

# Department of Environmental Protection

## Division of Air Resources Management

RECEIVED

JUN 18 1999

### 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: <b>Florida Crushed Stone Company</b>	
2. Site Name: <b>St. Catherine Mine</b>	
3. Facility Identification Number: <b>1190017</b> <span style="float: right;">[ ] Unknown</span>	
4. Facility Location: Street Address or Other Locator: <b>Highway 673</b> City: <b>St. Catherine</b> County: <b>Sumter</b> Zip Code: <b>33513</b>	
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: <b>Ken Conwell, Project Engineer</b>	
2. Application Contact Mailing Address: Organization/Firm: <b>Koogler &amp; Associates</b> Street Address: <b>4014 NW 13<sup>th</sup> Street</b> City: <b>Gainesville</b> State: <b>FL</b> Zip Code: <b>34609</b>	
3. Application Contact Telephone Numbers: Telephone: <b>(352) 377 - 5822</b> Fax: <b>(352) 377 - 7158</b>	

##### Application Processing Information (DEP Use)

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

**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: \_\_\_\_\_

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

Current construction permit number: **1190017-004-AC**

Operation permit number to be revised: **1190017-001-AO**

- 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: \_\_\_\_\_

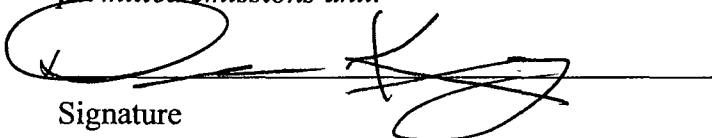
Reason for revision: \_\_\_\_\_

**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: <b>Dennis C. Kenney, P.G. – Vice President</b>
2. Owner/Authorized Representative Mailing Address: Organization/Firm: <b>Florida Crushed Stone Company</b> Street Address: <b>1616 S. 14<sup>th</sup> Street/ P.O. Box 490300</b> City: <b>Leesburg</b> State: <b>FL</b> Zip Code: <b>34749-0300</b>
3. Owner/Authorized Representative Telephone Numbers: Telephone: <b>( 352 ) 787 - 0608</b> Fax: <b>( 352 ) 787 - 2143</b>
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 _____ Date <u>6/16/99</u>

\* Attach letter of authorization if not currently on file.

**Professional Engineer Certification**

1. Professional Engineer Name: <b>Steven C. Cullen, P.E.</b> Registration Number: <b>45188</b>
2. Professional Engineer Mailing Address: Organization/Firm: <b>Koogler &amp; Associates</b> Street Address: <b>4014 NW 13<sup>th</sup> Street</b> City: <b>Gainesville</b> State: <b>FL</b> Zip Code: <b>32609</b>
3. Professional Engineer Telephone Numbers: Telephone: <b>( 352 ) 377-5822</b> Fax: <b>( 352 ) 377-7158</b>

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  
(seal)

Date 6/14/99

\* Attach any exception to certification statement.

**Scope of Application**

<b>Emissions Unit ID</b>	<b>Description of Emissions Unit</b>	<b>Permit Type</b>	<b>Processing Fee</b>
001	Limestone Processing Plant	AOMM	\$250.00

**Application Processing Fee**

Check one:  Attached - Amount: \$ 250.00     Not Applicable

**Construction/Modification Information**

1. Description of Proposed Project or Alterations:

**Florida Crushed Stone Company is requesting an operation permit minor modification to incorporate the equipment from permit number 1190017-004-AC for the St. Catherine Mine. The project was completed without deviations from the construction permit application.**

2. Projected or Actual Date of Commencement of Construction:

3. Projected Date of Completion of Construction:

**Application Comment**

## II. FACILITY INFORMATION

### A. GENERAL FACILITY INFORMATION

#### Facility Location and Type

1. Facility UTM Coordinates: Zone: <b>17</b> East (km): <b>385.6</b> North (km): <b>3164.4</b>			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): <b>28°36'11"</b> Longitude (DD/MM/SS): <b>82°10'12"</b>			
3. Governmental Facility Code: <b>0</b>	4. Facility Status Code: <b>A</b>	5. Facility Major Group SIC Code: <b>14</b>	6. Facility SIC(s): <b>1422</b>
7. Facility Comment (limit to 500 characters):  			

#### Facility Contact

1. Name and Title of Facility Contact: <b>Dennis C. Kenney, P.G. – Vice President</b>		
2. Facility Contact Mailing Address: Organization/Firm: <b>Florida Crushed Stone Company</b> Street Address: <b>1616 S. 14<sup>th</sup> Street/ P.O. Box 490300</b> City: <b>Leesburg</b> State: <b>FL</b> Zip Code: <b>34749-0300</b>		
3. Facility Contact Telephone Numbers: Telephone: <b>(352) 787-0608</b> Fax: <b>(352) 787-2143</b>		

**Facility Regulatory Classifications**

**Check all that apply:**

1. <input type="checkbox"/> Small Business Stationary Source?	<input checked="" type="checkbox"/> Unknown
2. <input type="checkbox"/> Synthetic Non-Title V Source?	
3. <input 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):	
<b>Certain pieces of equipment at this location are affected facilities per NSPS OOO, Standards of Performance for Nonmetallic Mineral Processing Plants.</b>	

**Rule Applicability Analysis**

**The facility is subject to certain provisions of these rules:**

**Rule 62-4, FAC**  
**Rule 62-204, FAC**  
**Rule 62-210, FAC**  
**Rule 62-296, FAC**  
**Rule 62-297, FAC**



**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	B				

**C. FACILITY SUPPLEMENTAL INFORMATION**

**Supplemental Requirements**

1. Area Map Showing Facility Location: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested <b>Department has on file</b>
2. Facility Plot Plan: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested <b>Department has on file</b>
3. Process Flow Diagram(s): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested <b>Department has on file</b>
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested <b>Department has on file</b>
5. Supplemental Information for Construction Permit Application: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
6. Supplemental Requirements Comment: N/A

**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><b>Limestone Processing Plant</b></p>		
<p>3. Emissions Unit Identification Number: <span style="float: right;"><input type="checkbox"/> No-ID</span></p> <p>ID: <b>001</b> <span style="float: right;"><input type="checkbox"/> ID Unknown</span></p>		
<p>4. Emissions Unit Status</p> <p>Code: <b>A</b></p>	<p>5. Initial Startup Date:</p> <p><b>N/A</b></p>	<p>6. Emissions Unit Major Group SIC Code: <b>14</b></p>
<p>6. Emissions Unit Comment: (Limit to 500 Characters)</p>		

**Emissions Unit Information Section 1 of 1**

**Emissions Unit Control Equipment**

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

**Emissions Unit Details**

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

**Emissions Unit Operating Capacity and Schedule**

1. Maximum Heat Input Rate: N/A                                  mmBtu/hr
2. Maximum Incineration Rate: N/A                                  lb/hr                  tons/day
3. Maximum Process or Throughput Rate: <b>500 Tons/hour and 2,000,000 Tons Processed/Year</b>
4. Maximum Production Rate: N/A
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): N/A

**Emissions Unit Information Section 1 of 1**

**B. EMISSION POINT (STACK/VENT) INFORMATION**

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram? #4 and #13		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):			
<b>I.D.#</b>	<b>Description</b>	<b>Manufacturer</b>	<b>Dimensions</b>
4	Belt Conveyor #4	Company Fabrication	30" wide
13	Top-off Hopper #13	Company Fabrication	100 tons capacity
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: N/A			
5. Discharge Type Code: F	6. Stack Height: N/A feet	7. Exit Diameter: N/A feet	
8. Exit Temperature: Ambient, 77°F	9. Actual Volumetric Flow Rate: N/A acfm	10. Water Vapor: N/A %	
11. Maximum Dry Standard Flow Rate: N/A dscfm		12. Nonstack Emission Point Height: 20 feet	
13. Emission Point UTM Coordinates:			
Zone:	East (km):	North (km):	
14. Emission Point Comment (limit to 200 characters):			
<b>This is the new equipment from the air construction permit.</b>			

**Emissions Unit Information Section 1 of 1**

**C. SEGMENT (PROCESS/FUEL) INFORMATION**

**Segment Description and Rate: Segment 1 of 1**

1. Segment Description (Process/Fuel Type) (limit to 500 characters): <b>Mineral Products: Stone Quarrying/Processing: General</b>		
2. Source Classification Code (SCC): <b>3-05-020-99</b>		3. SCC Units: <b>Tons Processed</b>
4. Maximum Hourly Rate: <b>500 Tons Processed</b>	5. Maximum Annual Rate: <b>2,000,000 Tons Processed</b>	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: <b>N/A</b>	8. Maximum % Ash: <b>N/A</b>	9. Million Btu per SCC Unit: <b>N/A</b>
10. Segment Comment (limit to 200 characters): <b>N/A</b>		

**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: PM		2. Pollutant Regulatory Code: NS	
3. Primary Control Device Code:	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:	
6. Potential Emissions: lb/hour                                  tons/year		7. Synthetically Limited? [   ]	
8. Emission Factor: Reference:		9. Emissions Method Code:	
10. Calculation of Emissions (limit to 600 characters):			
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):	





Emissions Unit Information Section 1 of 1

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

**Visible Emissions Limitation:** Visible Emissions Limitation \_\_\_\_\_ of \_\_\_\_\_

1. Visible Emissions Subtype: <b>VEF</b>	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule(40CFR60.672(b)) <input type="checkbox"/> Other
3. Requested Allowable Opacity: Normal Conditions: <b>10%</b> Exceptional Conditions: <b>N/A</b> % Maximum Period of Excess Opacity Allowed: <b>N/A</b> min/hour	
4. Method of Compliance: <b>Method 9, as modified at 40CFR60.675(c)</b>	
6. Visible Emissions Comment (limit to 200 characters):  <b>This opacity limitation applies to belt conveyor transfer points (#4 and #13).</b>	

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

**Continuous Monitoring System:** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement: Other	<input type="checkbox"/> Rule <input type="checkbox"/>
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

**G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION**

**Supplemental Requirements**

1. Process Flow Diagram <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested <b>Department has on file</b>
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 type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
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 type="checkbox"/> Attached, Document ID: _____ <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: <b>Visible Emissions Observation Report-will be sent under separate cover.</b>



KOGLER & ASSOCIATES  
ENVIRONMENTAL SERVICES

4014 NW THIRTEENTH STREET  
GAINESVILLE, FLORIDA 32609  
352/377-5822 ■ FAX/377-7158

KA307-99-14  
June 14, 1999

**RECEIVED**  
JUN 18 1999

Department of Environmental Protection  
SOUTHWEST DISTRICT  
BY \_\_\_\_\_

Gerald Kissel, P.E.  
Southwest District – Air Program  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, FL 33619

SUBJECT: Florida Crushed Stone Company  
Air Operation Permit 1190017-001-AO  
Minor Modification to Incorporate Permit 1190017-004-AC  
St. Catherine Mine, Sumter County

Dear Mr. Kissel:

Enclosed please find four (4) copies of the referenced application. A check for \$250 is enclosed as the applicable processing fee.

Please call me if you have any questions at (352) 377-5822.

Sincerely,

Koogler & Associates

KEN CONWELL, Project Engineer

KFC: kfc  
Encl.  
c: Mitch McDowell