004)

D6. Production Rate During VE Test

- A. Eagle Roofing Products Florida LLC, 1575 E CR 470, Sumterville, Florida 33585 / Emission Unit (004)
- B. Lines 1 (Eagle 17), 2 (Eagle 18) & 3 (Eagle 19) were operational during testing
 - a. Line #4 (Eagle 20) has not been installed at this time
- C. Start Time – 7:30 AM / Stop Time – 9:00 AM
- D. SAND – 85.69 Tons/Hour
- E. CEMENT - 26.76 Tons/Hour
- F. 112.35 Tons / Hour – Combined transfer rate during test

REJECT TILE RECYCLING CRUSHER SYSTEM
(E.U. 005)

E8. VSI Crusher throughput rate during VE Test

- A. Eagle Roofing Products Florida LLC, 1575 E CR 470, Sumterville, Florida 33585 / Emission Unit (004)
- B. Start Time – 7:30 AM / Stop Time 11:00 AM (3 ½ hours total run-time)
- C. 36 Tons / Throughput
- D. Tons (# buckets x 2/tons each) divided by total hours run = Tons/Hour
 - a. "We loaded 3 trucks with 12 total buckets. Each truck pre-weighed and then weighed loaded. The average weight per bucket was determined at 2/tons each"
- E. 10.28 Tons/Hour – Total VSI throughput rate

APPENDIX C

FIELD DATA SHEETS



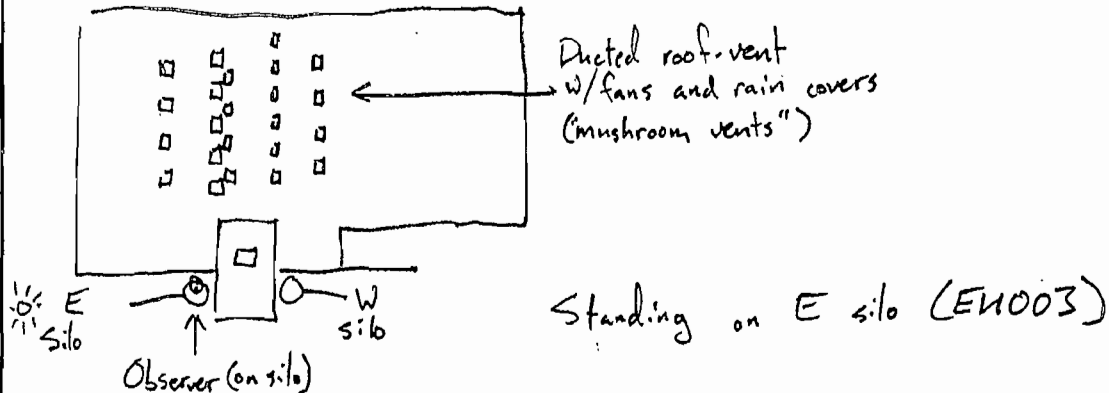
2106 NW 67TH PLACE SUITE 4
 GAINESVILLE, FLORIDA 32653
 (352) 335-1889 - OFFICE / (352) 335-1891 - FAX

FUGITIVE OR SMOKE EMISSION INSPECTION OUTDOOR LOCATION

PLANT Eagle Roofing
 SOURCE Roof (EU 004-19)
 PLANT LOCATION Sumterville, FL
 DATE 6-13-07
 OBSERVER Joshua Gelston

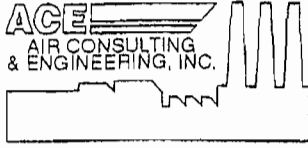
SKY CONDITIONS Broken cloud cover
 PRECIPITATION None
 WIND DIRECTION NE
 WIND SPEED 0-2

Sketch process unit; indicate observer position relative to source and sun; indicate potential emission points and/or actual emission points.



OBSERVATIONS:

	CLOCK TIME	OBSERVATION PERIOD DURATION (min:sec)	ACCUMULATED EMISSION TIME (min:sec)
BEGIN OBSERVATION	<u>0745</u>	<u>15:00</u>	<u>0:00</u> <u>(None observed)</u>
END OBSERVATION	<u>0800</u>	<u>15:00</u>	<u>0:00</u>



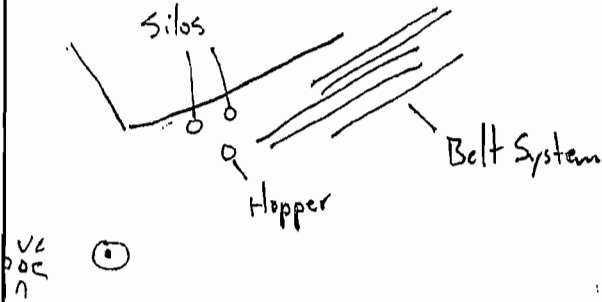
2106 NW 67TH PLACE SUITE 4
 GAINESVILLE, FLORIDA 32653
 (352) 335-1889 - OFFICE / (352) 335-1891 - FAX

FUGITIVE OR SMOKE EMISSION INSPECTION OUTDOOR LOCATION

PLANT Eagle Roofing
 SOURCE North Wall (EU 004-15)
 PLANT LOCATION Sumterville, FL
 DATE 6/13/07
 OBSERVER Joshua Gelston

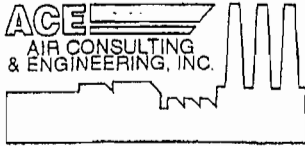
SKY CONDITIONS Broken Cloud cover
 PRECIPITATION None
 WIND DIRECTION None
 WIND SPEED None

Sketch process unit; Indicate observer position relative to source and sun; Indicate potential emission points and/or actual emission points.



OBSERVATIONS:

	CLOCK TIME	OBSERVATION PERIOD DURATION (min:sec)	ACCUMULATED EMISSION TIME (min:sec)
BEGIN OBSERVATION	<u>0709</u>	<u>15:00</u>	<u>0:00</u> <u>(None observed)</u>
END OBSERVATION	<u>0724</u>	<u>15:00</u>	<u>0:00</u>



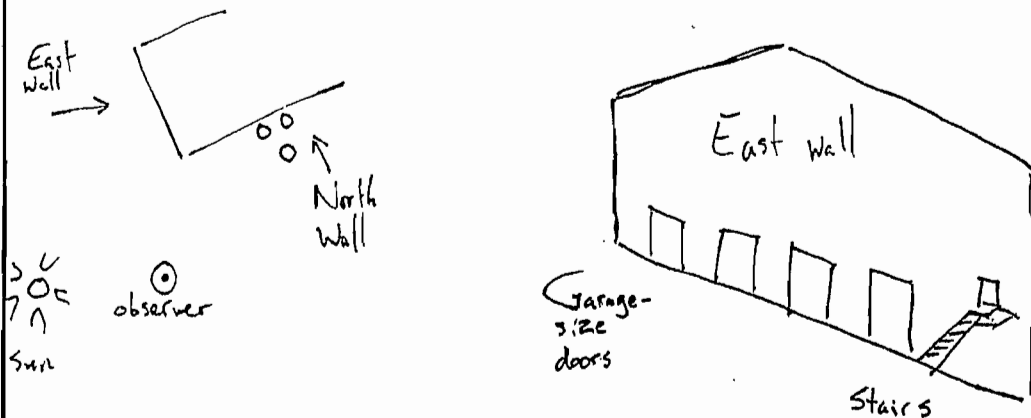
2106 NW 67TH PLACE SUITE 4
 GAINESVILLE, FLORIDA 32653
 (352) 335-1889 - OFFICE / (352) 335-1891 - FAX

FUGITIVE OR SMOKE EMISSION INSPECTION OUTDOOR LOCATION

PLANT Eagle Roofing
 SOURCE East wall (EU 004-17)
 PLANT LOCATION Sumterville, FL
 DATE 6/13/07
 OBSERVER Joshua Gelston

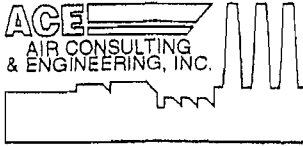
SKY CONDITIONS Broken cloud cover
 PRECIPITATION None
 WIND DIRECTION None
 WIND SPEED None

Sketch process unit; Indicate observer position relative to source and sun; Indicate potential emission points and/or actual emission points.



OBSERVATIONS:

	CLOCK TIME	OBSERVATION PERIOD DURATION (min:sec)	ACCUMULATED EMISSION TIME (min:sec)
BEGIN OBSERVATION	0709	15:00	0:00 (None observed)
END OBSERVATION	0724	15:00	0:00



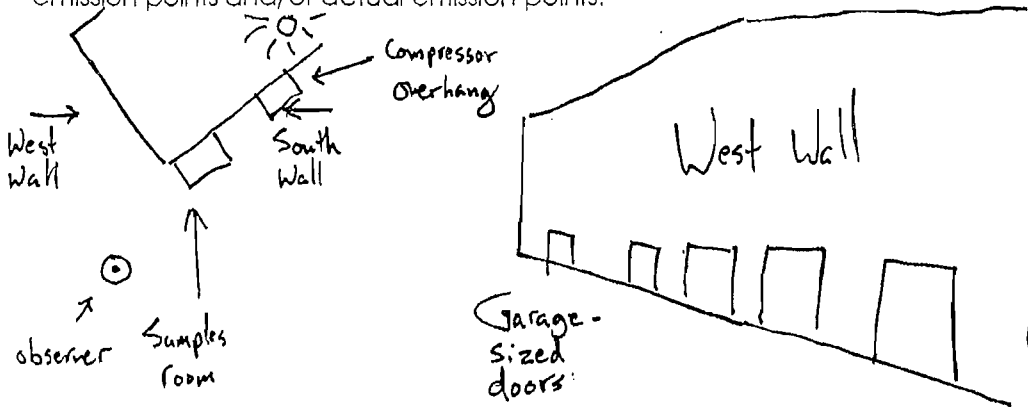
2106 NW 67TH PLACE SUITE 4
 GAINESVILLE, FLORIDA 32653
 (352) 335-1889 - OFFICE / (352) 335-1891 - FAX

FUGITIVE OR SMOKE EMISSION INSPECTION OUTDOOR LOCATION

PLANT Eagle Roofing
 SOURCE West Wall (EU 004-18)
 PLANT LOCATION Sumterville, FL
 DATE 6/13/07
 OBSERVER Joshua Gelstman

SKY CONDITIONS Broken cloud cover
 PRECIPITATION None
 WIND DIRECTION None
 WIND SPEED None

Sketch process unit; indicate observer position relative to source and sun; indicate potential emission points and/or actual emission points.



OBSERVATIONS:

	CLOCK TIME	OBSERVATION PERIOD DURATION (min:sec)	ACCUMULATED EMISSION TIME (min:sec)
BEGIN OBSERVATION	<u>0726</u>	<u>15:00</u>	<u>0:00</u> <u>(None observed)</u>
END OBSERVATION	<u>0741</u>	<u>15:00</u>	<u>0:00</u>



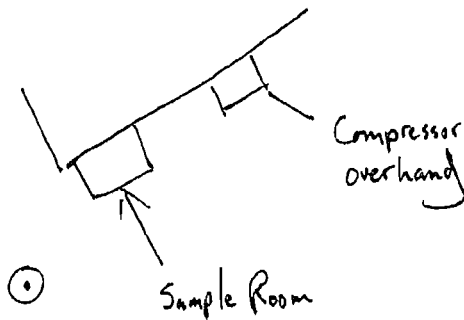
2106 NW 67TH PLACE SUITE 4
 GAINESVILLE, FLORIDA 32653
 (352) 335-1889 - OFFICE / (352) 335-1891 - FAX

FUGITIVE OR SMOKE EMISSION INSPECTION OUTDOOR LOCATION

PLANT Eagle Roofing
 SOURCE South Wall (EU 004-16)
 PLANT LOCATION Sumterville, FL
 DATE 6/13/07
 OBSERVER Joshua Gelston

SKY CONDITIONS Broken Cloud Cover
 PRECIPITATION None
 WIND DIRECTION None
 WIND SPEED None

Sketch process unit; indicate observer position relative to source and sun; indicate potential emission points and/or actual emission points.



OBSERVATIONS:

	CLOCK TIME	OBSERVATION PERIOD DURATION (min:sec)	ACCUMULATED EMISSION TIME (min:sec)
BEGIN OBSERVATION	<u>0726</u>	<u>15:00</u>	<u>0:00</u> <u>(None observed)</u>
END OBSERVATION	<u>0741</u>	<u>15:00</u>	<u>0:00</u>

ATTACHMENT 4

Records as required by Construction Permit

**Daily and Monthly Throughput Records to demonstrate
compliance with annual throughput limit
(B7 and B8)**

REPORT PERIOD: From: 1/2/2008 To: 1/31/2008

Permittee: Eagle Roofing Products Florida LLC
 3546 N. Riverside Avenue
 Rialto, California 92377
 Phone: (909) 822-6000

Permit Information: Florida DEP Permit No. 1190045-001-AC
 County Sumter
 Effective Date 12/22/2006
 Expiration Date 11/30/2008
 Project Roofing Tile Manufacturing Facility

Facility: Eagle Roofing Products Florida LLC
 1575 East C.R. 470
 Sumterville, Florida 33585
 Phone: (800) 300-3245

Facility Information: Facility UTM Coordinates 17-394.6 East 3179.9 North
 Latitude 28 degrees 44' 33"
 Longitude 82 degrees 04' 45"
 Facility ID No. 1190045

Formula used to compute SHIFT THROUGHPUT:

$(TPM * H) * S * E * W * SCR$

TPM Tiles per minute (line speed)
 H 60 minutes per hour
 S Hours scheduled to work
 E Line Efficiency (uptime)
 W Tile weight based on profile
 SCR Ratio of sand and cement

Ref. B1 [Rules 62-4.070(3) & 62-210.200(P.T.E.), F.A.C.]

NOTE: ALL EAGLE TILE ARE MANUFACTURED TO A 3.00-to-1 SAND-TO-CEMENT RATIO.



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: 1 / 2 / 2008

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 17A Malibu Concrete Roof Tile											
10.00	1.00	0.007	100	9.50	59558	212.18	70.73	442	1.57	0.52	21.38
1 shift											
Avg:	1.00	0.007	100	9.50	59558	212.18	70.73	442	1.57	0.52	21.38
Sum:					59558	212.18	70.73	442	1.57	0.52	21.38

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 5.57%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **1 /3 /2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 17A Barrel Trim Concrete Roof Tile											
4.60	0.91	0.062	80	10.00	18917	70.94	23.65	1242	4.66	1.55	18.00
Shift: 18A Malibu Concrete Roof Tile											
10.00	1.00	0.010	100	9.50	59400	211.61	70.54	600	2.14	0.71	21.38
2 shifts											
Avg:	0.96	0.036	90	9.75	39159	141.28	47.09	921	3.40	1.13	19.69
Sum:					78317	282.55	94.18	1842	6.79	2.26	39.38

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 10.25%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **1 /4 /2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Malibu Concrete Roof Tile											
10.00	1.00	0.007	100	9.50	59558	212.18	70.73	442	1.57	0.52	21.38
Shift: 19A Barrel Trim Concrete Roof Tile											
2.00	0.85	0.009	80	10.00	8088	30.33	10.11	72	0.27	0.09	18.00
2 shifts											
Avg:	0.93	0.008	90	9.75	33823	121.25	40.42	257	0.92	0.31	19.69
Sum:					67646	242.51	80.84	514	1.84	0.61	39.38

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 10.25%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **1 / 7 / 2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Capistrano Concrete Roof Tile											
10.00	0.97	0.017	100	10.00	57224	214.59	71.53	976	3.66	1.22	22.50
1 shift											
Avg:	0.97	0.017	100	10.00	57224	214.59	71.53	976	3.66	1.22	22.50
Sum:					57224	214.59	71.53	976	3.66	1.22	22.50

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 5.86%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **1 / 8 / 2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Ridge Trim Concrete Roof Tile											
4.00	0.98	0.015	80	9.00	18444	62.25	20.75	276	0.93	0.31	16.20
10.00	0.85	0.111	100	11.00	45347	187.06	62.35	5653	23.32	7.77	24.75
2 shifts											
Avg:	0.91	0.063	90	10.00	31896	124.65	41.55	2964	12.12	4.04	20.48
Sum:					63791	249.31	83.10	5929	24.25	8.08	40.95

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 10.66%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **1 /9 /2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Flat Concrete Roof Tile											
10.00	0.98	0.013	100	11.00	58034	239.39	79.80	766	3.16	1.05	24.75
1 shift											
Avg:	0.98	0.013	100	11.00	58034	239.39	79.80	766	3.16	1.05	24.75
Sum:					58034	239.39	79.80	766	3.16	1.05	24.75
Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr.											Percent of Maximum This Date: 6.45%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **1 /10/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Flat Concrete Roof Tile											
10.00	0.89	0.007	100	11.00	53040	218.79	72.93	360	1.48	0.49	24.75
1 shift											
Avg:	0.89	0.007	100	11.00	53040	218.79	72.93	360	1.48	0.49	24.75
Sum:					53040	218.79	72.93	360	1.48	0.49	24.75

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 6.45%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: 1/11/2008

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Capistrano Concrete Roof Tile											
10.00	0.96	0.009	100	10.00	57089	214.08	71.36	511	1.92	0.64	22.50
1 shift											
Avg:	0.96	0.009	100	10.00	57089	214.08	71.36	511	1.92	0.64	22.50
Sum:					57089	214.08	71.36	511	1.92	0.64	22.50

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 5.86%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **1 /14/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Capistrano Concrete Roof Tile											
10.00	1.00	0.008	100	10.00	59518	223.19	74.40	482	1.81	0.60	22.50
1 shift											
Avg:	1.00	0.008	100	10.00	59518	223.19	74.40	482	1.81	0.60	22.50
Sum:					59518	223.19	74.40	482	1.81	0.60	22.50

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 5.86%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **1 /15/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Capistrano Concrete Roof Tile											
10.00	1.00	0.010	100	10.00	59384	222.69	74.23	616	2.31	0.77	22.50
1 shift											
Avg:	1.00	0.010	100	10.00	59384	222.69	74.23	616	2.31	0.77	22.50
Sum:					59384	222.69	74.23	616	2.31	0.77	22.50

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 5.86%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **1 /16/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Capistrano Concrete Roof Tile											
10.00	1.00	0.008	100	10.00	59518	223.19	74.40	482	1.81	0.60	22.50
1 shift											
Avg:	1.00	0.008	100	10.00	59518	223.19	74.40	482	1.81	0.60	22.50
Sum:					59518	223.19	74.40	482	1.81	0.60	22.50

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 5.86%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **1 /17/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 17A Barrel Trim Concrete Roof Tile											
5.00	1.00	0.007	80	10.00	23835	89.38	29.79	165	0.62	0.21	18.00
Shift: 18A Malibu Concrete Roof Tile											
10.00	1.00	0.010	100	9.50	59400	211.61	70.54	600	2.14	0.71	21.38
2 shifts											
Avg:	1.00	0.008	90	9.75	41617	150.50	50.17	383	1.38	0.46	19.69
Sum:					83235	300.99	100.33	765	2.76	0.92	39.38
Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr.											Percent of Maximum This Date: 10.25%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **1 /21/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Malibu Concrete Roof Tile											
10.00	0.99	0.018	110	9.50	64152	228.54	76.18	1188	4.23	1.41	23.51
1 shift											
Avg:	0.99	0.018	110	9.50	64152	228.54	76.18	1188	4.23	1.41	23.51
Sum:					64152	228.54	76.18	1188	4.23	1.41	23.51

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 6.12%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **1 /22/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Malibu Concrete Roof Tile											
10.00	0.96	0.010	110	9.50	62726	223.46	74.49	634	2.26	0.75	23.51
1 shift											
Avg:	0.96	0.010	110	9.50	62726	223.46	74.49	634	2.26	0.75	23.51
Sum:					62726	223.46	74.49	634	2.26	0.75	23.51

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 6.12%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **1 /23/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Malibu Concrete Roof Tile											
10.00	1.00	0.009	110	9.50	65419	233.06	77.69	581	2.07	0.69	23.51
1 shift											
Avg:	1.00	0.009	110	9.50	65419	233.06	77.69	581	2.07	0.69	23.51
Sum:					65419	233.06	77.69	581	2.07	0.69	23.51

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 6.12%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **1 /24/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Malibu Concrete Roof Tile											
1.00	1.00	0.016	110	9.50	6494	23.14	7.71	106	0.38	0.13	23.51
8.00	0.84	0.016	115	10.00	45482	170.56	56.85	748	2.80	0.93	25.88
2 shifts											
Avg:	0.92	0.016	113	9.75	25988	96.85	32.28	427	1.59	0.53	24.69
Sum:					51977	193.70	64.57	853	3.18	1.06	49.39

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 12.86%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **1 /25/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Capistrano Concrete Roof Tile											
10.00	0.84	0.016	115	10.00	57033	213.87	71.29	927	3.48	1.16	25.88
1 shift											
Avg:	0.84	0.016	115	10.00	57033	213.87	71.29	927	3.48	1.16	25.88
Sum:					57033	213.87	71.29	927	3.48	1.16	25.88

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 6.74%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **1 /28/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Flat Concrete Roof Tile											
10.00	0.80	0.017	115	11.00	54255	223.80	74.60	945	3.90	1.30	28.46
1 shift											
Avg:	0.80	0.017	115	11.00	54255	223.80	74.60	945	3.90	1.30	28.46
Sum:					54255	223.80	74.60	945	3.90	1.30	28.46
Maximum Sand/Shale Throughput Tons per Hour Permissible:						384 tons/hr.		Percent of Maximum This Date:		7.41%	



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **1 /29/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Flat Concrete Roof Tile											
10.00	0.98	0.028	115	11.00	65727	271.12	90.37	1893	7.81	2.60	28.46
1 shift											
Avg:	0.98	0.028	115	11.00	65727	271.12	90.37	1893	7.81	2.60	28.46
Sum:					65727	271.12	90.37	1893	7.81	2.60	28.46
Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr.										Percent of Maximum This Date: 7.41%	



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **1 /30/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Capistrano Concrete Roof Tile											
10.00	0.98	0.015	110	10.00	63702	238.88	79.63	978	3.67	1.22	24.75
1 shift											
Avg:	0.98	0.015	110	10.00	63702	238.88	79.63	978	3.67	1.22	24.75
Sum:					63702	238.88	79.63	978	3.67	1.22	24.75
Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 6.45%											



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **1 /31/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Capistrano Concrete Roof Tile											
10.00	1.00	0.010	110	10.00	65322	244.96	81.65	678	2.54	0.85	24.75
1 shift											
Avg:	1.00	0.010	110	10.00	65322	244.96	81.65	678	2.54	0.85	24.75
Sum:					65322	244.96	81.65	678	2.54	0.85	24.75
Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 6.45%											



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

REPORT PERIOD: From: 1/2/2008 To: 1/31/2008

B8 . SHIFT AVERAGES - MONTHLY THROUGHPUT RECORD OF CEMENT, SAND, AND SHALE

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage
8.64	0.95	0.018	102	10.00	50256	189.03	63.01	860	3.33	1.11
Total Scheduled Production Hours This Report Period:										224.60
Total Actual Production Hours This Report Period:										214.02
Total Sand Usage This Report Period (tons):										5001.35
Actual Sand Usage Per Hour This Report Period (tons):										21.22
Maximum Sand/Shale Throughput Tons per Hour Permissible:										384
Percent of Maximum This Period:										5.96%

REPORT PERIOD: From: 2/1/2008 To: 2/28/2008

Permittee: Eagle Roofing Products Florida LLC
3546 N. Riverside Avenue
Rialto, California 92377
Phone: (909) 822-6000

Permit Information: Florida DEP Permit No. 1190045-001-AC
County Sumter
Effective Date 12/22/2006
Expiration Date 11/30/2008
Project Roofing Tile Manufacturing Facility

Formula used to compute
SHIFT THROUGHPUT:

$$(TPM * H) * S * E * W * SCR$$

TPM Tiles per minute (line speed)
H 60 minutes per hour
S Hours scheduled to work
E Line Efficiency (uptime)
W Tile weight based on profile
SCR Ratio of sand and cement

Facility: Eagle Roofing Products Florida LLC
1575 East C.R. 470
Sumterville, Florida 33585
Phone: (800) 300-3245

Facility Information: Facility UTM Coordinates 17-394.6 East 3179.9 North
Latitude 28 degrees 44' 33"
Longitude 82 degrees 04' 45"
Facility ID No. 1190045

Ref. B1 [Rules 62-4.070(3) & 62-210.200(P.T.E.), F.A.C.]

NOTE: ALL EAGLE TILE ARE MANUFACTURED TO A 3.00-to-1 SAND-TO-CEMENT RATIO.



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: 2/1/2008

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Capistrano Concrete Roof Tile											
10.00	1.00	0.012	110	10.00	65187	244.45	81.48	813	3.05	1.02	24.75
1 shift											
Avg:	1.00	0.012	110	10.00	65187	244.45	81.48	813	3.05	1.02	24.75
Sum:					65187	244.45	81.48	813	3.05	1.02	24.75

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 6.45%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **2/12/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Ridge Trim Concrete Roof Tile											
10.00	0.59	0.041	80	9.00	27159	91.66	30.55	1161	3.92	1.31	16.20
1 shift											
Avg:	0.59	0.041	80	9.00	27159	91.66	30.55	1161	3.92	1.31	16.20
Sum:					27159	91.66	30.55	1161	3.92	1.31	16.20

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 4.22%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **2 /4 /2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Malibu Concrete Roof Tile											
10.00	1.00	0.009	110	9.50	65419	233.06	77.69	581	2.07	0.69	23.51
1 shift											
Avg:	1.00	0.009	110	9.50	65419	233.06	77.69	581	2.07	0.69	23.51
Sum:					65419	233.06	77.69	581	2.07	0.69	23.51

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 6.12%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **2 / 5 / 2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Ridge Trim Concrete Roof Tile											
1.50	1.00	0.003	80	9.00	7182	24.24	8.08	18	0.06	0.02	16.20
10.00	1.00	0.009	110	9.50	65419	233.06	77.69	581	2.07	0.69	23.51
2 shifts											
Avg:	1.00	0.006	95	9.25	36301	128.65	42.88	299	1.06	0.35	19.86
Sum:					72601	257.30	85.77	599	2.13	0.71	39.71

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 10.34%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **2 /6 /2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Capistrano Concrete Roof Tile											
1.00	1.00	0.018	110	10.00	6478	24.29	8.10	122	0.46	0.15	24.75
9.00	0.83	0.018	80	10.00	35351	132.56	44.19	648	2.43	0.81	18.00
2 shifts											
Avg:	0.92	0.018	95	10.00	20914	78.43	26.14	385	1.44	0.48	21.38
Sum:					41829	156.86	52.29	770	2.89	0.96	42.75

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 11.13%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **2 / 17 / 2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Capistrano Concrete Roof Tile											
10.00	1.00	0.008	110	10.00	65457	245.46	81.82	543	2.04	0.68	24.75
1 shift											
Avg:	1.00	0.008	110	10.00	65457	245.46	81.82	543	2.04	0.68	24.75
Sum:					65457	245.46	81.82	543	2.04	0.68	24.75

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 6.45%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **2 / 8 / 2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Capistrano Concrete Roof Tile											
10.00	1.00	0.006	110	10.00	65591	245.97	81.99	409	1.53	0.51	24.75
1 shift											
Avg:	1.00	0.006	110	10.00	65591	245.97	81.99	409	1.53	0.51	24.75
Sum:					65591	245.97	81.99	409	1.53	0.51	24.75

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 6.45%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **2 /11/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Capistrano Concrete Roof Tile											
10.00	1.00	0.008	110	10.00	65457	245.46	81.82	543	2.04	0.68	24.75
1 shift											
Avg:	1.00	0.008	110	10.00	65457	245.46	81.82	543	2.04	0.68	24.75
Sum:					65457	245.46	81.82	543	2.04	0.68	24.75

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 6.45%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: 2 /12/2008

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Flat Concrete Roof Tile											
8.00	0.38	0.039	110	11.00	19030	78.50	26.17	770	3.18	1.06	27.23
3.00	1.00	0.018	110	10.00	19435	72.88	24.29	365	1.37	0.46	24.75
2 shifts											
Avg:	0.69	0.029	110	10.50	19232	75.69	25.23	568	2.27	0.76	25.99
Sum:					38464	151.38	50.46	1136	4.55	1.52	51.98

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 13.54%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **2 /13/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Flat Concrete Roof Tile											
11.00	0.85	0.047	110	11.00	59110	243.83	81.28	2926	12.07	4.02	27.23
1 shift											
Avg:	0.85	0.047	110	11.00	59110	243.83	81.28	2926	12.07	4.02	27.23
Sum:					59110	243.83	81.28	2926	12.07	4.02	27.23

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 7.09%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **2 /14/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Flat Concrete Roof Tile											
10.00	1.00	0.008	110	11.00	65457	270.01	90.00	543	2.24	0.75	27.23
1 shift											
Avg:	1.00	0.008	110	11.00	65457	270.01	90.00	543	2.24	0.75	27.23
Sum:					65457	270.01	90.00	543	2.24	0.75	27.23

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 7.09%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **2 /15/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Malibu Concrete Roof Tile											
10.00	1.00	0.011	110	9.50	65261	232.49	77.50	739	2.63	0.88	23.51
1 shift											
Avg:	1.00	0.011	110	9.50	65261	232.49	77.50	739	2.63	0.88	23.51
Sum:					65261	232.49	77.50	739	2.63	0.88	23.51

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 6.12%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **2 /16/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Malibu Concrete Roof Tile											
10.00	0.92	0.006	110	9.50	60350	215.00	71.67	370	1.32	0.44	23.51
1 shift											
Avg:	0.92	0.006	110	9.50	60350	215.00	71.67	370	1.32	0.44	23.51
Sum:					60350	215.00	71.67	370	1.32	0.44	23.51

Maximum Sand/Shale Throughput Tons per Hour Permissible: **384 tons/hr.** Percent of Maximum This Date: **6.12%**



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **2 /18/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Malibu Concrete Roof Tile											
12.00	0.93	0.006	110	9.50	73495	261.83	87.28	422	1.50	0.50	23.51
1 shift											
Avg:	0.93	0.006	110	9.50	73495	261.83	87.28	422	1.50	0.50	23.51
Sum:					73495	261.83	87.28	422	1.50	0.50	23.51

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 6.12%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **2 /19/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Malibu Concrete Roof Tile											
12.00	1.00	0.008	110	9.50	78566	279.89	93.30	634	2.26	0.75	23.51
1 shift											
Avg:	1.00	0.008	110	9.50	78566	279.89	93.30	634	2.26	0.75	23.51
Sum:					78566	279.89	93.30	634	2.26	0.75	23.51

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 6.12%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **2 /20/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Capistrano Concrete Roof Tile											
12.00	0.92	0.007	110	10.00	72073	270.27	90.09	530	1.99	0.66	24.75
1 shift											
Avg:	0.92	0.007	110	10.00	72073	270.27	90.09	530	1.99	0.66	24.75
Sum:					72073	270.27	90.09	530	1.99	0.66	24.75

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 6.45%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **2 /21/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Capistrano Concrete Roof Tile											
12.00	1.00	0.010	110	10.00	78414	294.05	98.02	786	2.95	0.98	24.75
1 shift											
Avg:	1.00	0.010	110	10.00	78414	294.05	98.02	786	2.95	0.98	24.75
Sum:					78414	294.05	98.02	786	2.95	0.98	24.75

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 6.45%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **2 /22/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Capistrano Concrete Roof Tile											
12.00	0.80	0.016	110	10.00	62353	233.82	77.94	1007	3.78	1.26	24.75
1 shift											
Avg:	0.80	0.016	110	10.00	62353	233.82	77.94	1007	3.78	1.26	24.75
Sum:					62353	233.82	77.94	1007	3.78	1.26	24.75

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 6.45%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **2 /23/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Capistrano Concrete Roof Tile											
12.00	1.00	0.010	110	10.00	78414	294.05	98.02	786	2.95	0.98	24.75
1 shift											
Avg:	1.00	0.010	110	10.00	78414	294.05	98.02	786	2.95	0.98	24.75
Sum:					78414	294.05	98.02	786	2.95	0.98	24.75

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 6.45%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **2 /25/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Malibu Concrete Roof Tile											
12.00	1.00	0.006	110	9.50	78725	280.46	93.49	475	1.69	0.56	23.51
1 shift											
Avg:	1.00	0.006	110	9.50	78725	280.46	93.49	475	1.69	0.56	23.51
Sum:					78725	280.46	93.49	475	1.69	0.56	23.51

Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 6.12%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **2 /26/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 17A Barrel Trim Concrete Roof Tile											
4.20	1.00	0.018	80	10.00	19798	74.24	24.75	362	1.36	0.45	18.00
Shift: 18A Malibu Concrete Roof Tile											
12.00	1.00	0.008	110	9.50	78566	279.89	93.30	634	2.26	0.75	23.51
2 shifts											
Avg:	1.00	0.013	95	9.75	49182	177.07	59.02	498	1.81	0.60	20.76
Sum:					98364	354.14	118.05	996	3.61	1.20	41.51

Maximum Sand/Shale Throughput Tons per Hour Permissible: **384 tons/hr.** Percent of Maximum This Date: **10.81%**



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **2 /27/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 17A Barrel Trim Concrete Roof Tile											
10.00	0.85	0.008	80	10.00	40474	151.78	50.59	326	1.22	0.41	18.00
Shift: 18A Capistrano Concrete Roof Tile											
12.00	0.87	0.009	110	10.00	68023	255.09	85.03	619	2.32	0.77	24.75
2 shifts											
Avg:	0.86	0.009	95	10.00	54249	203.43	67.81	473	1.77	0.59	21.38
Sum:					108497	406.87	135.62	945	3.54	1.18	42.75
Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr. Percent of Maximum This Date: 11.13%											



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

Manufacturing Date: **2 /28/2008**

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonage	Inventory Cement Tonage	Pieces Rejected	Rejected Sand Tonage	Rejected Cement Tonage	TOTAL Shift Sand/Shale Throughput per Hour
Shift: 18A Flat Concrete Roof Tile											
12.00	0.79	0.018	110	11.00	61546	253.88	84.63	1157	4.77	1.59	27.23
4.80	1.00	0.016	110	10.00	31176	116.91	38.97	504	1.89	0.63	24.75
2 shifts											
Avg:	0.90	0.017	110	10.50	46361	185.39	61.80	830	3.33	1.11	25.99
Sum:					92722	370.79	123.60	1661	6.66	2.22	51.98
Maximum Sand/Shale Throughput Tons per Hour Permissible: 384 tons/hr.											Percent of Maximum This Date: 13.54%



Daily Sand, Shale & Cement Throughput Record

Florida Department of Environmental Protection Daily Compliance Report (Ref. B7 & B8 - Daily Monthly Throughput Records)

REPORT PERIOD: From: 2/1/2008 To: 2/28/2008

B8 . SHIFT AVERAGES - MONTHLY THROUGHPUT RECORD OF CEMENT, SAND, AND SHALE

Shift Hours	Efficiency	Reject	TPM	Weight Target	Pieces to Inventory	Inventory Sand Tonnage	Inventory Cement Tonnage	Pieces Rejected	Rejected Sand Tonnage	Rejected Cement Tonnage
9.40	0.92	0.014	105	9.93	54447	202.73	67.58	668	2.53	0.84

Total Scheduled Production Hours This Report Period:	272.50
Total Actual Production Hours This Report Period:	251.18
Total Sand Usage This Report Period (tons):	5952.49
Actual Sand Usage Per Hour This Report Period (tons):	20.14
Maximum Sand/Shale Throughput Tons per Hour Permissible:	384
Percent of Maximum This Period:	6.11%

**Monthly Cement Silo Loading Records
(C6)**



Incoming Raw Materials Report

Date	Receiver No.	Supplier	Quantity Received	VOC Qty	VOC/UOM	Total VOC
2-White Cement-EU002(West)						
1/4/2008	8037197606	Rinker Materials	25.26 Tons	0.00000	Not Applicable	0.00
1/4/2008	8037197839	Rinker Materials	26.06 Tons	0.00000	Not Applicable	0.00
1/4/2008	8037197913	Rinker Materials	25.32 Tons	0.00000	Not Applicable	0.00
1/4/2008	8037203828	Rinker Materials	25.34 Tons	0.00000	Not Applicable	0.00
1/10/2008	8037260297	Rinker Materials	25.38 Tons	0.00000	Not Applicable	0.00
1/10/2008	8037261725	Rinker Materials	25.60 Tons	0.00000	Not Applicable	0.00
1/14/2008	8037282214	Rinker Materials	25.86 Tons	0.00000	Not Applicable	0.00
1/14/2008	8037290694	Rinker Materials	25.52 Tons	0.00000	Not Applicable	0.00
1/14/2008	8037293658	Rinker Materials	26.70 Tons	0.00000	Not Applicable	0.00
1/28/2008	12301537	Rinker Materials	26.37 Tons	0.00000	Not Applicable	0.00
1/28/2008	12301539	Rinker Materials	25.70 Tons	0.00000	Not Applicable	0.00
Summary for 2-White Cement-EU002(West) (11 receivers)			Total - All Deliveries:	283.11 Tons		0.00
VOC Content of 2-White Cement-EU002(West) Not Applicable			Average per Delivery:	25.74 Tons		0.00



Incoming Raw Materials Report

Date	Receivor No.	Supplier	Quantity Received	VOC Qty	VOC/UOM	Total VOC
3-Gray Cement-EU003(East)						
1/2/2008	8002364805	Suwannee American Cement	27.15 Tons	0.00000	Not Applicable	0.00
1/2/2008	8002381827	Suwannee American Cement	26.44 Tons	0.00000	Not Applicable	0.00
1/2/2008	8002382050	Suwannee American Cement	25.90 Tons	0.00000	Not Applicable	0.00
1/2/2008	8002392678	Suwannee American Cement	26.42 Tons	0.00000	Not Applicable	0.00
1/2/2008	8002393376	Suwannee American Cement	26.88 Tons	0.00000	Not Applicable	0.00
1/3/2008	8002404577	Suwannee American Cement	26.87 Tons	0.00000	Not Applicable	0.00
1/3/2008	8002404661	Suwannee American Cement	26.39 Tons	0.00000	Not Applicable	0.00
1/4/2008	8002425746	Suwannee American Cement	26.95 Tons	0.00000	Not Applicable	0.00
1/4/2008	8002432287	Suwannee American Cement	26.06 Tons	0.00000	Not Applicable	0.00
1/7/2008	8002466055	Suwannee American Cement	26.30 Tons	0.00000	Not Applicable	0.00
1/7/2008	8002474535	Suwannee American Cement	27.09 Tons	0.00000	Not Applicable	0.00
1/8/2008	8002482163	Suwannee American Cement	27.18 Tons	0.00000	Not Applicable	0.00
1/8/2008	8002494476	Suwannee American Cement	26.42 Tons	0.00000	Not Applicable	0.00
1/9/2008	8002505850	Suwannee American Cement	27.26 Tons	0.00000	Not Applicable	0.00
1/9/2008	8002507737	Suwannee American Cement	27.11 Tons	0.00000	Not Applicable	0.00
1/10/2008	8002524792	Suwannee American Cement	27.15 Tons	0.00000	Not Applicable	0.00
1/10/2008	8002531320	Suwannee American Cement	26.63 Tons	0.00000	Not Applicable	0.00
1/11/2008	8002547546	Suwannee American Cement	27.09 Tons	0.00000	Not Applicable	0.00



Incoming Raw Materials Report

Date	Receiver No.	Supplier	Quantity Received	VOC Qty	VOC/UOM	Total VOC
3-Gray Cement-EU003(East)						
1/11/2008	8002547568	Suwannee American Cement	26.47 Tons	0.00000	Not Applicable	0.00
1/15/2008	8002585906	Suwannee American Cement	26.39 Tons	0.00000	Not Applicable	0.00
1/15/2008	8002585950	Suwannee American Cement	26.43 Tons	0.00000	Not Applicable	0.00
1/15/2008	8002589457	Suwannee American Cement	27.17 Tons	0.00000	Not Applicable	0.00
1/16/2008	8002600676	Suwannee American Cement	26.60 Tons	0.00000	Not Applicable	0.00
1/16/2008	8002610941	Suwannee American Cement	26.36 Tons	0.00000	Not Applicable	0.00
1/17/2008	8002620537	Suwannee American Cement	27.10 Tons	0.00000	Not Applicable	0.00
1/17/2008	8002638336	Suwannee American Cement	26.17 Tons	0.00000	Not Applicable	0.00
1/21/2008	8002633732	Suwannee American Cement	27.27 Tons	0.00000	Not Applicable	0.00
1/21/2008	8002652699	Suwannee American Cement	26.63 Tons	0.00000	Not Applicable	0.00
1/21/2008	8002709082	Suwannee American Cement	27.13 Tons	0.00000	Not Applicable	0.00
1/21/2008	8002709111	Suwannee American Cement	26.23 Tons	0.00000	Not Applicable	0.00
1/22/2008	8002714532	Suwannee American Cement	26.51 Tons	0.00000	Not Applicable	0.00
1/22/2008	8002717969	Suwannee American Cement	26.98 Tons	0.00000	Not Applicable	0.00
1/22/2008	8002729021	Suwannee American Cement	26.63 Tons	0.00000	Not Applicable	0.00
1/23/2008	8002737579	Suwannee American Cement	26.89 Tons	0.00000	Not Applicable	0.00
1/23/2008	8002745087	Suwannee American Cement	26.71 Tons	0.00000	Not Applicable	0.00
1/23/2008	8002750220	Suwannee American Cement	26.20 Tons	0.00000	Not Applicable	0.00



Incoming Raw Materials Report

Date	Receivor No.	Supplier	Quantity Received	VOC Qty	VOC/UOM	Total VOC
3-Gray Cement-EU003(East)						
1/24/2008	8002752140	Suwannee American Cement	26.88 Tons	0.00000	Not Applicable	0.00
1/24/2008	8002759848	Suwannee American Cement	26.31 Tons	0.00000	Not Applicable	0.00
1/28/2008	8002780507	Suwannee American Cement	26.78 Tons	0.00000	Not Applicable	0.00
1/28/2008	8002780520	Suwannee American Cement	26.44 Tons	0.00000	Not Applicable	0.00
1/28/2008	8002780613	Suwannee American Cement	27.18 Tons	0.00000	Not Applicable	0.00
1/28/2008	8002809542	Suwannee American Cement	27.21 Tons	0.00000	Not Applicable	0.00
1/28/2008	8002815217	Suwannee American Cement	26.54 Tons	0.00000	Not Applicable	0.00
1/28/2008	8002825893	Suwannee American Cement	26.58 Tons	0.00000	Not Applicable	0.00
1/29/2008	8002836596	Suwannee American Cement	27.29 Tons	0.00000	Not Applicable	0.00
1/29/2008	8002836612	Suwannee American Cement	26.64 Tons	0.00000	Not Applicable	0.00
1/29/2008	8002836816	Suwannee American Cement	26.79 Tons	0.00000	Not Applicable	0.00
1/30/2008	8002857469	Suwannee American Cement	26.37 Tons	0.00000	Not Applicable	0.00
1/30/2008	8002858093	Suwannee American Cement	26.86 Tons	0.00000	Not Applicable	0.00
1/30/2008	8002858424	Suwannee American Cement	26.54 Tons	0.00000	Not Applicable	0.00
1/31/2008	8002870099	Suwannee American Cement	26.87 Tons	0.00000	Not Applicable	0.00
1/31/2008	8002885394	Suwannee American Cement	27.13 Tons	0.00000	Not Applicable	0.00
1/31/2008	8002888048	Suwannee American Cement	26.31 Tons	0.00000	Not Applicable	0.00



Incoming Raw Materials Report

Date	Receiver No.	Supplier	Quantity Received	VOC Qty	VOC/UOM	Total VOC
3-Gray Cement-EU003(East)						
Summary for 3-Gray Cement-EU003(East) (53 receivers)			Total - All Deliveries:	1415.88	Tons	0.00
VOC Content of 3-Gray Cement-EU003(East) Not Applicable			Average per Delivery:	26.71	Tons	0.00



Incoming Raw Materials Report

Date	Receiver No.	Supplier	Quantity Received	VOC Qty	VOC/UOM	Total VOC
2-White Cement-EU002(West)						
2/18/2008	12001078	Rinker Materials	26.25 Tons	0.00000	Not Applicable	0.00
2/18/2008	12001083	Rinker Materials	26.14 Tons	0.00000	Not Applicable	0.00
2/20/2008	12001100	Rinker Materials	25.25 Tons	0.00000	Not Applicable	0.00
2/20/2008	12001102	Rinker Materials	26.30 Tons	0.00000	Not Applicable	0.00
2/20/2008	12001104	Rinker Materials	26.23 Tons	0.00000	Not Applicable	0.00
Summary for 2-White Cement-EU002(West) (5 receivers)			Total - All Deliveries:	130.17 Tons		0.00
VOC Content of 2-White Cement-EU002(West) Not Applicable			Average per Delivery:	26.03 Tons		0.00



Incoming Raw Materials Report

Date	Receiver No.	Supplier	Quantity Received	VOC Qty	VOC/UOM	Total VOC
3-Gray Cement-EU003(East)						
2/1/2008	8002894496	Suwannee American Cement	26.84 Tons	0.00000	Not Applicable	0.00
2/1/2008	8002904217	Suwannee American Cement	26.31 Tons	0.00000	Not Applicable	0.00
2/1/2008	8002904624	Suwannee American Cement	27.19 Tons	0.00000	Not Applicable	0.00
2/1/2008	8002915336	Suwannee American Cement	27.03 Tons	0.00000	Not Applicable	0.00
2/1/2008	8002915339	Suwannee American Cement	26.96 Tons	0.00000	Not Applicable	0.00
2/4/2008	8002923503	Suwannee American Cement	26.94 Tons	0.00000	Not Applicable	0.00
2/4/2008	8002923511	Suwannee American Cement	26.32 Tons	0.00000	Not Applicable	0.00
2/4/2008	8002923524	Suwannee American Cement	26.74 Tons	0.00000	Not Applicable	0.00
2/4/2008	8002926543	Suwannee American Cement	26.88 Tons	0.00000	Not Applicable	0.00
2/5/2008	8002930869	Suwannee American Cement	26.48 Tons	0.00000	Not Applicable	0.00
2/6/2008	8002935417	Suwannee American Cement	27.29 Tons	0.00000	Not Applicable	0.00
2/6/2008	8002937413	Suwannee American Cement	26.93 Tons	0.00000	Not Applicable	0.00
2/6/2008	8002939522	Suwannee American Cement	26.72 Tons	0.00000	Not Applicable	0.00
2/6/2008	8002947569	Suwannee American Cement	25.06 Tons	0.00000	Not Applicable	0.00
2/7/2008	8002948840	Suwannee American Cement	25.25 Tons	0.00000	Not Applicable	0.00
2/7/2008	8002949508	Suwannee American Cement	25.03 Tons	0.00000	Not Applicable	0.00
2/8/2008	8002949748	Suwannee American Cement	24.77 Tons	0.00000	Not Applicable	0.00
2/8/2008	8002968737	Suwannee American Cement	25.72 Tons	0.00000	Not Applicable	0.00



Incoming Raw Materials Report

Date	Receivor No.	Supplier	Quantity Received	VOC Qty	VOC/UOM	Total VOC
3-Gray Cement-EU003(East)						
2/8/2008	8002977472	Suwannee American Cement	25.11 Tons	0.00000	Not Applicable	0.00
2/11/2008	8003011430	Suwannee American Cement	27.12 Tons	0.00000	Not Applicable	0.00
2/11/2008	8003011482	Suwannee American Cement	26.70 Tons	0.00000	Not Applicable	0.00
2/11/2008	8003016368	Suwannee American Cement	27.36 Tons	0.00000	Not Applicable	0.00
2/12/2008	8003025942	Suwannee American Cement	26.97 Tons	0.00000	Not Applicable	0.00
2/12/2008	8003042081	Suwannee American Cement	26.41 Tons	0.00000	Not Applicable	0.00
2/12/2008	8003042096	Suwannee American Cement	26.53 Tons	0.00000	Not Applicable	0.00
2/14/2008	8003067772	Suwannee American Cement	26.85 Tons	0.00000	Not Applicable	0.00
2/14/2008	8003067802	Suwannee American Cement	26.22 Tons	0.00000	Not Applicable	0.00
2/14/2008	8003074719	Suwannee American Cement	26.49 Tons	0.00000	Not Applicable	0.00
2/15/2008	8003095308	Suwannee American Cement	26.53 Tons	0.00000	Not Applicable	0.00
2/15/2008	8003102243	Suwannee American Cement	27.01 Tons	0.00000	Not Applicable	0.00
2/15/2008	8003102417	Suwannee American Cement	26.44 Tons	0.00000	Not Applicable	0.00
2/16/2008	8003118287	Suwannee American Cement	26.89 Tons	0.00000	Not Applicable	0.00
2/16/2008	8003125388	Suwannee American Cement	26.63 Tons	0.00000	Not Applicable	0.00
2/16/2008	8003125420	Suwannee American Cement	26.50 Tons	0.00000	Not Applicable	0.00
2/18/2008	8003123209	Suwannee American Cement	25.87 Tons	0.00000	Not Applicable	0.00
2/18/2008	8003130826	Suwannee American Cement	26.77 Tons	0.00000	Not Applicable	0.00



Incoming Raw Materials Report

Date	Receiver No.	Supplier	Quantity Received	VOC Qty	VOC/UOM	Total VOC
3-Gray Cement-EU003(East)						
2/18/2008	8003134893	Suwannee American Cement	26.64 Tons	0.00000	Not Applicable	0.00
2/20/2008	8003170270	Suwannee American Cement	26.90 Tons	0.00000	Not Applicable	0.00
2/20/2008	8003170446	Suwannee American Cement	26.50 Tons	0.00000	Not Applicable	0.00
2/20/2008	8003172784	Suwannee American Cement	26.56 Tons	0.00000	Not Applicable	0.00
2/21/2008	8003189839	Suwannee American Cement	26.52 Tons	0.00000	Not Applicable	0.00
2/21/2008	8003205413	Suwannee American Cement	26.85 Tons	0.00000	Not Applicable	0.00
2/21/2008	8003205625	Suwannee American Cement	27.04 Tons	0.00000	Not Applicable	0.00
2/22/2008	8003210846	Suwannee American Cement	26.99 Tons	0.00000	Not Applicable	0.00
2/22/2008	8003210955	Suwannee American Cement	26.59 Tons	0.00000	Not Applicable	0.00
2/22/2008	8003230312	Suwannee American Cement	26.56 Tons	0.00000	Not Applicable	0.00
2/23/2008	8003238623	Suwannee American Cement	26.84 Tons	0.00000	Not Applicable	0.00
2/23/2008	8003243774	Suwannee American Cement	26.33 Tons	0.00000	Not Applicable	0.00
2/25/2008	80032138887	Suwannee American Cement	26.48 Tons	0.00000	Not Applicable	0.00
2/25/2008	8003238818	Suwannee American Cement	27.13 Tons	0.00000	Not Applicable	0.00
2/25/2008	8003261365	Suwannee American Cement	26.31 Tons	0.00000	Not Applicable	0.00
2/26/2008	8003289939	Suwannee American Cement	25.86 Tons	0.00000	Not Applicable	0.00
2/26/2008	8003301571	Suwannee American Cement	27.09 Tons	0.00000	Not Applicable	0.00
2/26/2008	8003301587	Suwannee American Cement	26.95 Tons	0.00000	Not Applicable	0.00



Incoming Raw Materials Report

Date	Receiver No.	Supplier	Quantity Received	VOC Qty	VOC/UOM	Total VOC
3-Gray Cement-EU003(East)						
2/27/2008	15321016545	Florida Rock Industries, Inc. (Astatula Sand Mine)	22.40 Tons	0.00000	Not Applicable	0.00
2/27/2008	8003305723	Suwannee American Cement	26.98 Tons	0.00000	Not Applicable	0.00
2/27/2008	8003315305	Suwannee American Cement	26.27 Tons	0.00000	Not Applicable	0.00
2/27/2008	8003322798	Suwannee American Cement	26.32 Tons	0.00000	Not Applicable	0.00
2/27/2008	8003329420	Suwannee American Cement	26.96 Tons	0.00000	Not Applicable	0.00
2/28/2008	8003340517	Suwannee American Cement	26.79 Tons	0.00000	Not Applicable	0.00
2/28/2008	8003350000	Suwannee American Cement	25.88 Tons	0.00000	Not Applicable	0.00
2/28/2008	8003358066	Suwannee American Cement	26.59 Tons	0.00000	Not Applicable	0.00
2/28/2008	8003358113	Suwannee American Cement	26.56 Tons	0.00000	Not Applicable	0.00
Summary for 3-Gray Cement-EU003(East) (63 receivers)			Total - All Deliveries:	1667.75 Tons		0.00
VOC Content of 3-Gray Cement-EU003(East) Not Applicable			Average per Delivery:	26.47 Tons		0.00

**Monthly Records to demonstrate compliance with
annual VOC emissions
(D7)**



Incoming Raw Materials Report

Date	Receivor No.	Supplier	Quantity Received	VOC Qty	VOC/UOM	Total VOC
Period: 1/2/2008 to 1/31/2008			Grand Total of All VOC's This Period:			0.00



Incoming Raw Materials Report

Date	Receiver No.	Supplier	Quantity Received	VOC Qty	VOC/UOM	Total VOC
Period:	2/1/2008	to	2/28/2008	Grand Total of All VOC's This Period:		0.00

**Monthly Crusher Throughput Records
(E9)**

January 2008

Crusher Daily Report

Day of Month	Total Buckets	Total TONS/DAY	Start Time	Stop Time	Start Time	Stop Time	Start Time	Stop Time	Total Time	Operator Name
1										
2										
3										
4	12	24	10:30 AM	12:30 PM					2.00	
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16	6	12	1:00 PM	2:00 PM					1.00	
17										
18										
19										
20										
21										
22	13	26	5:30 AM	7:30 AM					2.00	
23	10	20	11:30 AM	1:30 PM					2.00	
24										
25	10	20	6:00 AM	8:00 AM					2.00	
26										
27										
28										
29										
30										
31										
TOTAL BUCKETS:	51	Total TONS	102	AVG Tons Per HR	11.33	TOTAL RUN TIME	9.00	Hours		

FEBRUARY 2008

Crusher Daily Report

Day of Month	Total Buckets	Total TONS/DAY	Start Time	Stop Time	Start Time	Stop Time	Start Time	Stop Time	Total Time	Operator Name
1	10	20	6:30 AM	8:30 AM					2.00	
2										
3										
4										
5										
6										
7										
8										
9	10	20	9:00 AM	11:00 AM					2.00	
10										
11	10	20	2:00 PM	4:00 PM					2.00	
12										
13	10	20	1:00 PM	3:00 PM					2:00	
14	10	20	4:00 AM	6:00 AM					2.00	
15										
16										
17										
18										
19	15	30	6:30 AM	9:30 AM					3.00	
20										
21										
22										
23										
24										
25										
26	30	60	8:30 AM	1:30 PM					5.00	
27										
28										
29										
30										
31										
TOTAL BUCKETS	95	Total TONS	190	AVG Tons Per HR	10.56	TOTAL RUN TIME	18.00	Hours		