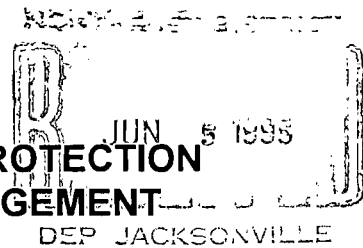


STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR RESOURCES MANAGEMENT



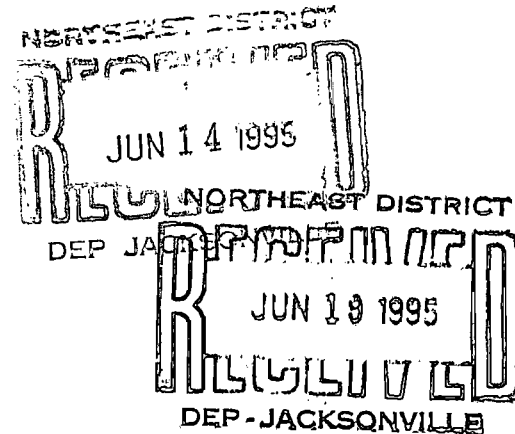
APPLICATION FOR AIR PERMIT - LONG FORM

I. APPLICATION INFORMATION

Identification of Facility Addressed in This Application

FLORIDA ROCK INDUSTRIES, GULF HAMMOCK QUARRY
Levy County, Florida
FDEP Northeast District

On US Hwy 19 approximately 15 miles south of Chiefland



Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official :

Name : Mr. Don Darley
Title : Director, Environmental Affairs

2. Owner or Authorized Representative or Responsible Official Mailing Address :

Organization/Firm : Florida Rock Industries, Inc.
Street Address : 155 East 21st Street
City : Jacksonville
State : FL Zip Code : 32206-____

3. Owner/Authorized Representative or Responsible Official Telephone Numbers :

Telephone : (904)355-1781 Fax : (904)355-0469

4. Owner/Authorized Representative or Responsible Official Statement :

I, the undersigned, am the owner or authorized representative of the facility (non-Title V source) addressed in this Application for Air Permit or the responsible official, as defined in Chapter 62-213, F.A.C., of the Title V source addressed in this application, whichever is applicable. 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. Further, I agree to operate and maintain the air pollutant emissions units and air pollution control equipment described in this application 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. If the purpose of this application is to obtain an air operation permit or operation permit revision for one or more emissions units which have undergone construction or modification, I 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. 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.*

Signature



Date

MAY 30, 1995

* Attach letter of authorization if not currently on file.

Scope of Application

<u>Emissions Unit ID</u>	<u>Description of Emissions Unit</u>
No Id	Grade 57 or 89 Aggregate Loadout Production Line
No Id	Grade 57 Aggregate Loadout Production Line

Purpose of Application and Category

Category I : All Air Operation Permit Applications Subject to Processing Under Chapter 62-213, F.A.C.

This Application for Air Permit is submitted to obtain :

[] Initial air operation permit under Chapter 62-213, F.A.C., for an existing facility which is classified as a Title V source.

[] Initial air operation permit under Chapter 62-213, F.A.C., for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number :

[] Air operation permit renewal under Chapter 62-213, F.A.C., for a Title V source.

Operation permit to be renewed :

[] Air operation permit revision for a Title V source to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number :

Operation permit to be revised :

[] Air operation permit revision or administrative correction for a Title V source to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application.

Operation permit to be revised/corrected :

[] Air operation permit revision for a Title V source for reasons other than construction or modification of an emissions unit.

Operation permit to be revised :

Reason for revision :

Category II : All Air Operation Permit Applications Subject to Processing Under Rule 62-210.300(2)(b), F.A.C.

This Application for Air Permit is submitted to obtain :

- ☐ Initial 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) :

- ☐ Renewal air operation permit under Rule 62-210.300(2)(b), F.A.C., for a synthetic non-Title V source.

Operation permit to be renewed :

- ☐ Air operation permit revision for a synthetic non-Title V source.

Operation permit to be revised :

Reason for revision :

Category III : All Air Construction Permit Applications for All Facilities and Emissions Units

This Application for Air Permit is submitted to obtain :

- ☒ Air construction permit to construct or modify one or more emissions units within a facility (including any facility classified as a Title V source).

Current operation permit number(s), if any :

- ☐ Air construction permit to make federally enforceable an assumed restriction on the potential

emissions of one or more existing, permitted emissions units.

Current operation permit number(s) :

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

Application Processing Fee

Attached - Amount : \$250.00

Construction/Modification Information

1. Description of Proposed Project or Alterations :

To replace an existing 5x12 ft double-deck TYROCK wet screen with a new 5x16 ft triple-deck SIMPLICITY wet screen used to screen grade 57 limerock aggregate. Also to replace an existing 5x16 ft double-deck SIMPLICITY wet screen with a new one of the same size and type.

2. Projected or Actual Date of Commencement of Construction : 1/ 6/95

↑
June

3. Projected Date of Completion of Construction : 1/ 8/95

↑
August

Professional Engineer Certification

1. Professional Engineer Name : Mr. Stephen Smallwood

Registration Number : 26630 FL

2. Professional Engineer Mailing Address :

Organization/Firm : Dames & Moore

Street Address : 122 South Calhoun Street

City : Tallahassee

State : FL

Zip Code : 32301-_____

3. Professional Engineer Telephone Numbers :

Telephone : (904)222-9600

Fax : (904)222-9692

4. Professional Engineer Statement :

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

(1) To the best of my knowledge, there is reasonable assurance (a) that the air pollutant emissions unit(s) and the air pollutant 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 in the Florida Statutes and rules of the Department of Environmental Protection; or (b) for any application for a TitleV source air operation permit, that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in the application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application;

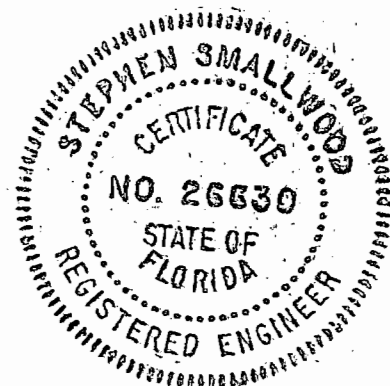
(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions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

(3) For any application for an air construction permit for one or more proposed new or modified emissions units, 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.

Stephen Smallwood P.E.
Signature

May 26, 1995
Date

* Attach any exception to certification statement.



Application Contact

1. Name and Title of Application Contact :

Name : Mr. Don Darley
Title : Director, Environmental Affairs

2. Application Contact Mailing Address :

Organization/Firm : Florida Rock Industries, Inc.
Street Address : 155 East 21st Street
City : Jacksonville
State : FL Zip Code : 32206-____

3. Application Contact Telephone Numbers :

Telephone : (904)355-1781 Fax : (904)355-0469

Application Comment

This is a previously unpermitted facility subject to a pending industry-wide consent order requiring all aggregate quarries which are subject to NSPS, Subpart OOO to obtain appropriate after-the-fact facility-wide Air Construction permits during 1995. The after-the-fact Air Construction application will be filed during summer 1995.

The application submitted herewith entails the following impending construction modifications proposed for the facility:

- 1) Replacement in-kind of the existing 5x16 ft wet screen component of grade 57 or 89 aggregate loadout production line.
- 2) Replacement of the existing 5x12 ft double-deck wet screen component of the grade 57 aggregate loadout production line with a 5x16 ft triple-deck wet screen.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Name, Location, and Type

1. Facility Owner or Operator : Florida Rock Industries, Inc.			
2. Facility Name : Gulf Hammock Quarry			
3. Facility Identification Number :			
4. Facility Location Information : FLORIDA ROCK INDUSTRIES, GULF HAMMOCK QUARRY Levy County, Florida FDEP Northeast District On US Hwy 19 approximately 15 miles south of Chiefland Facility Street Address : PO Box 226 City : Gulf Hammock, Florida County : Levy Zip Code : 32639-_____			
5. Facility UTM Coordinates : Zone : 17 East (km) : 334.10 North (km) : 3235.90			
6. Facility Latitude/Longitude : Latitude (DD/MM/SS) : 29 14 35 Longitude (DD/MM/SS) : 82 42 26			
7. Governmental Facility Code : 0	8. Facility Status Code : A	9. Relocatable Facility ? N	10. Facility Major Group SIC Code : 32
11. Facility Comment :			

Facility Contact

1. Name and Title of Facility Contact :

Name : Mr. William Elson
Title : Plant Manager

2. Facility Contact Mailing Address :

Organization/Firm : Florida Rock Industries, Inc.
Street Address : PO Box 226
City : Gulf Hammock
State : FL Zip Code : 32639-____

3. Facility Contact Telephone Numbers :

Telephone : (904)486-2161 Fax : (904)486-3163

Facility Regulatory Classifications

1. Small Business Stationary Source?	N
2. Title V Source?	Y
3. Synthetic Non-Title V Source?	N
4. Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?	N
5. Synthetic Minor Source of Pollutants Other than HAPs?	N
6. Major Source of Hazardous Air Pollutants (HAPs)?	N
7. Synthetic Minor Source of HAPs?	N
8. One or More Emissions Units Subject to NSPS?	Y
9. One or More Emission Units Subject to NESHAP?	N
10. Title V Source by EPA Designation?	N
11. Facility Regulatory Classifications Comment : Addition of new larger wet-screen addressed in this application (emission unit #2) subjects this facility to NSPS, Subpart OOO, therefore resulting in the facility being classified as a Title V source under the Department's current rules.	

B. FACILITY REGULATIONS

Rule Applicability Analysis

Addition of new larger wet-screen addressed in this application (emission unit #2) subjects this facility to NSPS, Subpart OOO, therefore resulting in the facility being classified as a Title V source under the Department's current rules.

B. FACILITY REGULATIONS

List of Applicable Regulations

See list on the following page

LIST OF APPLICABLE RULES

FLDEP Rules:

CHAPTER 62-4, F.A.C.: PERMITS effective 11-23-94

- 62-4.030, F.A.C.: General Prohibitions
- 62-4.060, F.A.C.: Exemptions
- 62-4.060, F.A.C.: Consultation
- 62-4.070, F.A.C.: Standards for Issuing or Denying Permits; Issuance; Denial
- 62-4.080, F.A.C.: Modification of Permit Conditions
- 62-4.090, F.A.C.: Renewals
- 62-4.100, F.A.C.: Suspension and Revocation
- 62-4.120, F.A.C.: Transfer of Permit
- 62-4.130, F.A.C.: Plant Operations - Problems
- 62-4.160, F.A.C.: Permit Conditions

CHAPTER 62-103, F.A.C.: RULES OF ADMINISTRATIVE PROCEDURE, effective 11-28-93

- 62-103.150, F.A.C.: Public Notice of Application and Proposed Agency Action.

CHAPTER 62-210, F.A.C.: STATIONARY SOURCES - GENERAL, effective 11-23-94

- 62-210.300, F.A.C.: Permits Required
- 62-210.300(1), F.A.C.: Air Construction Permits
- 62-210.300(3), F.A.C.: Exemptions
- 62-210.300(4), F.A.C.: Temporary Exemptions
- 62-210.300(5), F.A.C.: Notification of Startup
- 62-210.360, F.A.C.: Administrative Permit Corrections
- 62-210.370(3), F.A.C.: Annual Operating Report for Air Pollutant Emitting Facility
- 62-210.400, F.A.C.: Emission Estimates
- 62-210.650, F.A.C.: Circumvention
- 62-210.700, F.A.C.: Excess Emissions
- 62-210.900, F.A.C.: Forms & Instructions
- 62-210.900(1), F.A.C.: Application for Air Permit - Long Form, Form & Instructions
- 62-210.900(5), F.A.C.: Annual Operating Report for Air Pollutant Emitting Facility, Form & Instructions

CHAPTER 62-212, F.A.C.: STATIONARY SOURCES - PRECONSTRUCTION REVIEW, effective 11-23-94

CHAPTER 62-213, F.A.C.: OPERATION PERMITS FOR MAJOR SOURCES OF AIR POLLUTION, effective 11-23-94

CHAPTER 62-296, F.A.C.: STATIONARY SOURCES - EMISSION STANDARDS effective 11-23-94

- 62-296.310(3), F.A.C.: Unconfined Emissions of Particulate Matter
- 62-296.320(2), F.A.C.: Objectionable Odor Prohibited

CHAPTER 62-297, F.A.C.: STATIONARY SOURCES - EMISSIONS MONITORING, effective 11-23-94

- 62-297.310, F.A.C.: General Test Requirements
- 62-297.330, F.A.C.: Applicable Test Procedures
- 62-297.340, F.A.C.: Frequency of Compliance Test
- 62-297.350, F.A.C.: Determination of Process Variables
- 62-297.570, F.A.C.: Test Report
- 62-297.620, F.A.C.: Exceptions and Approval of Alternate Procedures and Requirements

U.S. EPA Rules:

40 CFR 60 Subpart A: General Provisions

40 CFR 60 Subpart OOO: Standards of Performance for Nonmetallic Minerals Processing Plants

C. FACILITY POLLUTANT INFORMATION

Facility Pollutant Information :

Pollutant 1

1. Pollutant Emitted : PM10

2. Estimated Emissions :
10.4000 (tons/year)

3. Requested Emissions Cap :
2.7000 (lbs/hour) 12.0000 (tons/year)

4. Basis for Emissions Cap Code : OTHER

5. Facility Pollutant Comment :

The unconfined emissions rule generally applies to all sources of unconfined or fugitive particulate matter for which there is not a more specific applicable performance standard. This rule requires the owner to employ reasonable measures to minimize the emission of unconfined particulate matter (that which is not vented through a stack or duct). The specific measures to be used for each emissions unit or facility-wide are to be specified in the air permits for the facility.

The applicant believes that the wet mining and processing of the limestone rock and the use of water spray bars above the double-deck screen constitutes the reasonable measures required for this emissions unit.

D. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications

1. Area Map Showing Facility Location :	Exhibit FRGH-1
2. Facility Plot Plan :	Exhibit FRGH-2
3. Process Flow Diagram(s) :	Exhibit FRGH-3
4. Precautions to Prevent Emissions of Unconfined Particulate Matter :	In application
5. Fugitive Emissions Identification :	In Application
6. Supplemental Information for Construction Permit Application :	

Additional Supplemental Requirements for Category I Applications Only

7. List of Insignificant Activities :	NA
8. List of Equipment/Activities Regulated under Title VI :	NA
9. Alternative Methods of Operation :	NA
10. Alternative Modes of Operation (Emissions Trading) :	NA
11. Enhanced Monitoring Plan :	NA
12. Risk Management Plan Verification :	NA
13. Compliance Report and Plan :	NA
14. Compliance Statement (Hard-copy Required) :	NA

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

Type of Emissions Unit Addressed in This Section

- ☐ 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).
- ☐ This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
- ☐ This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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 only.
- ☒ 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.

Emissions Unit Information Section 1

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Grade 57 or 89 Aggregate Loadout Production Line		
2. ARMS Identification Number : No Id		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? N	5. Emissions Unit Major Group SIC Code : 32
6. Initial Startup Date : 8/ 1/95		
7. Long-term Reserve Shutdown Date :		
8. Package Unit : Manufacturer : Model Number :		
9. Generator Nameplate Rating : MW		
10. Incinerator Information : Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment : Replacement in-kind of aged worn out double-deck aggregate wet-screen.		

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

Emissions Unit Control Equipment 1

1. Description :

Water spray-bars positioned above the wet screen. Water sprays are used primarily to force material through screens.

Limestone at this quarry is mined and processed wet.

2. Control Device or Method Code : 61

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	mmBtu/hr	
2. Maximum Incinerator Rate :		
	lb/hr	tons/day
3. Maximum Process or Throughput Rate :	1927200	
	Units :	Tons Processed
4. Maximum Production Rate :	220	
	Units :	Tons Per Hour
5. Operating Capacity Comment :		
	<p>The maximum production rate was determined by a load test conducted by the Plant Manager on 7 April 1995. The maximum throughput rate is computed from multiplying the maximum production rate by the requested maximum operating schedule (8760 hours per year).</p>	

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :

24 hours/day

7 days/week

52 weeks/year

8760 hours/year

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

Rule Applicability Analysis

Florida Rule 62-296.310, F.A.C. generally applies to all sources of unconfined or fugitive particulate matter for which there is not a more specific applicable performance standard. This rule requires the owner to employ reasonable measures to minimize the emission of unconfined particulate matter (that which is not vented through a stack or duct). The specific measures to be used for each emissions unit or facility-wide are to be specified in the air permits for the facility.

The applicant believes that the wet mining and processing of the limestone rock and the use of water spray bars above the double-deck screen constitutes the reasonable measures required for this emissions unit.

The new screen is one of a series of components that constitutes the production line. The "in-kind" replacement of this screen does not trigger applicability of the emission limiting standards of Subpart 000, but it does trigger the 40 CFR 60.676 "Reporting and Recordkeeping" requirements.

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

List of Applicable Regulations

62-296.310, F.A.C.: Unconfined Emissions of Particulate Matter.

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

List of Applicable Regulations

40 CFR 60 Subpart OOO - Nonmetallic Minerals Processing Plants.

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

List of Applicable Regulations

See the Facility Rule Applicability Analysis for other generally applicable rules.

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	FRGH-EP #1
2. Emission Point Type Code :	4
3. Descriptions of Emission Points Comprising this Emissions Unit :	Front-end loader loads to a hopper, through a JEFFREY pan feeder to a 30" conveyor, drops to replacement wet screen, drops to a 30" conveyor, dropped to loading bin, dropped to haul trucks with excess from bin to a 30" rail belt to bin clean-out pile.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	none
5. Discharge Type Code :	F
6. Stack Height :	feet
7. Exit Diameter :	feet
8. Exit Temperature :	°F
9. Actual Volumetric Flow Rate :	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate :	dscfm
12. Nonstack Emission Point Height :	22 feet
13. Emission Point UTM Coordinates :	Zone : 17 East (km) : 334.100 North (km) : 3235.900
14. Emission Point Comment :	The nonstack emission point height is taken as the vertical centroid of the unit's inclusive drop point elevations.

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Front-end loader transfer to hopper.	
2. Source Classification Code (SCC) : 3-05-020-33	
3. SCC Units : Tons Processed	
4. Maximum Hourly Rate : 220.000	5. Maximum Annual Rate : 1927200
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment : This segment consists of a single 8' drop height. Estimated Annual Activity Factor = .23 ELSA will not accept entry of a decimal value in field 6 (above).	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Conveyor transfer from hopper through pan feeder to double-deck screen.	
2. Source Classification Code (SCC) : 3-05-020-06	
3. SCC Units : Tons Processed	
4. Maximum Hourly Rate : 220.000	5. Maximum Annual Rate : 1927200
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment : This segment includes 2 drop points: 1' drop height through a pan feeder onto a conveyor; 2' drop height from conveyor onto the wet screen. Estimated Annual Activity Factor = .23 ELSA will not accept entry of a decimal value in field 6 (above).	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

Segment Description and Rate : Segment 3

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Screening with wet suppression	
2. Source Classification Code (SCC) : 3-05-020-02	
3. SCC Units : Tons Processed	
4. Maximum Hourly Rate : 220.000	5. Maximum Annual Rate : 1927200
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment : This wet screen will be replaced in-kind. Estimated Annual Activity Factor = .23 ELSA will not accept entry of a decimal value in field 6 (above).	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

Segment Description and Rate : Segment 4

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Conveyor transfer from double-deck screen to loading bin.	
2. Source Classification Code (SCC) : 3-05-020-06	
3. SCC Units : Tons Processed	
4. Maximum Hourly Rate : 220.000	5. Maximum Annual Rate : 1927200
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment : This segment has 2 drop points: a 4.5' drop from wet screen onto a conveyor; a 12' drop from the conveyor into the truck loading bin. Estimated Annual Activity Factor = .23 ELSA will not accept entry of a decimal value in field 6 (above).	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

Segment Description and Rate : Segment 5

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Truck load-out from loading bin.	
2. Source Classification Code (SCC) : 3-05-020-32	
3. SCC Units : Tons Processed	
4. Maximum Hourly Rate : 220.000	5. Maximum Annual Rate : 1927200
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment : This segment consists of a single 5' drop only. Estimated Annual Activity Factor = .23 ELSA will not accept entry of a decimal value in field 6 (above).	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

Segment Description and Rate : Segment 6

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Excess from loading bin transferred to front-end loader via conveyor.	
2. Source Classification Code (SCC) : 3-05-020-32	
3. SCC Units : Tons Processed	
4. Maximum Hourly Rate : 0.000	5. Maximum Annual Rate : 0
6. Estimated Annual Activity Factor : 0	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment : This segment receives negligible usage - the actual annual process throughput is 300 tons. For purposes of calculating potential emissions, this segment will not apply. It is only used to divert excess stone from load-out bin that is not loaded onto trucks back to the storage pile. It would not be used if load-out process were continuous (8760 hours per year).	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

Segment Description and Rate : Segment 7

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Excess returned to pile by front-end loader.	
2. Source Classification Code (SCC) : 3-05-020-33	
3. SCC Units : Tons Processed	
4. Maximum Hourly Rate : 0.000	5. Maximum Annual Rate : 0
6. Estimated Annual Activity Factor : 0	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment : This segment receives negligible usage - the actual annual process throughput is 300 tons. For purposes of calculating potential emissions, this segment will not apply. It is only used to divert excess stone from load-out bin that is not loaded onto trucks back to the storage pile. It would not be used if load-out process were continuous (8760 hours per year).	

E. POLLUTANT INFORMATION

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : PM10			
2. Total Percent Efficiency of Control :		%	
3. Primary Control Device Code :		061	
4. Secondary Control Device Code :			
5. Potential Emissions :		1.0000 lb/hour	4.4000 tons/year
6. Synthetically Limited? N			
7. Range of Estimated Fugitive/Other Emissions:		1 1.0000	to 5.0000 tons/year
8. Emissions Factor : 0.00461 Units : lb/ton Reference : AP-42			
9. Emissions Method Code : 3			
10. Calculations of Emissions : 220 T/hr x .00461 lb/T = 1.014 lb/hr (1.014 lb/hr x 8760 hr/yr) / 2000 lb/T = 4.442 T/yr			
11. Pollutant Potential/Estimated Emissions Comment : Segments 6 & 7 not included in Potential Emissions calculation (see Segment 6 & 7 comments).			

DESCRIPTION

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code : OTHER		
2. Future Effective Date of Allowable Emissions :		
3. Requested Allowable Emissions and Units :	6.0	Tons per year
4. Equivalent Allowable Emissions :		
	lb/hour	tons/year
5. Method of Compliance :		
<p>The unconfined emissions rule requires the owner of such a source to employ reasonable measures to minimize the emission of unconfined particulate matter (that which is not vented through a stack or duct). The applicant believes that the wet mining and processing of the limestone rock and the use of water spray bars above the double-deck screen constitutes the reasonable measures required for this emissions unit.</p> <p>Compliance with emissions limits shall be determined by calculation of estimated potential emissions based on the emission factors used in this application.</p>		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :		
<p>The unconfined emissions rule generally applies to all sources of unconfined or fugitive particulate matter for which there is not a more specific applicable performance standard. The specific measures to be used for each emissions unit or facility-wide are to be specified in the air permits for the facility.</p> <p>The applicable emission factors are a function of the aggregate's bulk moisture content, the particle size and the mean wind speed in the area. Compliance can be verified by observation of mining and processing of the rock under wet conditions. Observation of the aggregate in a wet state and observation of no visible emissions will provide further confirmation of compliance.</p>		

DESCRIPTION

Note: Application of the Unconfined Particulate Matter Emissions Rule supersedes applicability of any Visible Emissions standard for all segments but the new wet screen. Subpart 000 specifies the visible emission limit applicable to the new screen, and where and how compliance with this limit is to be verified.

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :
2. Basis for Allowable Opacity :
3. Requested Allowable Opacity : <div style="text-align: right; margin-right: 100px;">Normal Conditions : % Exceptional Conditions : % Maximum Period of Excess Opacity Allowed : min/hour</div>
4. Method of Compliance :
5. Visible Emissions Comment : Not applicable. The UPM Emission Rule applies.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code :
2. CMS Requirement :
3. Monitor Information : Manufacturer : Model Number : Serial Number :
4. Installation Date :
5. Performance Specification Test Date :
6. Continuous Monitor Comment : Not required.

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- ☐] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- ☐] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- ☐] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- ☐] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- ☒] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

- ☐] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- ☐] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ☐] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ☐] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ☐] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :

PM : U
SO2 :
NO2 :

4. Baseline Emissions :

PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year

5. PSD Comment :

No SO2 or NO2 emissions.

Analysis beyond the scope of this application is needed to determine whether these PM10 emissions expand or consume PSD increment.

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 1

Grade 57 or 89 Aggregate Loadout Production Line

Supplemental Requirements for All Applications

1. Process Flow Diagram :	Exhibit FRGH-3
2. Fuel Analysis or Specification :	NA
3. Detailed Description of Control Equipment :	NA
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	
9. Other Information Required by Rule or Statute :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alternative Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	NA

13. Identification of Additional Applicable Requirements :

NA

14. Acid Rain Application (Hard-copy Required) :

Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))

Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)

New Unit Exemption (Form No. 62-210.900(1)(a)2.)

Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 2

Grade 57 Aggregate Loadout Production Line

Type of Emissions Unit Addressed in This Section

- ☐ 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).
- ☐ This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
- ☐ This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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 only.
- ☒ 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.

Emissions Unit Information Section 2

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Grade 57 Aggregate Loadout Production Line		
2. ARMS Identification Number :		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? N	5. Emissions Unit Major Group SIC Code : 32
6. Initial Startup Date : 8/ 1/95		
7. Long-term Reserve Shutdown Date :		
8. Package Unit : Manufacturer : Model Number :		
9. Generator Nameplate Rating : MW		
10. Incinerator Information : Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment : Replacement of existing TYROCK 5'x12' double-deck aggregate wet-screen with new SIMPLICITY 5'x16' triple-deck aggregate wet screen.		

Emissions Unit Information Section 2

Grade 57 Aggregate Loadout Production Line

Emissions Unit Control Equipment 1

1. Description :

Water spray bars positioned above the wet screen. Water sprays are used primarily to force material through screens.

Limestone at this quarry is mined and processed wet.

2. Control Device or Method Code : 61

Emissions Unit Information Section 2

Grade 57 Aggregate Loadout Production Line

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	mmBtu/hr
2. Maximum Incinerator Rate :	
	lb/hr tons/day
3. Maximum Process or Throughput Rate :	2584200
	Units : Tons Processed
4. Maximum Production Rate :	
	Units :
5. Operating Capacity Comment :	
	The maximum production rate was determined by a load test conducted by the Plant Manager on 7 April 1995. The maximum throughput rate is computed from multiplying the maximum production rate by the requested maximum operating schedule (8760 hours per year).

Emissions Unit Information Section 2

Grade 57 Aggregate Loadout Production Line

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :

24 hours/day

7 days/week

52 weeks/year

8760 hours/year

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section

2

Grade 57 Aggregate Loadout Production Line

Rule Applicability Analysis

Florida Rule 62 - 296.310 F.A.C. generally applies to all sources of unconfined or fugitive particulate matter for which there is not a more specific applicable performance standard. This rule requires the owner to employ reasonable measures to minimize the emission of unconfined particulate matter (that which is not vented through a stack or duct). The specific measures to be used for each emissions unit or facility-wide are to be specified in the air permits for the facility.

The applicant believes that the wet mining and processing of the limestone rock and the use of water spray bars above the double-deck screen constitutes the reasonable measures required for this emissions unit.

The new screen is one of a series of components that constitute the production line. Since this replacement of this screen is also an upgrade, it is subject to EPA NSPS Rule 40 CFR 60, Subpart OOO, Nonmetallic Minerals Processing Plants. The other components (segments) of this production line are subject to the Unconfined Particulate Matter rule.

Subpart OOO specifies the applicable visible emissions limits, compliance test requirements and the reporting and record keeping requirements.

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 2

Grade 57 Aggregate Loadout Production Line

List of Applicable Regulations

62-296.310, F.A.C.: Unconfined Emissions of Particulate Matter.

9

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 2

Grade 57 Aggregate Loadout Production Line

List of Applicable Regulations

40 CFR 60 Subpart OOO - Nonmetallic Minerals Processing Plants.

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 2

Grade 57 Aggregate Loadout Production Line

List of Applicable Regulations

See the Facility Rule Applicability Analysis for other generally applicable rules.

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 2

Grade 57 Aggregate Loadout Production Line

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	FRGH-EP #2
2. Emission Point Type Code :	4
3. Descriptions of Emission Points Comprising this Emissions Unit :	Front-end loader loads to a hopper, to a 24" conveyor, dropped to upgraded wet screen, screening, dropped to two 24" conveyors: one drops to truck load-out conveyor, other drops to storage pile, storage pile is remixed with grade 57s via front-end loader.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	none
5. Discharge Type Code :	F
6. Stack Height :	feet
7. Exit Diameter :	feet
8. Exit Temperature :	°F
9. Actual Volumetric Flow Rate :	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate :	dscfm
12. Nonstack Emission Point Height :	13 feet
13. Emission Point UTM Coordinates :	Zone : 17 East (km) : 334.100 North (km) : 3235.900
14. Emission Point Comment :	The nonstack emission point height is taken as the vertical centroid of the unit's inclusive drop point elevations.

40 CFR 60, Subpart OOO specifies where and how the visible emissions (if any) from the new screen [segment] are to be read. The other segments are not subject to a visible emissions limit.

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 2

Grade 57 Aggregate Loadout Production Line

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Front-end loader loads to hopper.	
2. Source Classification Code (SCC) : 3-05-020-33	
3. SCC Units : Tons Processed	
4. Maximum Hourly Rate : 295.000	5. Maximum Annual Rate : 2584200
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment : Segment consists of a single 8' drop height. Estimated Annual Activity Factor = .12 ELSA will not accept entry of a decimal value in field 6 (above).	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 2

Grade 57 Aggregate Loadout Production Line

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Conveyor transfers from hopper to triple-deck wet screen.	
2. Source Classification Code (SCC) : 3-05-020-06	
3. SCC Units : Tons Processed	
4. Maximum Hourly Rate : 295.000	5. Maximum Annual Rate : 2584200
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment : Segment consists of 2 drops: a 0.5' drop height from hopper onto conveyor; a 6' drop height from conveyor onto wet screen. Estimated Annual Activity Factor = .12 ELSA will not accept entry of a decimal value in field 6 (above).	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 2

Grade 57 Aggregate Loadout Production Line

Segment Description and Rate : Segment 3

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Screening with wet suppression.	
2. Source Classification Code (SCC) : 3-05-020-02	
3. SCC Units : Tons Processed	
4. Maximum Hourly Rate : 295.000	5. Maximum Annual Rate : 2584200
6. Estimated Annual Activity Factor : 12	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment : Estimated Annual Activity Factor = .12 ELSA will not accept entry of a decimal value in field 6 (above). Existing TYROCK 5'x12' double-deck wet screen to be replaced with a new SIMPLICITY 5'x16' triple-deck wet screen. This replacement is to facilitate screening (segregation) of an additional, industry specified, grade of stone. The additional screening process will be within the limit of current operating capacity (throughput rate). The throughput rate of the unit will not be affected by installation	

of the upgraded screen.

The new (upgraded) screen subjects this segment to NSPS.

This is the only segment in Unit 2 subject to 40 CFR 60, Subpart OOO. All other segments are subject to the Unconfined Particulate Matter emissions rule. Subpart OOO specifies where and how the visible emissions (if any) from the new screen are to be read.

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 2

Grade 57 Aggregate Loadout Production Line

Segment Description and Rate : Segment 4

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Conveyors transfer from triple-deck wet screen to truck loadout.	
2. Source Classification Code (SCC) : 3-05-020-32	
3. SCC Units : Tons Processed	
4. Maximum Hourly Rate : 100.000	5. Maximum Annual Rate : 876000
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment : This segment consists of 2 drop points: a 5' drop height from wet screen onto conveyor; a 12' drop height from conveyor onto truck. Estimated Annual Activity Factor = .06 ELSA will not accept entry of a decimal value in field 6 (above).	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 2

Grade 57 Aggregate Loadout Production Line

Segment Description and Rate : Segment 5

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Conveyor transfer from wet screen to storage pile.	
2. Source Classification Code (SCC) : 3-05-020-06	
3. SCC Units : Tons Processed	
4. Maximum Hourly Rate : 195.000	5. Maximum Annual Rate : 1708200
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment : This segment consists of 2 drop points: a 6' drop from wet screen onto conveyor; an 18' drop from conveyor onto rejects pile. Estimated Annual Activity Factor = .14 ELSA will not accept entry of a decimal value in field 6 (above).	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 2

Grade 57 Aggregate Loadout Production Line

Segment Description and Rate : Segment 6

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Front-end loader transfers from storage pile to remix pile.	
2. Source Classification Code (SCC) : 3-05-020-33	
3. SCC Units : Tons Processed	
4. Maximum Hourly Rate : 195.000	5. Maximum Annual Rate : 1708200
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment : This segment consists of a single 8' drop. Estimated Annual Activity Factor = .14 ELSA will not accept entry of a decimal value in field 6 (above).	

E. POLLUTANT INFORMATION

Emissions Unit Information Section 2

Grade 57 Aggregate Loadout Production Line

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : PM10		
2. Total Percent Efficiency of Control : %		
3. Primary Control Device Code : 061		
4. Secondary Control Device Code :		
5. Potential Emissions : 1.4000 lb/hour 6.0000 tons/year		
6. Synthetically Limited? N		
7. Range of Estimated Fugitive/Other Emissions: to tons/year		
8. Emissions Factor : 0.00461 Units : lb/ton Reference : AP-42		
9. Emissions Method Code : 3		
10. Calculations of Emissions : 295 T/hr x .00461 lb/T = 1.360 lb/hr (1.360 lb/hr x 8760 hr/yr) / 2000 lb/T = 5.957 T/yr		
11. Pollutant Potential/Estimated Emissions Comment : Potential emissions were calculated for each segment by multiplying the maximum throughput rate for the segment by the segment emission factor. The sum of all segment potential emissions was divided		

by the unit throughput rate to determine the effective emission factor.

DESCRIPTION

Emissions Unit Information Section 2

Grade 57 Aggregate Loadout Production Line

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code : OTHER		
2. Future Effective Date of Allowable Emissions :		
3. Requested Allowable Emissions and Units :	9.0 ^{tpy}	Tons per Year
4. Equivalent Allowable Emissions :		
	lb/hour	tons/year
5. Method of Compliance : The unconfined emissions rule requires the owner to employ reasonable measures to minimize the emission of unconfined particulate matter (that which is not vented through a stack or duct). The applicant believes that the wet mining and processing of the limestone rock and the use of water spray bars above the double-deck screen constitutes the reasonable measures required for this emissions unit. Compliance with emissions limits shall be determined by calculation of estimated potential emissions based on the emission factors used in this application.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : The unconfined emissions rule generally applies to all sources of unconfined or fugitive particulate matter for which there is not a more specific applicable performance standard. The specific measures to be used for each emissions unit or facility-wide are to be specified in the air permits for the facility. The applicable emission factors are a function of the aggregate's bulk moisture content, the particle size and the mean wind speed in the area. Compliance can be verified by observation of mining and processing of the rock under wet conditions. Observation of the aggregate in a wet state and observation of no visible emissions will provide further confirmation of compliance.		

DESCRIPTION

Note: Application of the Unconfined Particulate Matter Emissions Rule supersedes applicability of any Visible Emissions standard.

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 2

Grade 57 Aggregate Loadout Production Line

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	VEF
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
	Normal Conditions : %
	Exceptional Conditions : %
	Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :	
	As specified in 40 CFR 60, Subpart 000.
5. Visible Emissions Comment :	
	Subpart "000", Visible Emission requirement applies to the screening operation.

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 2

Grade 57 Aggregate Loadout Production Line

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code :
2. CMS Requirement :
3. Monitor Information : Manufacturer : Model Number : Serial Number :
4. Installation Date :
5. Performance Specification Test Date :
6. Continuous Monitor Comment : Not required.

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 2

Grade 57 Aggregate Loadout Production Line

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- ☐ The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- ☐ The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- ☐ The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- ☐ For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- ☒ None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

- ☐] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- ☐] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ☐] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ☐] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ☐] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :

PM : U
SO2 :
NO2 :

4. Baseline Emissions :

PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year

5. PSD Comment :

No SO2 or NO2 emissions.

Analysis beyond the scope of this application is needed to determine whether these PM10 emissions expand or consume PSD increment

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 2

Grade 57 Aggregate Loadout Production Line

Supplemental Requirements for All Applications

1. Process Flow Diagram :	FRGH-3
2. Fuel Analysis or Specification :	NA
3. Detailed Description of Control Equipment :	NA
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statute :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alternative Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	NA

13. Identification of Additional Applicable Requirements :

NA

14. Acid Rain Application (Hard-copy Required) :

NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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Gulf Hammock, Florida
Quadrangle

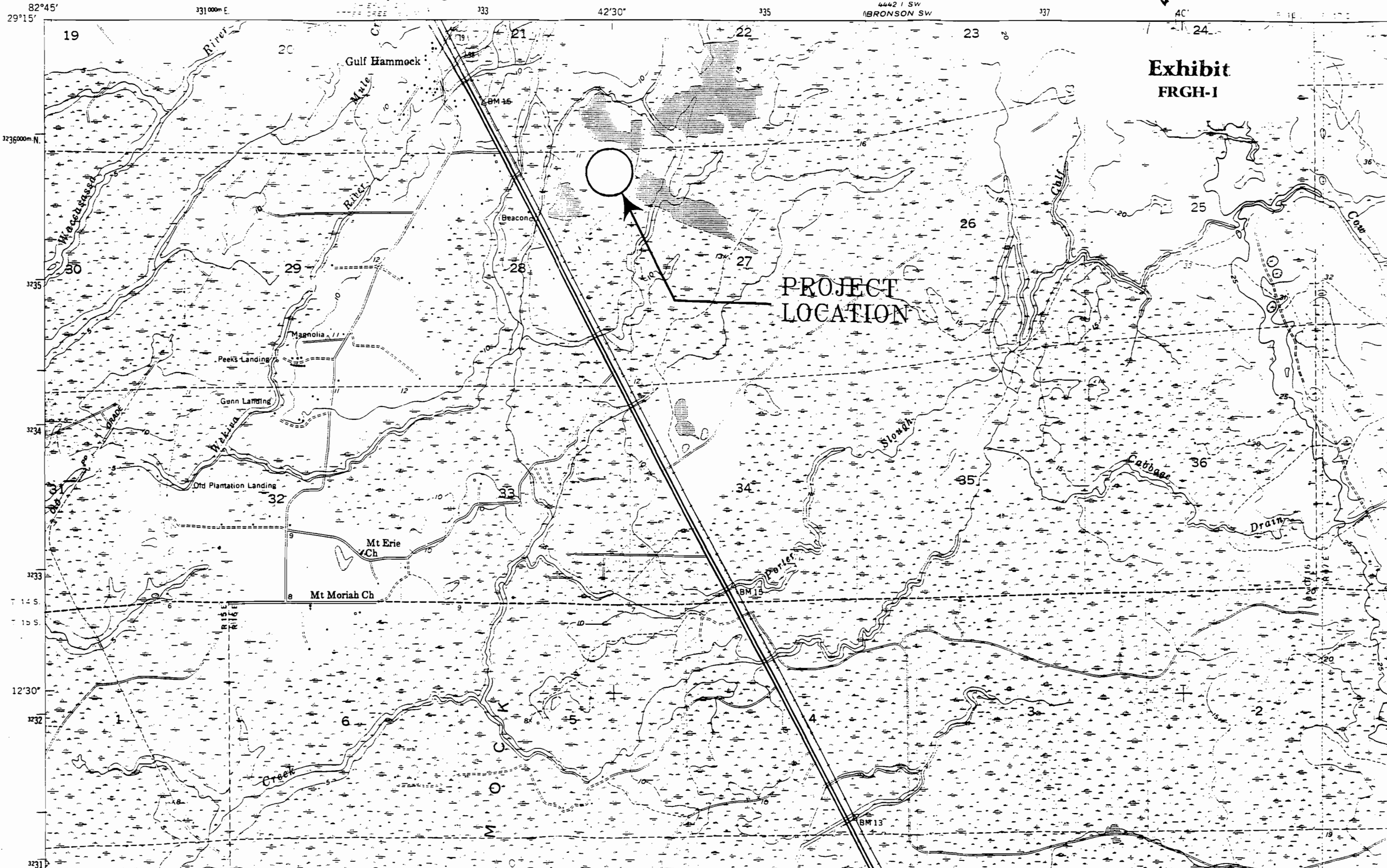
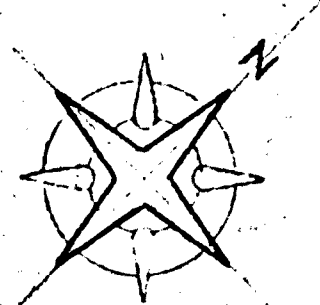


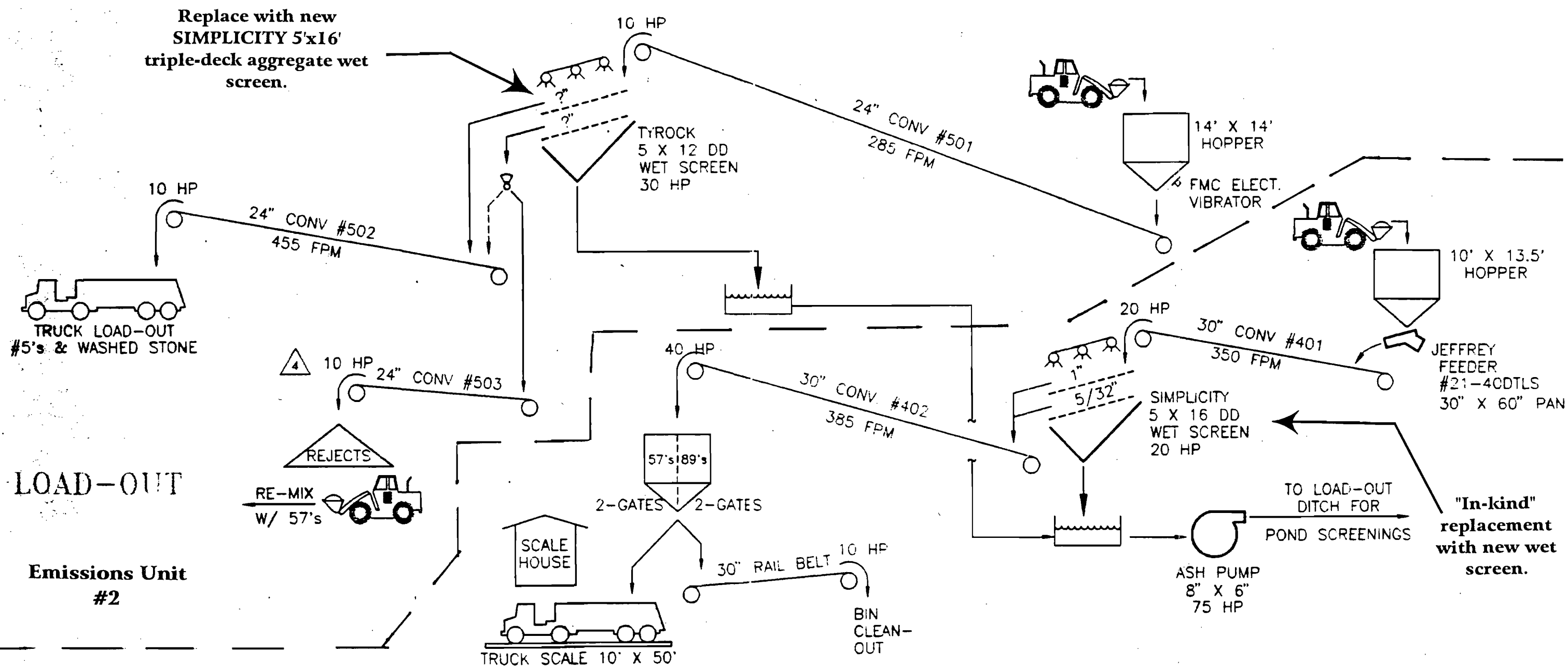
Exhibit
FRGH-1

PROJECT
LOCATION



**Exhibit
FRGII-2**

REVISION	DATE	DESCRIPTION	BY	DR. NO. 1-117-02-001	SCALE 1" = 30'
13	11-28-83	REDRAWN	RH	PLANT LAYOUT GULF HAMMOCK	
14	9-24-92	REVISED			
15	4-13-95	UPDATE LOADOUT AREA	RH		
				FLORIDA ROCK INDUSTRIES, INC. AGGREGATES GROUP ENGINEERING DEPT. JACKSONVILLE, FLORIDA	DRAWN <i>RH</i> DATE 11-28-83 CHKD.



LOAD-OUT

Emissions Unit
#2

Emissions Unit
#1

Process Flow Diagrams

Unit 1: Grade 57 or 89

Aggregate Loadout

Unit 2: Grade 57 Aggregate

Loadout

Exhibit
FRGH-3

DEP ROUTING AND TRANSMITTAL SLIP

TO: (NAME, OFFICE, LOCATION)

1. Bruce Mitchell 2. BAE/DARM 3. RECEIVED
M. S. JUN 5 5 08

PLEASE PREPARE REPLY FOR:

____ SECRETARY'S SIGNATURE
 ____ DIV/DIST DIR SIGNATURE
 ____ MY SIGNATURE
 ____ YOUR SIGNATURE
 ____ DUE DATE _____

ACTION/DISPOSITION

____ DISCUSS WITH ME
 ____ COMMENTS/ADVISE
 ____ REVIEW AND RETURN
 ____ SET UP MEETING
 ____ FOR YOUR INFORMATION
 ____ HANDLE APPROPRIATELY
 ____ INITIAL AND FORWARD
 ____ SHARE WITH STAFF
 ____ FOR YOUR FILES

COMMENTS:

Bureau of
 Air Regulation

Bruce,
 I'm forwarding a
 copy of Florida Rocks
 Gulf Hammock Quarry
 Permit application
 for your opinion. This
 is the application we
 discussed last week.
 It looks like, from
 the segment info., that
 this will cover the
 whole facility more or
 less. What do you
 think. Any input on
 your part, will be
 helpful.

FROM:

Rita Felton

DATE:

6-21-95

PHONE:

880-4310

I N T E R O F F I C E M E M O R A N D U M

Date: 07-Jul-1995 11:14am EST
From: Rita Felton JAX
FELTON_R@A1@JAX1
Dept: Northeast District Office
Tel No: 904/448-4310 Ext. 237
SUNCOM:

TO: Bruce Mitchell TAL

(MITCHELL_B@A1@DER)

Subject: Rock Crushers

Bruce,

As you know, I am processing a construction permit application for a rock crushing facility in Levy County. The facility has two production lines both which they plan to install new vibrating screens. One a larger triple screen and the other an in kind, double screen. So I gather the following from reading Subpart 000.

1. Since the facility was in existence prior to the NSPS, it in itself is not subject to the requirements of Subpart 000. Ag 31, 1983
2. NSPS applies only to the segment of the production line that is being modified, replaced, constructed or reconstructed, and not to the whole production line or facility. Y
3. Since one ^{reporting unit} screen is being replaced with an exact model, only the record keeping requirements are applicable to that screen. Y
4. Since the other screen is being replaced with a larger model, it is subject to the requirements of NSPS. Y
5. Since this facility does not control emissions with a wet scrubber, nor are the emissions from the screening operation controlled through a stack, the limiting standard is 10 percent opacity (for fugitive emissions) for the emissions coming from the screening operation only. Y ≤
6. The visible emissions must be tested using Method 9. Y
7. The facility must submit reports of the results of the Method 9 testing to EPA. N
8. The facility must supply the original dimensions and descriptions of the screen to be replaced and also the same for the replacement screens. This is to be submitted to EPA. N

9. Since the NSPS is only applicable to the screens themselves, the general VE limitation of 20% applies to the other segments in the production lines? Further, since one production line has an in kind screen replacement (which only has recordkeeping requirements), it is subject to the general VE requirement of 20% also. Therefore, that whole production line is subject to the 20% opacity limitation. Concrete batch plants are more stringent than this!

10. If the above is correct, then I can only put the applicable portions of the NSPS standard conditions that are on the network into this construction permit, correct?

11. These facilities are required by the statewide consent order to submit an after the fact construction permit application by August 1, 1995, correct?

Your help in deciphering the NSPS requirement would be greatly appreciated.

Thank you.

Rita

Interoffice Memo

From: Rita Felton To: Bruce Mitchell

Date: 7/7/85

Comment / Response

123 & 4) Applicability:

40 C.F.R. 60, Subpart O³.

- a) Both facilities are subject to this Subpart (40 C.F.R. 60.670 (e)).
- b) Facility #1 (Unit #1) is subject to only the reporting and recordkeeping requirements of Subpart O³ (40 C.F.R. 60.676) because it replaces a facility of equal size (40 C.F.R. 60.670 (d)).
- c) If all of the facilities (conveyors, loaders, screens, & etc.) within the production line were being replaced, Facility #1 would be subject to all requirements (standards, reporting, and recordkeeping) of Subpart O³.
- d) Facility #2 is subject to all requirements of Subpart O³.

5) Facility #3 is subject to a 10% opacity standard.

Note: Response 1.6 is correct only if the existing facility existed or was constructed before Subpart O³ was promulgated (Aug. 1, 1985). If not, Facility #1 is subject to all requirements in Subpart O³.

6) 3) Correct, EPA Method 9 should be used to demonstrate compliance with Opacity Standards.

7) 4)

Smallwood said in
applying that Unit #1
was sub to ^{only} 40 CFR 60.310

This is not correct

Unit #1 - 40 CFR 60.676 Rep & Rec Test

Florida Rock Industries, Inc.
Gulf Hammock Quarry

NSPS "000" Sand Gravel & Crushed Stone plants
 > 25 TPH Fixed
 ~~> 150 TPH Portable~~
 PM $\frac{1}{4}$ VE [meth. 5 & meth. 9]

APP / Pt - PM10 - 10.4 TPY
Reg - 2.7 #/hr 12.0 TPY

- 1) PE Form improperly sealed
- 2) No IC engine & Fuel used for driving
crushers and belts used to be listed.
- 3) What is in grade 57 & 89 aggregate?
- 4) Facility Pollutant Info
PM10 10.4 TPY (Reg. Cap 2.7 #/hr, $\frac{1}{2}$ 12.0 TPY)

Unit 1 Throughput Rate - 1,927,200 Tons processed/yr.
220 TPH
8760 HPY

57 & 89
Aggregate
Loadout

Stack Emissions PM - 1 #/hr @ 4.4 TPY
Eng/other emission factor 0.00461 #/T AP-42

Reg 6 TPY
Activity Factor = 2.3

5) Fac. Reg. Class
#11/

Addition of new larger unit #2
Unit #1 replaced with same

~~Add of new larger unit subjects
the facility to NSPS, Sub O³~~

6) Why is O³ listed as applicable in
emission unit #1 Sec.

7) D. # for Unit 1, #10 Reg. ^{#6} Comment ref.
an actual process throughput of 300 tons
not 220?

8) No VE limit?

9) Front end loader
Engines driving conveyors
Trucks & Fugitives

10) Emission Unit 2 57 aggregate loadout
Replace VProck 5'x12' dbl-deck w/ Simplicity
5'x16' Triple-deck aggregate wet screen
Throughput 295 T/hr 2584200 T/Y
Activity Factor = .12

Unit #2

11) Reported TPY Throughput but not
the hourly

12) Why do rates downstream of screen
change for Unit 2 & Not Unit #1?
What happens to the 195 #/hr throughput
[295 #/hr - 100 #/hr] downstream of screen?

[Activity Factor goes from 0.12 to 0.06]

AF - .12	FEL - screen	295 #/hr	2584200
= .06	Screen - loadout	100	876000
= .14	Screen - Stg Pile	195	1,708,200
	Pile - re-mix	195	1,708,200

Potential 1.4 #/hr 6.0 TPY
Emission Factor .0046 / AFE

Reg All = 9.0 TPY

13) VE - Sub O^3 value not provided
just referenced O^3

62-296
296.310

State

Ass Attainment

$$E = 17.31 A^{0.16}$$

Unit #1

$$E = 17.31 (220)^{0.16} = 41.03 \text{ \# / hr.}$$

$$\frac{220 \text{ \#}}{\text{hr.}} \bigg/ \frac{24 \text{ hr.}}{\text{day}} \bigg/ \frac{2000 \text{ \#}}{\text{TPH}} = 11 \text{ TPH}$$

$$E = 3.59 A^{0.62} = 3.59 (.11)^{0.62} = 0.91 \text{ \# / hr. at}$$

220 TPH

$$E = 17.31 (220)^{0.16} = 41 \text{ \# / hr.}$$

AP 42

$$E = A(.0032) \left(\frac{u}{5} \right)^{1.3}$$

$$\left(\frac{u}{5} \right)^{1.4}$$

Top End High

$$= 0.35 (.0032) \left(\frac{1.5}{5} \right)^{1.3}$$

$$\left(\frac{1.7 \text{ (mean)}}{5} \right)^{1.4}$$

$$= .030 \text{ \# / TPH}$$

$$P_{at} = .02 (220) = 4.4 \text{ \# / hr.}$$

$$\approx 19.57 \text{ TPH}$$

$$u = 4.8$$

$$E = .00137 \text{ \# / TPH}$$

$$P_{at} E = .3 \text{ \# / hr.} \approx 1.32 \text{ TPH}$$

11/2-3
Appropriate
Handling
Storage Unit

Unit #2

$$\text{Potential } 02^{\#} / \frac{295 - \text{In}}{\text{In}} / \frac{8760}{3000} = \underline{\underline{25.84}}$$

Mag >