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: **Consolidated Minerals, Inc.**	
2. Site Name: **Center Hill Hi-Cal Plant**	
3. Facility Identification Number: **1190018** [ ] Unknown	
4. Facility Location: Street Address or Other Locator: **State Road 48 West** City: **Center Hill** County: **Sumter** Zip Code: **33514**	
5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [X] Yes [ ] No

Application Contact

1. Name and Title of Application Contact: **Veronica N. Sgro, E.I.**
2. Application Contact Mailing Address: Organization/Firm: **Koogler & Associates, Inc.** Street Address: **4014 NW 13th Street** City: **Gainesville** State: **FL** Zip Code: **32609**
3. Application Contact Telephone Numbers: Telephone: **(352) 377-5822** Fax: **(352) 377-7158**

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	01 - 05 - 2006
2. Permit Number:	1190018 - 012 - AC

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5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [X] Yes [ ] No

Application Contact

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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:_____

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)

[X] 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: **Kyle Garrett, Vice President**

2. Owner/Authorized Representative Mailing Address:
   Organization/Firm: **Consolidated Minerals, Inc.**
   Street Address: **1616 S. 14th Street**
   City: **Leesburg** State: **FL** Zip Code: **34748**

3. Owner/Authorized Representative Telephone Numbers:
   Telephone: **(352) 365-6522** Fax: **(352) 455-5553**

4. Owner/Authorized Representative Statement:

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.*

Signature Date: 1-4-05

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: **Steven C. Cullen, P.E.**
   Registration Number: **45188**

2. Professional Engineer Mailing Address:
   Organization/Firm: **Koogler & Associates, Inc.**
   Street Address: **4014 NW 13th Street**
   City: **Gainesville** State: **FL** Zip Code: **32609**

3. Professional Engineer Telephone Numbers:
   Telephone: **(352) 377-5822** Fax: **(352) 377-7158**

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 [X], 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.

STEVEN ... LICENSE ... NO. 43... STATE OF FLORIDA ... PROFESSIONAL ENGINEER

Signature

1/4/2006
Date

(seal)

* Attach any exception to certification statement.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
002	Dryer (non-NSPS)	AC1C	$4500.00
003	Screening/Material Handling (NSPS)	AC1E	$1000.00
006 No. I.D.	Truck Loading Activities (NSPS)		
004	Milling Operations (non-NSPS)	AC1E	$1000.00
005	Storage Silos (SS-1 through SS-4) (NSPS)	AC1E	$250.00
008 No I.D.	Fugitive Emissions—Enclosed Building (NSPS)	AC1F	$250.00
007 No I.D.	Fugitive Emissions—Outside Building (NSPS)	AC1F	$250.00

Application Processing Fee

Check one: [ ] Attached - Amount: $0.00 [X] Not Applicable

Appropriate processing fee was previously submitted.

Construction/Modification Information

1. Description of Proposed Project or Alterations:

Project is a proposed limestone drying and processing plant in Sumter County. Limestone is dried and processed to produce crushed stone meeting various specifications. Processing operations include hauling, drying, crushing, screening, conveying, stockpiling, and product handling. A revised process flow diagram and description are attached to this application.

This air construction permit application addresses the following issues:

- **Dryer Potential Emissions: Existing permitted dryer potential emissions are to be calculated using statistical analysis of previous stack test data.**
- **Fugitive Emissions—Enclosed Building: Request that the Department includes emission unit entitled "Fugitive Emissions--Enclosed Building" in the Air Permit.**
- **Fugitive Emissions—Outside Building: Request that the Department includes emission unit entitled "Fugitive Emissions—Outside Building" in Air Permit.**
- **Truck Loading Operations: Request that the Department includes emission unit entitled "Truck Loading Operations" in Air Permit.**
- **Maximum Throughput: Increase the maximum throughput from 30 tons /hr wet limestone (monthly average basis) and 262,800 tons/12-month consecutive period to 35 tons/hr wet limestone (monthly average basis) and 306,600 tons/12 consecutive month period.**

2. Projected or Actual Date of Commencement of Construction: **N/A**

3. Projected Date of Completion of Construction: **N/A**

Application Comment

Dryer: The greatest potential emission for the Dryer is 98.25 tpy of SO_2. Since the potential emissions are greater than 50 tpy but less than 100 tpy, the processing fee for Dust Collector 1, which controls the dryer is $4,500.00 per 62-4.050(4)(a)(2)(b), F.A.C.

Screening/Material Handling and Truck Loading Activities: It is requested that the Department views these two emission units as a similar activity, as it is difficult to separate the air flow going into the shared control device. The greatest potential emission from Screening/Material Handling and Truck loading activities is 8.29 tpy of PM. Since the potential emissions are greater than 5 tpy but less than 25 tpy, the processing fee for this emissions unit is $1000.00 per 62-4.050(4)(1)(2)(d), F.A.C.

Milling Operations: The greatest potential emission from Milling Operations is 5.20 tpy of PM. Since the potential emissions are greater than 5 tpy but less than 25 tpy, the processing fee for these similar emissions units is $1000.00 per 62-4.050(4)(1)(2)(d), F.A.C.

Storage Silos: The greatest potential emission from the Storage Silos is 3.89 tpy of PM. Since the potential emissions are less than 5 tpy, the processing fee for this emissions unit is $250.00 per 62-4.050(4)(1)(2)(e), F.A.C.

Fugitive Emissions—Enclosed Building: The expected greatest potential emission from the fugitive emissions from the enclosed building is 2.67 tpy of PM. Since the potential emissions are less than 5 tpy, the processing fee for this emissions unit is $250.00 per 62-4.050(4)(1)(2)(e), F.A.C.

Fugitive Emissions—Outside Building: The expected greatest potential emission from fugitive emissions from operational activities outside of the building is 2.66 tpy of PM. Since the potential emissions are less than 5 tpy, the processing fee for this emissions unit is $250.00 per 62-4.050(4)(1)(2)(e), F.A.C.

Exemptions: This application requests that the fuel tank for No. 4 fuel is exempt from permitting action, as the emissions from the tank are assumed to be minimal.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone: **17** East (km): **401.5** North (km): **3169.5**			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): **28/39/02** Longitude (DD/MM/SS): **82/00/28**			
3. Governmental Facility Code: **0**	4. Facility Status Code: **A**	5. Facility Major Group SIC Code: **14**	6. Facility SIC(s): **1422**
7. Facility Comment (limit to 500 characters): **None.**			

Facility Contact

1. Name and Title of Facility Contact: **Walter Merritt, Plant Manager**
2. Facility Contact Mailing Address: Organization/Firm: **Consolidated Minerals, Inc.** Street Address: **530 West Kings Highway** City: **Center Hill** State: **Florida** Zip Code: **33514**
3. Facility Contact Telephone Numbers: Telephone: **(352) 569-0328** Fax: **(352) 568-1515**

Facility Regulatory Classifications

Check all that apply:

1. [ ] Small Business Stationary Source?	[X] Unknown
2. [X] Synthetic Non-Title V Source?	
3. [X] Synthetic Minor Source of Pollutants Other than HAPs?	
4. [ ] Synthetic Minor Source of HAPs?	
5. [X] One or More Emissions Units Subject to NSPS?	
6. [ ] One or More Emission Units Subject to NESHAP Recordkeeping or Reporting?	
7. Facility Regulatory Classifications Comment (limit to 200 characters): **40 CFR 60, Subpart OOO—Standards of Performance for Nonmetallic Mineral Processing Plants.** **Please refer to attached process flow diagram and description in the attached supporting documentation (Attachment 1) for the list of equipment subject to 40 CFR 60, Subpart OOO.**	

Rule Applicability Analysis

- **40 CFR 60, Subpart OOO—Standards of Performance for Nonmetallic Mineral Processing Plants.**
- **62-4, F.A.C.**
- **62-210, F.A.C.**
- **62-296, F.A.C.**
- **62-297, F.A.C.**

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap lb/hour	tons/year	4. Basis for Emissions Cap	5. Pollutant Comment
PM	**SM**	**N/A**	**N/A**	**N/A**	**N/A**
SO_2	**SM**	**N/A**	**N/A**	**N/A**	**N/A**

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location:
   [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
Department has on file.

2. Facility Plot Plan:
   [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
Department has on file.

3. Process Flow Diagram(s):
[X] Attached, Document ID: **Supporting Documentation** [] Not Applicable
[] Waiver Requested

4. Precautions to Prevent Emissions of Unconfined Particulate Matter:
[ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested

5. Supplemental Information for Construction Permit Application:
   [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable

6. Supplemental Requirements Comment:
Supporting documentation includes process flow diagram with process descriptions.

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)

[X] 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, 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.

[ ] 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):
Dryer

3. Emissions Unit Identification Number:
ID: **002**
[ ] No ID
[ ] ID Unknown

4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **~1998**	6. Emissions Unit Major Group SIC Code: **14**

7. Emissions Unit Comment: (Limit to 500 Characters)
Dust Collector No. 1 (DC-1) controls particulate matter emissions from dryer.

Emissions Unit Information Section 1 of 7
[E.U. 002: Dryer]

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): **Fabric Filter—High Temperature (T > 250° F)**
2. Control Device or Method Code(s): **016**

Emissions Unit Details

1. Package Unit: **N/A** Manufacturer: **Sly, Inc.**	Model Number: **STJ-2817-12**	
2. Generator Nameplate Rating:	**N/A** MW	
3. Incinerator Information: **N/A** Dwell Temperature: Dwell Time: Incinerator Afterburner Temperature:		**N/A** °F **N/A** seconds **N/A**°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	**85.0** mmBtu/hr	
2. Maximum Incineration Rate:	**N/A** lb/hr	**N/A** tons/day
3. Maximum Process or Throughput Rate: **35 TPH Wet Limestone**		
4. Maximum Production Rate: **N/A**		
5. Requested Maximum Operating Schedule: **24** hours/day **52** weeks/year		**7** days/week **8760** hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

- **Maximum Heat Input Rate:**

582.2 gal/hr of #4 fuel oil @ 146,000 BTU/gal = 85.0 mmBtu/hr
2,620,000 gal/yr of #4 fuel oil @ 146,000 BTU/gal = 382,520 MMBtu/yr

- **Maximum Process Rate:**

Maximum throughput of limestone drying and processing facility is 35 tph (monthly average basis) and 306,600 tons per 12 consecutive month period.

Emissions Unit Information Section 1 of 7
[E.U. 002: Dryer]

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **ST-1**	2. Emission Point Type Code: **1**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **Stack from Dust Collector 1**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **N/A**		
5. Discharge Type Code: **V**	6. Stack Height: **75** feet	7. Exit Diameter: **3.8** feet
8. Exit Temperature: **375** °F	9. Actual Volumetric Flow Rate: **35,000** acfm	10. Water Vapor: **23** %
11. Maximum Dry Standard Flow Rate: **17,041** dscfm	12. Nonstack Emission Point Height: **N/A** feet	
13. Emission Point UTM Coordinates: **Not Determined** Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **Maximum Dry Standard Flow Rate:** **35,000 acfm x (1-0.23) x [(68+460)/(375 + 460)] = 17,041dscfm**		

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 4

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ Mineral Products/ Stone Quarrying—Processing/ General** **Dust Collector 1 (DC-1) collects particulate emissions from the dryer.**		
2. Source Classification Code (SCC): **3-05-020-99**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **35 (Wet Basis)**	5. Maximum Annual Rate: **306,600 (Wet Basis)**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **N/A**
10. Segment Comment (limit to 200 characters): **None.**		

Segment Description and Rate: Segment 2 of 4

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ In Process Fuel Use/ Residual Oil/ Dryer**		
2. Source Classification Code (SCC): **3-90-004-02**	3. SCC Units: **Thousand Gallons Burned**	
4. Maximum Hourly Rate: **0.582**	5. Maximum Annual Rate: **2,620**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **0.50**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **146**
10. Segment Comment (limit to 200 characters): **Annual fuel usage rate is limited to escape Title V.**		

Emissions Unit Information Section 1 of 7
[E.U. 002: Dryer]

Segment Description and Rate: Segment 3 of 4

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/In-Process Fuel Use/ Liquified Petroleum Gas (Propane)/ General**		
2. Source Classification Code (SCC): **3-90-010-89**	3. SCC Units: **Thousand Gallons Burned**	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **90.5**
10. Segment Comment (limit to 200 characters): **Per Specific Condition 7 of Permit No. 1190018-008-AO:** **"Liquefied Petroleum Gas (Propane) shall be used as an ignition fuel for start up of the dryer. [permit application received 5/30/00] Permitting note: For each ignition attempt, propane is ignited at a rate of 250,000 BTU/hr for a maximum of 20 seconds.**		

Segment Description and Rate: Segment 4 of 4

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ In-Process Fuel Use/ Natural Gas/ General**		
2. Source Classification Code (SCC): **3-90-006-89**	3. SCC Units: **Million Cubic Feet**	
4. Maximum Hourly Rate: **0.081**	5. Maximum Annual Rate: **709**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **1050**
10. Segment Comment (limit to 200 characters): **Hourly Maximum:** **(85 mmBtu/hr) x (1 mmcf/1050 mmBtu) = 0.081 mmcf/hr** **Annual Maximum:** **(0.081 mmBtu/hr) x (8760 hr/yr) = 709 mmcf/yr**		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**	2. Pollutant Regulatory Code: **EL**	
3. Primary Control Device Code: **016**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/D**
6. Potential Emissions: **5.84** lb/hour **25.59** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.04 gr/dscf** Reference: **Test Data**		9. Emissions Method Code: **1**

10. Calculation of Emissions (limit to 600 characters):

(0.04 gr/dscf) x (17,041 dscf/min) x (60 min/hr) x (1 lb PM/7000 gr) = 5.84 lb PM/hr
(5.84 lb PM/hr) x (8760 hr/yr) x (1 ton/2000 lbs) = 25.59 tons PM/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor is based on test results, 98% confidence level, and a safety factor of 2. In addition, this emission factor is the accepted emission factor in NSPS Subpart I; not applicable, but involving a similar process.**

Emissions Unit Information Section 1 of 7
[E.U. 002: Dryer]
Pollutant Detail Information Page 1 of 5

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **ESCTV**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.04 gr/dscf**	4. Equivalent Allowable Emissions: **5.84** lb/hour **25.59** tons/year
5. Method of Compliance (limit to 60 characters): **EPA Method 5**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **None.**	

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **SO_2**	2. Pollutant Regulatory Code: **EL**	
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/A**
6. Potential Emissions: **43.65** lb/hour **98.25** tons/year		7. Synthetically Limited? **[X]**
8. Emission Factor: **150S lb SO_2/1000 gallons** Reference: **AP-42, Table 1.3-1**		9. Emissions Method Code: **4**
10. Calculation of Emissions (limit to 600 characters): **[150(0.5) lb SO_2/TGB] x (0.582 TGB/hr) = 43.65 lbs SO_2/hr** **[150(0.5) lb SO_2/TGB] x (2,620 TGB/yr) x (1 ton/2000 lbs) = 98.25 ton SO_2/yr**		
11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor based on No. 4 oil-fired boilers < 100 mmbtu/hr.**		

Allowable Emissions Allowable Emissions **1** of **1**

1. Basis for Allowable Emissions Code: **ESCTV**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.5% Sulfur in fuel oil**	4. Equivalent Allowable Emissions: **43.65** lb/hour **98.25** tons/year
5. Method of Compliance (limit to 60 characters): **Fuel oil analysis by vendor**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **N/A**	

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **NO_x**		2. Pollutant Regulatory Code: **NS**
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/A**
6. Potential Emissions: **11.64** lb/hour	**26.20** tons/year	7. Synthetically Limited? [ ]
8. Emission Factor: **20 lbs NO_x/1000 gallons** Reference: **AP-42, Table 1.3-1**		9. Emissions Method Code: **4**

10. Calculation of Emissions (limit to 600 characters):

(20 lbs NO_x/TGB) x (0.582 TGB/hr) = 11.64 lbs NO_x/hr
(20 lbs NO_x/TGB) x (2,620 TGB/yr) x (1 ton/2000 lbs) = 26.20 tons NO_x/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor based on No. 4 oil-fired boilers < 100 mmbtu/hr.**

Allowable Emissions Allowable Emissions **N/A** of **N/A**

1. Basis for Allowable Emissions Code: **N/A**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **N/A**	4. Equivalent Allowable Emissions: **N/A** lb/hour **N/A** tons/year

5. Method of Compliance (limit to 60 characters): **N/A**

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **N/A**

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **CO**		2. Pollutant Regulatory Code: **NS**
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/A**
6. Potential Emissions: **2.91** lb/hour 6.8 - NC **6.55** tons/year 29.78 - NC		7. Synthetically Limited? [ ]
8. Emission Factor: **5 lbs CO/1000 gallons** Reference: **AP-42, Table 1.3-1**		9. Emissions Method Code: **4**
10. Calculation of Emissions (limit to 600 characters): **(5 lbs CO/TGB) x (0.582 TGB/hr) = 2.91 lbs CO/hr** **(5 lbs CO/TGB) x (2,620 TGB/yr) x (1 ton/2000 lbs) = 6.55 tons CO/yr**		
11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor based on No. 4 oil-fired boilers < 100 mmbtu/hr.**		

Allowable Emissions Allowable Emissions **N/A** of **N/A**

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

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **VOC**		2. Pollutant Regulatory Code: **NS**
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/A**
6. Potential Emissions: **0.12** lb/hour 0.4-NG 1.45 NG **0.26** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.2 lbs NMTOC/1000 gallons** Reference: **AP-42, Table 1.3-3**		9. Emissions Method Code: **4**

10. Calculation of Emissions (limit to 600 characters):

(0.2 lbs NMTOC/TGB) x (0.582 TGB/hr) = 0.12 lbs NMTOC/hr
(0.2 lbs NMTOC/TGB) x (2,620 TGB/hr) x (1 ton/2000 lbs) = 0.26 tons NMTOC/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor for NMTOC was used in calculations instead of a VOC emission factor. Emission factor based on No. 4 oil-fired boilers < 100 mmbtu/hr.**

Allowable Emissions Allowable Emissions **N/A** of **N/A**

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

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: **VE20**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **20%** Exceptional Conditions: **20%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 62-296.320(b)1, F.A.C., this emissions limit applies to Dust Collector 1, which collects PM emissions from the dryer.**	

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

Continuous Monitoring System: Continuous Monitor N/A of N/A

1. Parameter Code: **N/A**	2. Pollutant(s): **N/A**
3. CMS Requirement: **N/A**	[ ] Rule [ ] Other
4. Monitor Information: **N/A** Manufacturer: **N/A** Model Number: **N/A**	Serial Number: **N/A**
5. Installation Date: **N/A**	6. Performance Specification Test Date: **N/A**
7. Continuous Monitor Comment (limit to 200 characters): **N/A**	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] 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 [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: **N/A**

Emissions Unit Information Section 2 of 7
[E.U. 003: Screening/Material Handling]

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)

[ ] 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).

[X] 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.

[ ] 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):
Screening and Milling

3. Emissions Unit Identification Number:
ID: **003**
[ ] No ID
[ ] ID Unknown

4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **~1998**	6. Emissions Unit Major Group SIC Code: **14**

7. Emissions Unit Comment: (Limit to 500 Characters)
Dust Collector No. 2 (DC-2) controls particulate matter emissions from screening and belt conveyor to milling operations.

Emissions Unit Information Section 2 of 7
[E.U. 003: Screening/Material Handling]

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method):
Fabric Filter—Medium Temperature (180°F < T < 250°F)

2. Control Device or Method Code(s): **017**

Emissions Unit Details

1. Package Unit: **N/A**
Manufacturer: **Sly, Inc** Model Number: **STJ-1315-10**

2. Generator Nameplate Rating: **N/A** MW

3. Incinerator Information: **N/A**
Dwell Temperature: **N/A** °F
Dwell Time: **N/A** seconds
Incinerator Afterburner Temperature: **N/A**°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: **N/A** mmBtu/hr

2. Maximum Incineration Rate: **N/A** lb/hr **N/A** tons/day

3. Maximum Process or Throughput Rate: **35 TPH Wet Limestone**

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):

- **Maximum Process Rate:**

Maximum throughput of limestone drying and processing facility is 35 tph (monthly average basis) and 306,600 tons per 12 consecutive month period.

Emissions Unit Information Section 2 of 7
[E.U. 003: Screening/Material Handling]

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **FA-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): **Fan outlet from dust collector 2 (DC-2)**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **N/A**		
5. Discharge Type Code: **V**	6. Stack Height: **14** feet	7. Exit Diameter: **1.5** feet
8. Exit Temperature: **200** °F	9. Actual Volumetric Flow Rate: **12,800** acfm	10. Water Vapor: **~2** %
11. Maximum Dry Standard Flow Rate: **10,035** dscfm	12. Nonstack Emission Point Height: **N/A** feet	
13. Emission Point UTM Coordinates: **Not Determined** Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **Maximum Dry Standard Flow Rate:** **12,800 acfm x (1-0.02) x [(68+460)/(200 + 460)] = 10,035 dscfm**		

Emissions Unit Information Section 2 of 7
[E.U. 003: Screening/Material Handling]

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ Mineral Products/ Stone Quarrying—Processing/ General**		
2. Source Classification Code (SCC): **3-05-020-99**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **35 (Wet Basis)**	5. Maximum Annual Rate: **306,600 (Wet Basis)**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **N/A**
10. Segment Comment (limit to 200 characters): **Dust Collector 2 (DC-2) vents particulate emissions from the screening and milling operations.**		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**	2. Pollutant Regulatory Code: **EL**	
3. Primary Control Device Code: **017**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/D**
6. Potential Emissions: **1.89** lb/hour **8.29** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.022 gr/dscf** Reference: **40 CFR 60.672(a)**		9. Emissions Method Code: **0**

10. Calculation of Emissions (limit to 600 characters):

(0.022 gr/dscf) x (10,035 dscf/min) x (60 min/hr) x (1 lb PM/7000 gr) = 1.89 lb PM/hr
(1.89 lb PM/hr) x (8760 hr/yr) x (1 ton/2000 lbs) = 8.29 tons PM/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters): **Dust Collector 2 (DC-2) collects emissions from the screening and belt conveyor to milling processes, which consists of various equipment that is subject to 40 CFR 60, Subpart OOO.**

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **Rule**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.022 gr/dscf**	4. Equivalent Allowable Emissions: **1.89** lb/hour **8.29** tons/year

5. Method of Compliance (limit to 60 characters): **EPA Method 9**

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):
Per 40 CFR 60.672(a)(1).

Emissions Unit Information Section 2 of 7
[E.U. 003: Screening/Material Handling]

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: **VE07**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **07%** Exceptional Conditions: **07%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 40 CFR 60.672(a)(2), this emissions limit applies to Dust Collector 2 (DC-2), which collects PM from various pieces of equipment and transfer points that are subject to 40 CFR 60, Subpart OOO.**	

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: **VE20**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **20%** Exceptional Conditions: **20%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 62-296.320(b)1, F.A.C., this emissions limit applies to all other equipment in the screening operations not subject to 40 CFR 60, Subpart OOO.**	

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

Continuous Monitoring System: Continuous Monitor **N/A** of **N/A**

1. Parameter Code: **N/A**	2. Pollutant(s): **N/A**
3. CMS Requirement: **N/A**	[ ] Rule [ ] Other
4. Monitor Information: **N/A** Manufacturer: **N/A** Model Number: **N/A**	Serial Number: **N/A**
5. Installation Date: **N/A**	6. Performance Specification Test Date: **N/A**
7. Continuous Monitor Comment (limit to 200 characters): **N/A**	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] 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 [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. 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

1. Type of Emissions Unit Addressed in This Section: (Check one)

[X] 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, 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.

[ ] 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):
Milling Operations

3. Emissions Unit Identification Number:
ID: **004**
[ ] No ID
[ ] ID Unknown

4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **~1998**	6. Emissions Unit Major Group SIC Code: **14**

7. Emissions Unit Comment: (Limit to 500 Characters)
Dust Collector No. 3 (DC-3) controls particulate matter emissions from milling operations.

Emissions Unit Information Section 3 of 7
[E.U. 004: Milling Operations]
Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method):
Fabric Filter—Medium Temperature (180°F < T < 250° F)

2. Control Device or Method Code(s): **017**

Emissions Unit Details

1. Package Unit: **N/A**
Manufacturer: **Sly, Inc.** Model Number: **STJ-78-10**

2. Generator Nameplate Rating: **N/A** MW

3. Incinerator Information: **N/A**
Dwell Temperature: **N/A** °F
Dwell Time: **N/A** seconds
Incinerator Afterburner Temperature: **N/A**°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: **N/A** mmBtu/hr

2. Maximum Incineration Rate: **N/A** lb/hr **N/A** tons/day

3. Maximum Process or Throughput Rate: **35 TPH Wet Limestone**

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):

- **Maximum Process Rate:**

Maximum throughput of limestone drying and processing facility is 35 tph (monthly average basis) and 306,600 tons per 12 consecutive month period.

Emissions Unit Information Section 3 of 7
[E.U. 004: Milling Operations]

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **FA-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):

Fan vent from Dust Collector 3

4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **N/A**

5. Discharge Type Code: **H**	6. Stack Height: **N/A** feet	7. Exit Diameter: **N/A** feet
8. Exit Temperature: **200** °F	9. Actual Volumetric Flow Rate: **4,000** acfm	10. Water Vapor: **~2** %
11. Maximum Dry Standard Flow Rate: **3,136** dscfm	12. Nonstack Emission Point Height: **~33** feet	

13. Emission Point UTM Coordinates: **Not Determined**

Zone: East (km): North (km):

14. Emission Point Comment (limit to 200 characters):

Maximum Dry Standard Flow Rate:
4,000 acfm x (1-0.02) x [(68+460)/(200 + 460)] = 3,136 dscfm

When dust collector 3 (DC-3) is off line, part of emissions from milling operations can also be collected by dust collector 2 (DC-2).

Emissions Unit Information Section 3 of 7
[E.U. 004: Milling Operations]

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ Mineral Products/ Stone Quarrying—Processing/ General**		
2. Source Classification Code (SCC): **3-05-020-99**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **35 (Wet Basis)**	5. Maximum Annual Rate: **306,600 (Wet Basis)**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **N/A**
10. Segment Comment (limit to 200 characters): **Dust Collector 3 (DC-3) vents particulate emissions from milling operations.**		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**	2. Pollutant Regulatory Code: **EL**	
3. Primary Control Device Code: **016**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/D**
6. Potential Emissions: **1.19** lb/hour **5.20** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.0404 lb/ton** Reference: **AP-42 Table 11.19.2-4**		9. Emissions Method Code: **3**
10. Calculation of Emissions (limit to 600 characters): **(0.0404 lb PM/ton) x (0.84 x 35 wet tons/hour) = 1.19 lbs PM/hr** **(1.19 lbs PM/hr) x (8760 hrs/yr) x (1 ton/2000 lbs) = 5.20 tons PM/yr**		
11. Pollutant Potential Emissions Comment (limit to 200 characters): **Dust Collector 3 (DC-3) collects emissions from the milling process. Raymond mill is not subject to NSPS OOO since it was constructed/reconstructed/modified prior to 08/31/1983.**		

Emissions Unit Information Section 3 of 7
[E.U. 004: Milling Operations]
Pollutant Detail Information Page 1 of 1

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: **Rule**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **35 wet tons per hour**	4. Equivalent Allowable Emissions: **30.6** lb/hour **133.9** tons/year
5. Method of Compliance (limit to 60 characters): **EPA Method 5**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **Process Weight Rate using the formula $E = 17.31P^{0.16}$, where E = emissions in lb/hr and P = process weight rate in tph.** **$E = 17.31(35)^{0.16} = 30.6$ lbs/hr = 133.9 tons/yr**	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.0404 lb PM/ton**	4. Equivalent Allowable Emissions: **1.19** lb/hour **5.20** tons/year
5. Method of Compliance (limit to 60 characters): **EPA Method 5**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **Raymond mill is not subject to NSPS OOO since it was constructed/reconstructed/modified prior to 08/31/1983.**	

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: **VE20**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **20%** Exceptional Conditions: **20%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 62-296.320(b)1, F.A.C., this emissions limit applies to Dust Collector 3, which collects PM emissions from the Raymond Mill. The Raymond Mill is *NOT* subject to NSPS, as it was constructed/reconstructed/modified prior to 8/31/1983.**	

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

Continuous Monitoring System: Continuous Monitor N/A of N/A

1. Parameter Code: **N/A**	2. Pollutant(s): **N/A**
3. CMS Requirement: **N/A**	[ ] Rule [ ] Other
4. Monitor Information: **N/A** Manufacturer: **N/A** Model Number: **N/A** Serial Number: **N/A**	
5. Installation Date: **N/A**	6. Performance Specification Test Date: **N/A**
7. Continuous Monitor Comment (limit to 200 characters): **N/A**	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] 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 [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. 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

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] 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).

[X] 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.

[ ] 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):
Storage Silos

3. Emissions Unit Identification Number:
ID: **005**
[ ] No ID
[ ] ID Unknown

4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **~1998**	6. Emissions Unit Major Group SIC Code: **14**

7. Emissions Unit Comment: (Limit to 500 Characters)
Dust Collector No. 4 (DC-4) controls particulate matter emissions from Silo SS-3, as well as indirectly controlling particulate matter emissions from Silos SS-1, SS-2, and SS-4.

Silos 1, 2, and 3 (SS-1, SS-2, and SS-3, respectively) were constructed/reconstructed/modified prior to August 31, 1983 Silo SS-4 was constructed in July 2005.

The silos are subject to NSPS Subpart OOO.

Emissions Unit Information Section 4 of 7
[E.U. 005: Storage Silos]
Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): **Fabric Filter—Medium Temperature (180°F < T < 250° F)**
2. Control Device or Method Code(s): **017**

Emissions Unit Details

1. Package Unit: **N/A** Manufacturer: **Sly, Inc.**	Model Number: **STJ-88-10**	
2. Generator Nameplate Rating:	**N/A** MW	
3. Incinerator Information: **N/A** Dwell Temperature: Dwell Time: Incinerator Afterburner Temperature:		**N/A** °F **N/A** seconds **N/A**°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	**N/A** mmBtu/hr	
2. Maximum Incineration Rate:	**N/A** lb/hr	**N/A** tons/day
3. Maximum Process or Throughput Rate: **35 TPH Wet Limestone**		
4. Maximum Production Rate: **N/A**		
5. Requested Maximum Operating Schedule: **24** hours/day **52** weeks/year		**7** days/week **8760** hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

- **Maximum Process Rate:**

Maximum throughput of limestone drying and processing facility is 35 tph (monthly average basis) and 306,600 tons per 12 consecutive month period.

Emissions Unit Information Section 4 of 7
[E.U. 005: Storage Silos]

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **FA-4**	2. Emission Point Type Code: **1**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **Fan vent for Dust Collector 4**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **N/A**		
5. Discharge Type Code: **H**	6. Stack Height: **N/A** feet	7. Exit Diameter: **N/A** feet
8. Exit Temperature: **200** °F	9. Actual Volumetric Flow Rate: **6,000** acfm	10. Water Vapor: **~2** %
11. Maximum Dry Standard Flow Rate: **4,704** dscfm	12. Nonstack Emission Point Height: **~97** feet	
13. Emission Point UTM Coordinates: **Not Determined** Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **Maximum Dry Standard Flow Rate:** **6,000 acfm x (1-0.02) x [(68+460)/(200 + 460)] = 4,704 dscfm**		

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ Mineral Products/ Stone Quarrying—Processing/ General**		
2. Source Classification Code (SCC): **3-05-020-99**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **35 (Wet Basis)**	5. Maximum Annual Rate: **306,600 (Wet Basis)**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **N/A**
10. Segment Comment (limit to 200 characters): **Dust Collector 4 (DC-4) vents particulate emissions from Silo SS-3. Piping connects air flow from Silo SS-1 to Silo SS-4, Silo SS-4 to Silo SS-2, and Silo SS-2 to Silo SS-3.**		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**	2. Pollutant Regulatory Code: **EL**	
3. Primary Control Device Code: **017**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/D**
6. Potential Emissions: **0.89** lb/hour **3.89** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.022 gr/dscf** Reference: **40 CFR 60.672(a)**		9. Emissions Method Code: **0**

10. Calculation of Emissions (limit to 600 characters):

(0.022 gr/dscf) x (4,704 dscf/min) x (60 min/hr) x (1 lb PM/7000 gr) = 0.89 lb PM/hr
(0.89 lb PM/hr) x (8760 hr/yr) x (1 ton/2000 lbs) = 3.89 tons PM/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters): **None.**

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **Rule**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.022 gr/dscf**	4. Equivalent Allowable Emissions: **0.89** lb/hour **3.89** tons/year

5. Method of Compliance (limit to 60 characters): **EPA Method 5**

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):
Per 40 CFR 60.672(a)(1).

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: **VE07**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **7%** Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 40 CFR 60.672—Applies to storage silos.**	

Visible Emissions Limitation: Visible Emissions Limitation N/A of N/A

1. Visible Emissions Subtype: **N/A**	2. Basis for Allowable Opacity: **N/A** [ ] Rule [ ] Other
3. Requested Allowable Opacity: **N/A** Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **N/A**	
5. Visible Emissions Comment (limit to 200 characters): **N/A**	

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

Continuous Monitoring System: Continuous Monitor **N/A** of **N/A**

1. Parameter Code: **N/A**	2. Pollutant(s): **N/A**
3. CMS Requirement: **N/A**	[ ] Rule [ ] Other
4. Monitor Information: **N/A** Manufacturer: **N/A** Model Number: **N/A**	Serial Number: **N/A**
5. Installation Date: **N/A**	6. Performance Specification Test Date: **N/A**
7. Continuous Monitor Comment (limit to 200 characters): **N/A**	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] 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 [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: **N/A**

Emissions Unit Information Section 5 of 7
[No. I.D.: Fugitive Emissions—Enclosed Building]

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)

[ ] 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, 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.

[X] 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):
Fugitive Emissions—Enclosed Building

3. Emissions Unit Identification Number:
ID: 008
[X] No ID
[ ] ID Unknown

4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **~1998**	6. Emissions Unit Major Group SIC Code: **14**

7. Emissions Unit Comment: (Limit to 500 Characters)
Fugitive emissions from various sources within the enclosed building.

Emissions Unit Information Section 5 of 7
[No. I.D.: Fugitive Emissions—Enclosed Building]

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

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	**N/A** mmBtu/hr	
2. Maximum Incineration Rate:	**N/A** lb/hr	**N/A** tons/day
3. Maximum Process or Throughput Rate: **35 TPH Wet Limestone**		
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):

- **Maximum Process Rate:**

Maximum throughput of limestone drying and processing facility is 35 tph (monthly average basis) and 306,600 tons per 12 consecutive month period.

Emissions Unit Information Section 5 of 7
[No. I.D.: Fugitive Emissions—Enclosed Building]

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **N/A**	2. Emission Point Type Code: **4**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **Fugitive emissions from various sources in enclosed building.**		
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: 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: ~79 feet	
13. Emission Point UTM Coordinates: **Not Determined** Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **The highest point of the building is approximately 79 feet tall and is located towards the middle of the building. The west end of the building stands ~45 ft tall, while the east end of the building stands ~36 feet tall.**		

A.3. Visible Emissions Limitations: The fugitive emissions from the emission points are limited as follows:

Emission Point No.	Brief Description	Max.VE Limit (% Opacity)
1	Material from outdoor storage pile(s) transferred by front-end loader(s) to Loading Hopper (LH-1)	<20*
2	Loading Hopper (LH-1) to Conveyor Belt (BC-1)	10**
3	Conveyor Belt (BC-1) to Feed Bin (BN-1)	10**
4	Conveyor Belt (BC-1) to Crusher (CR-01)	15***
5	Crusher (CR-01) to Feed Bin (BN-1)	10*

[Rule 62-296.320(4)(b), F.A.C.* and 40 CFR 60.672(b)** and (c)***]

A.4. Recordkeeping Requirements: The permittee at a minimum shall **monthly** record the following:

A. The total hours of transferring wet limestone.

B. The most recent consecutive 12-month period total hours of transferring wet limestone.

C. The records required below to document the dryer's (Emission Unit No. 002) wet limestone process input rate shall be used to also document the amount of material (throughput) for this emission unit, in order to complete the Annual Operating Report required pursuant to Rule 62-210.370, F.A.C.

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

A.5. Visible Emission Test Frequency Requirements: Emission Point Nos. 2, 3, 4, and 5 shall **each** be initially tested for visible emissions within 60 days after the effective date of this permit and annually thereafter during each federal fiscal year (October 1 – September 30). {Permitting Note: Visible emission testing for Emission Point No. 1 is not required to conduct regular scheduled testing, since the applicable visible emission limitation is a facility-wide limitation and there is no applicable allowable mass emission limitation.}
[Rule 62-297.310(7), F.A.C.]

Emissions Unit Information Section 5 of 7
[No. I.D.: Fugitive Emissions—Enclosed Building]

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ Mineral Products/ Stone Quarrying—Processing/ General**		
2. Source Classification Code (SCC): **3-05-020-99**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **35 (Wet Basis)**	5. Maximum Annual Rate: **306,600 (Wet Basis)**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **N/A**
10. Segment Comment (limit to 200 characters): **None.**		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**	2. Pollutant Regulatory Code: **EL**	
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/D**
6. Potential Emissions: **0.51** lb/hour **2.21** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.0054 lb PM/ton (tertiary crushing) 0.0030 lb PM/ton (uncontrolled conveyor transfer point) 0.0030 lb PM/ton (feed bin to feed table)** Reference: **AP-42, Table 11.19.2-2 (tertiary crushing, uncontrolled conveyor transfer point)** **FIRE 6.25**		9. Emissions Method Code: **3**

10. Calculation of Emissions (limit to 600 characters):

- **For crusher:**

(0.0054 lb PM/ton) x (35 tons/hour) = 0.19 lb PM/hr
(0.19 lb PM/hr) x (8760 hr/yr) x (1 ton/2000 lbs) = 0.83 tons PM/yr

- **For conveyor belts:**

2 x (0.0030 lb PM/ton) x (35 tons/hour) = 0.21 lb PM/hr
(0.21 lb PM/hr) x (8760 hr/yr) x (1 ton/2000 lbs) = 0.92 tons PM/yr

- **For feed bin to feed table:**

(0.003 lb PM/ton) x (35 tons/hr) = 0.11 lb PM/hr
(0.11 lb PM/hr) x (8760 hr/yr) x (1 ton/2000 lbs) = 0.46 tons PM/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor for uncontrolled tertiary crushing was used to provide a conservative estimate for particulate emissions from the crusher. The emission factor for screen/convey/handling was used as the emission factor for the feed bin to feed table.**

Allowable Emissions Allowable Emissions **N/A** of **N/A**

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

Emissions Unit Information Section 5 of 7
[No I.D.: Fugitive Emissions—Enclosed Building]

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: **VE00**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **0%** Exceptional Conditions: **0%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 22**	
5. Visible Emissions Comment (limit to 200 characters): **Per 40 CFR 60.672(e)**	

Visible Emissions Limitation: Visible Emissions Limitation N/A of N/A

1. Visible Emissions Subtype: **N/A**	2. Basis for Allowable Opacity: **N/A** [ ] Rule [ ] Other
3. Requested Allowable Opacity: **N/A** Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **N/A**	
5. Visible Emissions Comment (limit to 200 characters): **N/A**	

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

Continuous Monitoring System: Continuous Monitor **N/A** of **N/A**

1. Parameter Code: **N/A**	2. Pollutant(s): **N/A**
3. CMS Requirement: **N/A**	[ ] Rule [ ] Other
4. Monitor Information: **N/A** Manufacturer: **N/A** Model Number: **N/A**	Serial Number: **N/A**
5. Installation Date: **N/A**	6. Performance Specification Test Date: **N/A**
7. Continuous Monitor Comment (limit to 200 characters): **N/A**	

Emissions Unit Information Section 5 of 7
[No I.D.: Fugitive Emissions—Enclosed Building]

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] 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 [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: **N/A**

Emissions Unit Information Section 6 of 7
[No I.D.: Fugitive Emissions—Outside Building]

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)

[ ] 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, 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.

[X] 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):
Fugitive Emissions—Outside Building

3. Emissions Unit Identification Number:
ID: 007
[X] No ID
[ ] ID Unknown

4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **~1998**	6. Emissions Unit Major Group SIC Code: **14**

7. Emissions Unit Comment: (Limit to 500 Characters)
Fugitive Emissions from outside of the building.

Emissions Unit Information Section 6 of 7
[No I.D.: Fugitive Emissions—Outside Building]

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

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	**N/A** mmBtu/hr	
2. Maximum Incineration Rate:	**N/A** lb/hr	**N/A** tons/day
3. Maximum Process or Throughput Rate: **120 TPH Wet Limestone**		
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):

Maximum throughput of limestone drying and processing facility is 35 tph (monthly average basis); therefore the maximum annual process rate is 306,600 tons per 12 consecutive month period.

Feed Bin has an input process rate of 120 tons per hour.

Emissions Unit Information Section 6 of 7
[No I.D.: Fugitive Emissions—Outside Building]

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **N/A**	2. Emission Point Type Code: **4**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **Load Hopper (LH-1), Belt Conveyor (BC-1), Crusher (CR-01—Proposed new), Feed Bin (BN-1)**		
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: **N/A** °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: **~71** feet	
13. Emission Point UTM Coordinates: **Not Determined** Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **Non-stack height is the height of the crusher from ground level.**		

Emissions Unit Information Section 6 of 7
[No I.D.: Fugitive Emissions—Outside Building]

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ Mineral Products/ Stone Quarrying—Processing/ General**		
2. Source Classification Code (SCC): **3-05-020-99**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **120 (Wet Basis)**	5. Maximum Annual Rate: **306,600 (Wet Basis)**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **N/A**
10. Segment Comment (limit to 200 characters): **None.**		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**		2. Pollutant Regulatory Code: **EL**
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/D**
6. Potential Emissions: **1.73** lb/hour **2.21** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.0054 lb PM/ton (tertiary crushing) 0.0030 lb PM/ton (front end loader, hopper, uncontrolled conveyor transfer point, feed bin)** Reference: **AP-42, Table 11.19.2-2 (tertiary crushing, uncontrolled conveyor transfer point)** **FIRE 6.25**		9. Emissions Method Code: **3**

10. Calculation of Emissions (limit to 600 characters):
For Crusher to feed bin:
(0.0054 lb PM/ton) x (120 tons/hr) = 0.65 lb PM/hr
(0.0054 lb PM/ton) x (306,600 tons/yr) x (1 ton/2000 lbs) = 0.83tons PM/yr

For front end loader to hopper, hopper to belt conveyor, belt conveyor to feed bin, belt conveyor to crusher:
3 x (0.0030 lb PM/ton) x (120 tons/hr) = 1.08 lbs PM/hr
3 x (0.0030 lb PM/ton) x (306,600 tons/yr) x (1 ton/2000 lbs)= 1.38 tons PM/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor for uncontrolled tertiary crushing was used to provide a conservative estimate for particulate emissions from the crusher. The emission factor for screen/convey/handling was used as the emission factor for the feed bin, hopper, and front end loader.**

Allowable Emissions Allowable Emissions **N/A** of **N/A**

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

Emissions Unit Information Section 6 of 7
[No ID: Fugitive Emissions—Outside Building]

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 3

1. Visible Emissions Subtype: **VE10**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **10%** Exceptional Conditions: **10%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 40 CFR 60.672, this emissions limit applies to various fugitive emissions from equipment, except for crushers, subject to 40 CFR 60, Subpart OOO outside of the enclosed building.**	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 3

1. Visible Emissions Subtype: **VE15**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **15%** Exceptional Conditions: **15%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 40 CFR 60.672, this emissions limit applies to crushers, subject to 40 CFR 60, Subpart OOO outside of the enclosed building.**	

Emissions Unit Information Section 6 of 7
[No ID: Fugitive Emissions—Outside Building]

Visible Emissions Limitation: Visible Emissions Limitation 3 of 3

1. Visible Emissions Subtype: **VE20**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **20%** Exceptional Conditions: **20%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 62-296.320(4)(b), F.A.C., this emissions limit applies to all other equipment not subject to 40 CFR 60, Subpart OOO.**	

Emissions Unit Information Section 6 of 7
[No ID: Fugitive Emissions—Outside Building]

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

Continuous Monitoring System: Continuous Monitor **N/A** of **N/A**

1. Parameter Code: **N/A**	2. Pollutant(s): **N/A**
3. CMS Requirement: **N/A**	[ ] Rule [ ] Other
4. Monitor Information: **N/A** Manufacturer: **N/A** Model Number: **N/A**	Serial Number: **N/A**
5. Installation Date: **N/A**	6. Performance Specification Test Date: **N/A**
7. Continuous Monitor Comment (limit to 200 characters): **N/A**	

Emissions Unit Information Section 6 of 7
[No ID: Fugitive Emissions—Outside Building]

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] 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 [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: **N/A**

Emissions Unit Information Section 7 of 7
[No ID: Truck Loading Activities]

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)

[X] 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, 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.

[ ] 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):
Truck Loading Activities

3. Emissions Unit Identification Number:
ID: 06

[X] No ID
[ ] ID Unknown

4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **~1998**	6. Emissions Unit Major Group SIC Code: **14**

7. Emissions Unit Comment: (Limit to 500 Characters)
Emissions from truck loading activities. Emissions are controlled by dust collector 2 (DC-2)

Emissions Unit Information Section 7 of 7
[No ID: Truck Loading Activities]
Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): **Fabric Filter—Medium Temperature (180°F < T < 250°F)**
2. Control Device or Method Code(s): **017**

Emissions Unit Details

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

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	**N/A** mmBtu/hr	
2. Maximum Incineration Rate:	**N/A** lb/hr	**N/A** tons/day
3. Maximum Process or Throughput Rate: **108 TPH product**		
4. Maximum Production Rate: **N/A**		
5. Requested Maximum Operating Schedule: **24** hours/day **52** weeks/year		**7** days/week **8760** hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters): • **Maximum Process Rate:** **Maximum process or throughput of truck loading activities is 108 tph of 306,600 tons per 12 consecutive month period.**		

Emissions Unit Information Section 7 of 7
[No ID: Truck Loading Activities]

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **FA-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): **Fan outlet from dust collector 2 (DC-2)**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **N/A**		
5. Discharge Type Code: **V**	6. Stack Height: **~14** feet	7. Exit Diameter: **1.5** feet
8. Exit Temperature: **200** °F	9. Actual Volumetric Flow Rate: **12,800** acfm	10. Water Vapor: **~2** %
11. Maximum Dry Standard Flow Rate: **10,035** dscfm	12. Nonstack Emission Point Height: **N/A** feet	
13. Emission Point UTM Coordinates: **Not Determined** Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **12,800 acfm x (1-0.02) x[(68 + 460)/(200 + 460)] = 10,035 dscfm** **Also see EU 003: Screening/Material Handling.**		

Emissions Unit Information Section 7 of 7
[No ID: Truck Loading Activities]

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ Mineral Products/ Stone Quarrying—Processing/ Truck Unloading**		
2. Source Classification Code (SCC): **3-05-020-31**	3. SCC Units: **Tons Product**	
4. Maximum Hourly Rate: **108**	5. Maximum Annual Rate: **306,600**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **N/A**
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**		2. Pollutant Regulatory Code: **EL**
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/D**
6. Potential Emissions: **See EU 003** lb/hour **See EU 003** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.022 gr/dscf** Reference: **40 CFR 60.672(a)**		9. Emissions Method Code: **5**
10. Calculation of Emissions (limit to 600 characters):		
11. Pollutant Potential Emissions Comment (limit to 200 characters): **Since the emissions from EU 003 and truck loading operations both are collected from DC-2**		

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **Rule**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **See allowable emission information in EU 003.**	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): **Since the emissions from EU 003 and truck loading operations both are collected from DC-2**	

Emissions Unit Information Section 7 of 7
[No ID: Truck Loading Activities]

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

Visible Emissions Limitation: Visible Emissions Limitation **1** of **2**

1. Visible Emissions Subtype: **VE07**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **7%** Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **40 CFR 60.672(a)—enclosed truck loading station.**	

Visible Emissions Limitation: Visible Emissions Limitation **2** of **2**

1. Visible Emissions Subtype: **VE10**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **10%** Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 40 CFR 60.672(b)—Enclosed truck loading station.**	

Emissions Unit Information Section 7 of 7
[No ID: Truck Loading Activities]

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

Continuous Monitoring System: Continuous Monitor **N/A** of **N/A**

1. Parameter Code: **N/A**	2. Pollutant(s): **N/A**
3. CMS Requirement: **N/A**	[ ] Rule [ ] Other
4. Monitor Information: **N/A** Manufacturer: **N/A** Model Number: **N/A**	Serial Number: **N/A**
5. Installation Date: **N/A**	6. Performance Specification Test Date: **N/A**
7. Continuous Monitor Comment (limit to 200 characters): **N/A**	

Emissions Unit Information Section 7 of 7
[No ID: Truck Loading Activities]

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] 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 [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: **N/A**

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: **Consolidated Minerals, Inc.**	
2. Site Name: **Center Hill Hi-Cal Plant**	
3. Facility Identification Number: **1190018** [ ] Unknown	
4. Facility Location: Street Address or Other Locator: **State Road 48 West** City: **Center Hill** County: **Sumter** Zip Code: **33514**	
5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [X] Yes [ ] No

Application Contact

1. Name and Title of Application Contact: **Veronica N. Sgro, E.I.**
2. Application Contact Mailing Address: Organization/Firm: **Koogler & Associates, Inc.** Street Address: **4014 NW 13th Street** City: **Gainesville** State: **FL** Zip Code: **32609**
3. Application Contact Telephone Numbers: Telephone: **(352) 377-5822** Fax: **(352) 377-7158**

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	10-20-2005
2. Permit Number:	1190018-012-AC

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:_____

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)

[X] 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: **Kyle Garrett, Vice President**

2. Owner/Authorized Representative Mailing Address:
   Organization/Firm: **Consolidated Minerals, Inc.**
   Street Address: **1616 S. 14th Street**
   City: **Leesburg** State: **FL** Zip Code: **34748**

3. Owner/Authorized Representative Telephone Numbers:
   Telephone: **(352) 365-6522** Fax: **(352) 455-5553**

4. Owner/Authorized Representative Statement:

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.*

Signature 10-19-05
Date

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: **Maxwell Lee, Ph.D, P.E.**
   Registration Number: **58091**

2. Professional Engineer Mailing Address:
   Organization/Firm: **Koogler & Associates, Inc.**
   Street Address: **4014 NW 13th Street**
   City: **Gainesville** State: **FL** Zip Code: **32609**

3. Professional Engineer Telephone Numbers:
   Telephone: **(352) 377-5822** Fax: **(352) 377-7158**

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 [X], 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

10/18/01
Date

(seal)

* Attach any exception to certification statement.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
002	Dryer	AC1C	$4500.00
003	Screening/Material Handling	AC1E	$1000.00
004	Milling Operations	AC1E	$1000.00
No. I.D.	Truck Loading Activities		
005	Storage Silos (SS-1 through SS-4)	AC1E	$250.00
No I.D.	Fugitive Emissions—Enclosed Building	AC1F	$250.00
No I.D.	Fugitive Emissions—Outside Building	AC1F	$250.00

Application Processing Fee

Check one: [X] Attached - Amount: $1,500.00 [ ] Not Applicable

Total Fee is $7,250.00; however, a $5,750.00 processing fee was submitted with the Air Construction Permit Application dated August 9, 2005.

Construction/Modification Information

1. Description of Proposed Project or Alterations:

Project is a proposed limestone drying and processing plant in Sumter County. Limestone is dried and processed to produce crushed stone meeting various specifications. Processing operations include hauling, drying, crushing, screening, conveying, stockpiling, and product handling. A revised process flow diagram and description are attached to this application.

This air construction permit application addresses the following issues:

- **Dryer Potential Emissions: Existing permitted dryer potential emissions are to be calculated using statistical analysis of previous stack test data.**
- **Fugitive Emissions—Enclosed Building: Request that the Department includes emission unit entitled "Fugitive Emissions--Enclosed Building" in the Air Permit.**
- **Fugitive Emissions—Outside Building: Request that the Department includes emission unit entitled "Fugitive Emissions—Outside Building" in Air Permit.**
- **Truck Loading Operations: Request that the Department includes emission unit entitled "Truck Loading Operations" in Air Permit.**
- **Maximum Throughput: Increase the maximum throughput from 30 tons /hr wet limestone (monthly average basis) and 262,800 tons/12-month consecutive period to 35 tons/hr wet limestone (monthly average basis) and 306,600 tons/12 consecutive month period.**

2. Projected or Actual Date of Commencement of Construction: **N/A**

3. Projected Date of Completion of Construction: **N/A**

Application Comment

Dryer: The greatest potential emission for Dust Collector 1, which controls the dryer, is 98.25 tpy of SO_2. Since the potential emissions are greater than 50 tpy but less than 100 tpy, the processing fee for Dust Collector 1, which controls the dryer is $4,500.00 per 62-4.050(4)(a)(2)(b), F.A.C.

Screening/Material Handling: The greatest potential emission from Screening/Material Handling is 8.29 tpy of PM. Since the potential emissions are greater than 5 tpy but less than 25 tpy, the processing fee for this emissions unit is $1000.00 per 62-4.050(4)(1)(2)(d), F.A.C.

Milling Operations and Truck Loading Activities: Milling Operations and Truck Loading Activities are applicable for similar emissions unit fee. The greatest potential emission from Milling Operations and Truck Loading Activities is 5.20 tpy of PM. Since the potential emissions are greater than 5 tpy but less than 25 tpy, the processing fee for these similar emissions units is $1000.00 per 62-4.050(4)(1)(2)(d), F.A.C.

Storage Silos: The greatest potential emission from the Storage Silos is 3.89 tpy of PM. Since the potential emissions are less than 5 tpy, the processing fee for this emissions unit is $250.00 per 62-4.050(4)(1)(2)(e), F.A.C.

Fugitive Emissions—Enclosed Building: The expected greatest potential emission from the fugitive emissions from the enclosed building is 2.67 tpy of PM. Since the potential emissions are less than 5 tpy, the processing fee for this emissions unit is $250.00 per 62-4.050(4)(1)(2)(e), F.A.C.

Fugitive Emissions—Outside Building: The expected greatest potential emission from fugitive emissions from operational activities outside of the building is 2.66 tpy of PM. Since the potential emissions are less than 5 tpy, the processing fee for this emissions unit is $250.00 per 62-4.050(4)(1)(2)(e), F.A.C.

Exemptions: This application requests that the fuel tank for No. 4 fuel is exempt from permitting action, as the emissions from the tank are assumed to be minimal.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone: **17** East (km): **401.5** North (km): **3169.5**			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): **28/39/02** Longitude (DD/MM/SS): **82/00/28**			
3. Governmental Facility Code: **0**	4. Facility Status Code: **A**	5. Facility Major Group SIC Code: **14**	6. Facility SIC(s): **1422**
7. Facility Comment (limit to 500 characters): **None.**			

Facility Contact

1. Name and Title of Facility Contact: **Walter Merritt, Plant Manager**
2. Facility Contact Mailing Address: Organization/Firm: **Consolidated Minerals, Inc.** Street Address: **530 West Kings Highway** City: **Center Hill** State: **Florida** Zip Code: **33514**
3. Facility Contact Telephone Numbers: Telephone: **(352) 569-0328** Fax: **(352) 568-1515**

Facility Regulatory Classifications

Check all that apply:

1. [ ] Small Business Stationary Source?	[X] Unknown
2. [X] Synthetic Non-Title V Source?	
3. [X] Synthetic Minor Source of Pollutants Other than HAPs?	
4. [ ] Synthetic Minor Source of HAPs?	
5. [X] One or More Emissions Units Subject to NSPS?	
6. [ ] One or More Emission Units Subject to NESHAP Recordkeeping or Reporting?	
7. Facility Regulatory Classifications Comment (limit to 200 characters): **40 CFR 60, Subpart OOO—Standards of Performance for Nonmetallic Mineral Processing Plants.** **Please refer to attached process flow diagram and description in the attached supporting documentation (Attachment 1) for the list of equipment subject to 40 CFR 60, Subpart OOO.**	

Rule Applicability Analysis

- **40 CFR 60, Subpart OOO—Standards of Performance for Nonmetallic Mineral Processing Plants.**
- **62-4, F.A.C.**
- **62-210, F.A.C.**
- **62-296, F.A.C.**
- **62-297, F.A.C.**

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap lb/hour	3. Requested Emissions Cap tons/year	4. Basis for Emissions Cap	5. Pollutant Comment
PM	**B**	**N/A**	**N/A**	**N/A**	**N/A**
SO_2	**SM**	**N/A**	**N/A**	**N/A**	**N/A**

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location: [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested **Department has on file.**
2. Facility Plot Plan: [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested **Department has on file.**
3. Process Flow Diagram(s): [X] Attached, Document ID: **Supporting Documentation** [] Not Applicable [] Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Supplemental Information for Construction Permit Application: [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
6. Supplemental Requirements Comment: **Supporting documentation includes process flow diagram with process descriptions.**

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)

[X] 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, 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.

[ ] 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):
Dryer

3. Emissions Unit Identification Number:
ID: **002**
[ ] No ID
[ ] ID Unknown

4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **~1998**	6. Emissions Unit Major Group SIC Code: **14**

7. Emissions Unit Comment: (Limit to 500 Characters)
Dust Collector No. 1 (DC-1) controls particulate matter emissions from dryer.

Emissions Unit Information Section 1 of 7
[E.U. 002: Dryer]
Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): **Fabric Filter—High Temperature (T > 250° F)**
2. Control Device or Method Code(s): **016**

Emissions Unit Details

1. Package Unit: **N/A** Manufacturer: **Sly, Inc.**	Model Number: **STJ-2817-12**	
2. Generator Nameplate Rating:	**N/A** MW	
3. Incinerator Information: **N/A** Dwell Temperature: Dwell Time: Incinerator Afterburner Temperature:		**N/A** °F **N/A** seconds **N/A**°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	**85.0** mmBtu/hr	
2. Maximum Incineration Rate:	**N/A** lb/hr	**N/A** tons/day
3. Maximum Process or Throughput Rate: **35 TPH Wet Limestone**		
4. Maximum Production Rate: **N/A**		
5. Requested Maximum Operating Schedule: **24** hours/day **52** weeks/year		**7** days/week **8760** hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

- **Maximum Heat Input Rate:**

582.2 gal/hr of #4 fuel oil @ 146,000 BTU/gal = 85.0 mmBtu/hr
2,620,000 gal/yr of #4 fuel oil @ 146,000 BTU/gal = 382,520 MMBtu/yr

- **Maximum Process Rate:**

Maximum throughput of limestone drying and processing facility is 35 tph (monthly average basis) and 306,600 tons per 12 consecutive month period.

Emissions Unit Information Section 1 of 7
[E.U. 002: Dryer]

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **ST-1**	2. Emission Point Type Code: **1**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **Stack from Dust Collector 1**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **N/A**		
5. Discharge Type Code: **V**	6. Stack Height: **75** feet	7. Exit Diameter: **3.8** feet
8. Exit Temperature: **375** °F	9. Actual Volumetric Flow Rate: **35,000** acfm	10. Water Vapor: **23** %
11. Maximum Dry Standard Flow Rate: **17,041** dscfm	12. Nonstack Emission Point Height: **N/A** feet	
13. Emission Point UTM Coordinates: **Not Determined** Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **Maximum Dry Standard Flow Rate:** **35,000 acfm x (1-0.23) x [(68+460)/(375 + 460)] = 17,041dscfm**		

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 4

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ Mineral Products/ Stone Quarrying—Processing/ General** **Dust Collector 1 (DC-1) collects particulate emissions from the dryer.**		
2. Source Classification Code (SCC): **3-05-020-99**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **35 (Wet Basis)**	5. Maximum Annual Rate: **306,600 (Wet Basis)**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **N/A**
10. Segment Comment (limit to 200 characters): **None.**		

Segment Description and Rate: Segment 2 of 4

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ In Process Fuel Use/ Residual Oil/ Dryer**		
2. Source Classification Code (SCC): **3-90-004-02**	3. SCC Units: **Thousand Gallons Burned**	
4. Maximum Hourly Rate: **0.582**	5. Maximum Annual Rate: **2,620**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **0.50**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **146**
10. Segment Comment (limit to 200 characters): **Annual fuel usage rate is limited to escape Title V.**		

Emissions Unit Information Section 1 of 7
[E.U. 002: Dryer]

Segment Description and Rate: Segment 3 of 4

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/In-Process Fuel Use/ Liquified Petroleum Gas (Propane)/ General**		
2. Source Classification Code (SCC): **3-90-010-89**	3. SCC Units: **Thousand Gallons Burned**	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **90.5**
10. Segment Comment (limit to 200 characters): **Per Specific Condition 7 of Permit No. 1190018-008-AO:** **"Liquefied Petroleum Gas (Propane) shall be used as an ignition fuel for start up of the dryer. [permit application received 5/30/00] Permitting note: For each ignition attempt, propane is ignited at a rate of 250,000 BTU/hr for a maximum of 20 seconds.**		

Segment Description and Rate: Segment 4 of 4

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ In-Process Fuel Use/ Natural Gas/ General**		
2. Source Classification Code (SCC): **3-90-006-89**	3. SCC Units: **Million Cubic Feet**	
4. Maximum Hourly Rate: ~~**0.085**~~ **0.081**	5. Maximum Annual Rate: ~~**745**~~ **709**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **1050**
10. Segment Comment (limit to 200 characters): **Hourly Maximum:** **(85 mmBtu/hr) x (1 mmcf/1050 mmBtu) = 0.085 mmcf/hr** **Annual Maximum:** **(0.085 mmBtu/hr) x (8760 hr/yr) = 745 mmcf/yr**		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**		2. Pollutant Regulatory Code: **EL**
3. Primary Control Device Code: **016**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/D**
6. Potential Emissions: **5.84** lb/hour **25.59** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.04 gr/dscf** Reference: **Test Data**		9. Emissions Method Code: **1**
10. Calculation of Emissions (limit to 600 characters): **(0.04 gr/dscf) x (17,041 dscf/min) x (60 min/hr) x (1 lb PM/7000 gr) = 5.84 lb PM/hr (5.84 lb PM/hr) x (8760 hr/yr) x (1 ton/2000 lbs) = 25.59 tons PM/yr**		
11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor is based on test results, 98% confidence level, and a safety factor of 2. In addition, this emission factor is the accepted emission factor in NSPS Subpart I; not applicable, but involving a similar process.**		

Emissions Unit Information Section 1 of 7
[E.U. 002: Dryer]
Pollutant Detail Information Page 1 of 5

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: **Rule**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **35 wet tons per hour**	4. Equivalent Allowable Emissions: **30.6** lb/hour **133.9** tons/year
5. Method of Compliance (limit to 60 characters): **EPA Method 5**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **Process Weight Rate using the formula $E = 17.31P^{0.16}$, where E = emissions in lb/hr and P = process weight rate in tph.** **$E = 17.31(35)^{0.16} = 30.6$ lbs/hr = 133.9 tons/yr**	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: **ESCTV**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.04 gr/dscf**	4. Equivalent Allowable Emissions: **5.84** lb/hour **25.59** tons/year
5. Method of Compliance (limit to 60 characters): **EPA Method 5**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **None.**	

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **SO_2**	2. Pollutant Regulatory Code: **EL**	
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/A**
6. Potential Emissions: **43.65** lb/hour **98.25** tons/year		7. Synthetically Limited? **[X]**
8. Emission Factor: **150S lb SO_2/1000 gallons** Reference: **AP-42, Table 1.3-1**		9. Emissions Method Code: **4**

10. Calculation of Emissions (limit to 600 characters):

[150(0.5) lb SO_2/TGB] x (0.582 TGB/hr) = 43.65 lbs SO_2/hr
[150(0.5) lb SO_2/TGB] x (2,620 TGB/yr) x (1 ton/2000 lbs) = 98.25 ton SO_2/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor based on No. 4 oil-fired boilers < 100 mmbtu/hr.**

Allowable Emissions Allowable Emissions **1** of **1**

1. Basis for Allowable Emissions Code: **ESCTV**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.5% Sulfur in fuel oil**	4. Equivalent Allowable Emissions: **43.65** lb/hour **98.25** tons/year
5. Method of Compliance (limit to 60 characters): **Fuel oil analysis by vendor**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **N/A**	

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **NO_x**		2. Pollutant Regulatory Code: **NS**
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/A**
6. Potential Emissions: **11.64** lb/hour **26.20** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **20 lbs NO_x/1000 gallons** Reference: **AP-42, Table 1.3-1**		9. Emissions Method Code: **4**

10. Calculation of Emissions (limit to 600 characters):

(20 lbs NO_x/TGB) x (0.582 TGB/hr) = 11.64 lbs NO_x/hr
(20 lbs NO_x/TGB) x (2,620 TGB/yr) x (1 ton/2000 lbs) = 26.20 tons NO_x/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor based on No. 4 oil-fired boilers < 100 mmbtu/hr.**

Allowable Emissions Allowable Emissions **N/A** of **N/A**

1. Basis for Allowable Emissions Code: **N/A**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **N/A**	4. Equivalent Allowable Emissions: **N/A** lb/hour **N/A** tons/year

5. Method of Compliance (limit to 60 characters): **N/A**

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **N/A**

Emissions Unit Information Section 1 of 7
[E.U. 002: Dryer]
Pollutant Detail Information Page 4 of 5

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **CO**		2. Pollutant Regulatory Code: **NS**
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/A**
6. Potential Emissions: **2.91** lb/hour **6.55** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **5 lbs CO/1000 gallons** Reference: **AP-42, Table 1.3-1**		9. Emissions Method Code: **4**
10. Calculation of Emissions (limit to 600 characters): **(5 lbs CO/TGB) x (0.582 TGB/hr) = 2.91 lbs CO/hr** **(5 lbs CO/TGB) x (2,620 TGB/yr) x (1 ton/2000 lbs) = 6.55 tons CO/yr**		
11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor based on No. 4 oil-fired boilers < 100 mmbtu/hr.**		

Allowable Emissions Allowable Emissions **N/A** of **N/A**

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

Emissions Unit Information Section 1 of 7
[E.U. 002: Dryer]
Pollutant Detail Information Page 5 of 5

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **VOC**	2. Pollutant Regulatory Code: **NS**	
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/A**
6. Potential Emissions: **0.12** lb/hour **0.26** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.2 lbs NMTOC/1000 gallons** Reference: **AP-42, Table 1.3-3**		9. Emissions Method Code: **4**
10. Calculation of Emissions (limit to 600 characters): **(0.2 lbs NMTOC/TGB) x (0.582 TGB/hr) = 0.12 lbs NMTOC/hr** **(0.2 lbs NMTOC/TGB) x (2,620 TGB/hr) x (1 ton/2000 lbs) = 0.26 tons NMTOC/yr**		
11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor for NMTOC was used in calculations instead of a VOC emission factor. Emission factor based on No. 4 oil-fired boilers < 100 mmbtu/hr.**		

Allowable Emissions Allowable Emissions **N/A** of **N/A**

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

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: **VE20**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **20%** Exceptional Conditions: **20%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 62-296.320(b)1, F.A.C., this emissions limit applies to Dust Collector 1, which collects PM emissions from the dryer.**	

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

Continuous Monitoring System: Continuous Monitor N/A of N/A

1. Parameter Code: **N/A**	2. Pollutant(s): **N/A**
3. CMS Requirement: **N/A**	[ ] Rule [ ] Other
4. Monitor Information: **N/A** Manufacturer: **N/A** Model Number: **N/A** Serial Number: **N/A**	
5. Installation Date: **N/A**	6. Performance Specification Test Date: **N/A**
7. Continuous Monitor Comment (limit to 200 characters): **N/A**	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] 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 [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. 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

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] 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).

[X] 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.

[ ] 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):
Screening and Milling

3. Emissions Unit Identification Number: ID: **003**		[ ] No ID [ ] ID Unknown
4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **~1998**	6. Emissions Unit Major Group SIC Code: **14**

7. Emissions Unit Comment: (Limit to 500 Characters)
Dust Collector No. 2 (DC-2) controls particulate matter emissions from screening and belt conveyor to milling operations.

Emissions Unit Information Section 2 of 7
[E.U. 003: Screening/Material Handling]
Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): **Fabric Filter—Medium Temperature ($180^{o}F < T < 250^{o}F$)**
2. Control Device or Method Code(s): **017**

Emissions Unit Details

1. Package Unit: **N/A** Manufacturer: **Sly, Inc**	Model Number: **STJ-1315-10**	
2. Generator Nameplate Rating:	**N/A** MW	
3. Incinerator Information: **N/A** Dwell Temperature: Dwell Time: Incinerator Afterburner Temperature:		**N/A** °F **N/A** seconds **N/A**°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	**N/A** mmBtu/hr	
2. Maximum Incineration Rate:	**N/A** lb/hr	**N/A** tons/day
3. Maximum Process or Throughput Rate: **35 TPH Wet Limestone**		
4. Maximum Production Rate: **N/A**		
5. Requested Maximum Operating Schedule: **24** hours/day **52** weeks/year		**7** days/week **8760** hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

- **Maximum Process Rate:**

Maximum throughput of limestone drying and processing facility is 35 tph (monthly average basis) and 306,600 tons per 12 consecutive month period.

Emissions Unit Information Section 2 of 7
[E.U. 003: Screening/Material Handling]

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **FA-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): **Fan outlet from dust collector 2 (DC-2)**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **N/A**		
5. Discharge Type Code: **H**	6. Stack Height: **N/A** feet	7. Exit Diameter: **N/A** feet
8. Exit Temperature: **200** °F	9. Actual Volumetric Flow Rate: **12,800** acfm	10. Water Vapor: **~2** %
11. Maximum Dry Standard Flow Rate: **10,035** dscfm	12. Nonstack Emission Point Height: **~14** feet	
13. Emission Point UTM Coordinates: **Not Determined** Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **Maximum Dry Standard Flow Rate:** **12,800 acfm x (1-0.02) x [(68+460)/(200 + 460)] = 10,035 dscfm**		

Emissions Unit Information Section 2 of 7
[E.U. 003: Screening/Material Handling]

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ Mineral Products/ Stone Quarrying—Processing/ General**		
2. Source Classification Code (SCC): **3-05-020-99**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **35 (Wet Basis)**	5. Maximum Annual Rate: **306,600 (Wet Basis)**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **N/A**
10. Segment Comment (limit to 200 characters): **Dust Collector 2 (DC-2) vents particulate emissions from the screening and milling operations.**		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**		2. Pollutant Regulatory Code: **EL**
3. Primary Control Device Code: **017**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/D**
6. Potential Emissions: **1.89** lb/hour **8.29** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.022 gr/dscf** Reference: **40 CFR 60.672(a)**		9. Emissions Method Code: **0**

10. Calculation of Emissions (limit to 600 characters):

(0.022 gr/dscf) x (10,035 dscf/min) x (60 min/hr) x (1 lb PM/7000 gr) = 1.89 lb PM/hr
(1.89 lb PM/hr) x (8760 hr/yr) x (1 ton/2000 lbs) = 8.29 tons PM/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters): **Dust Collector 2 (DC-2) collects emissions from the screening and belt conveyor to milling processes, which consists of various equipment that is subject to 40 CFR 60, Subpart OOO.**

Allowable Emissions Allowable Emissions **1** of **1**

1. Basis for Allowable Emissions Code: **Rule**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.022 gr/dscf**	4. Equivalent Allowable Emissions: **1.89** lb/hour **8.29** tons/year
5. Method of Compliance (limit to 60 characters): **EPA Method 9**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **Per 40 CFR 60.672(a)(1).**	

Emissions Unit Information Section 2 of 7
[E.U. 003: Screening/Material Handling]

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: **VE07**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **07%** Exceptional Conditions: **07%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 40 CFR 60.672(a)(2), this emissions limit applies to Dust Collector 2 (DC-2), which collects PM from various pieces of equipment and transfer points that are subject to 40 CFR 60, Subpart OOO.**	

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: **VE20**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **20%** Exceptional Conditions: **20%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 62-296.320(b)1, F.A.C., this emissions limit applies to all other equipment in the screening operations not subject to 40 CFR 60, Subpart OOO.**	

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

Continuous Monitoring System: Continuous Monitor N/A of N/A

1. Parameter Code: **N/A**	2. Pollutant(s): **N/A**
3. CMS Requirement: **N/A**	[ ] Rule [ ] Other
4. Monitor Information: **N/A** Manufacturer: **N/A** Model Number: **N/A**	Serial Number: **N/A**
5. Installation Date: **N/A**	6. Performance Specification Test Date: **N/A**
7. Continuous Monitor Comment (limit to 200 characters): **N/A**	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] 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 [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. 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

1. Type of Emissions Unit Addressed in This Section: (Check one)

[X] 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, 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.

[ ] 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):
Milling Operations

3. Emissions Unit Identification Number:
ID: **004**
[ ] No ID
[ ] ID Unknown

4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **~1998**	6. Emissions Unit Major Group SIC Code: **14**

7. Emissions Unit Comment: (Limit to 500 Characters)
Dust Collector No. 3 (DC-3) controls particulate matter emissions from milling operations.

Emissions Unit Information Section 3 of 7
[E.U. 004: Milling Operations]
Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): **Fabric Filter—Medium Temperature (180°F < T < 250° F)**
2. Control Device or Method Code(s): **017**

Emissions Unit Details

1. Package Unit: **N/A** Manufacturer: **Sly, Inc.**	Model Number: **STJ-78-10**	
2. Generator Nameplate Rating:	**N/A** MW	
3. Incinerator Information: **N/A** Dwell Temperature: Dwell Time: Incinerator Afterburner Temperature:		**N/A** °F **N/A** seconds **N/A**°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	**N/A** mmBtu/hr	
2. Maximum Incineration Rate:	**N/A** lb/hr	**N/A** tons/day
3. Maximum Process or Throughput Rate: **35 TPH Wet Limestone**		
4. Maximum Production Rate: **N/A**		
5. Requested Maximum Operating Schedule: **24** hours/day **52** weeks/year		**7** days/week **8760** hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters): • **Maximum Process Rate:** **Maximum throughput of limestone drying and processing facility is 35 tph (monthly average basis) and 306,600 tons per 12 consecutive month period.**		

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **FA-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): **Fan vent from Dust Collector 3**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **N/A**		
5. Discharge Type Code: **H**	6. Stack Height: **N/A** feet	7. Exit Diameter: **N/A** feet
8. Exit Temperature: **200** °F	9. Actual Volumetric Flow Rate: **4,000** acfm	10. Water Vapor: **~2** %
11. Maximum Dry Standard Flow Rate: **3,136** dscfm	12. Nonstack Emission Point Height: **~33** feet	
13. Emission Point UTM Coordinates: **Not Determined** Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **Maximum Dry Standard Flow Rate:** **4,000 acfm x (1-0.02) x [(68+460)/(200 + 460)] = 3,136 dscfm** **When dust collector 3 (DC-3) is off line, part of emissions from milling operations can also be collected by dust collector 2 (DC-2).**		

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ Mineral Products/ Stone Quarrying—Processing/ General**		
2. Source Classification Code (SCC): **3-05-020-99**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **35 (Wet Basis)**	5. Maximum Annual Rate: **306,600 (Wet Basis)**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **N/A**
10. Segment Comment (limit to 200 characters): **Dust Collector 3 (DC-3) vents particulate emissions from milling operations.**		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**	2. Pollutant Regulatory Code: **EL**	
3. Primary Control Device Code: **016**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/D**
6. Potential Emissions: **1.19** lb/hour **5.20** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.0404 lb/ton** Reference: **AP-42 Table 11.19.2-4**		9. Emissions Method Code: **3**
10. Calculation of Emissions (limit to 600 characters): **(0.0404 lb PM/ton) x (0.84 x 35 wet tons/hour) = 1.19 lbs PM/hr** **(1.19 lbs PM/hr) x (8760 hrs/yr) x (1 ton/2000 lbs) = 5.20 tons PM/yr**		
11. Pollutant Potential Emissions Comment (limit to 200 characters): **Dust Collector 3 (DC-3) collects emissions from the milling process. Raymond mill is not subject to NSPS OOO since it was constructed/reconstructed/modified prior to 08/31/1983.**		

58,800 lbs/h = 29.4 TPH

29.21 lbs/h ~ 127.92 TPY

0.17 = 340

Emissions Unit Inform. ›n Section 3 of 7
[E.U. 004: Milling Operations]
Pollutant Detail Information Page 1 of 1

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: **Rule**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **35 wet tons per hour**	4. Equivalent Allowable Emissions: **30.6** lb/hour **133.9** tons/year
5. Method of Compliance (limit to 60 characters): **EPA Method 5**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **Process Weight Rate using the formula $E = 17.31P^{0.16}$, where E = emissions in lb/hr and P = process weight rate in tph.** **$E = 17.31(35)^{0.16} = 30.6$ lbs/hr = 133.9 tons/yr**	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: **OTHER**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.0404 lb PM/ton**	4. Equivalent Allowable Emissions: **1.19** lb/hour **5.20** tons/year
5. Method of Compliance (limit to 60 characters): **EPA Method 5**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **Raymond mill is not subject to NSPS OOO since it was constructed/reconstructed/modified prior to 08/31/1983.**	

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: **VE20**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **20%** Exceptional Conditions: **20%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 62-296.320(b)1, F.A.C., this emissions limit applies to Dust Collector 3, which collects PM emissions from the Raymond Mill. The Raymond Mill is *NOT* subject to NSPS, as it was constructed/reconstructed/modified prior to 8/31/1983.**	

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

Continuous Monitoring System: Continuous Monitor N/A of N/A

1. Parameter Code: **N/A**	2. Pollutant(s): **N/A**
3. CMS Requirement: **N/A**	[ ] Rule [ ] Other
4. Monitor Information: **N/A** Manufacturer: **N/A** Model Number: **N/A** Serial Number: **N/A**	
5. Installation Date: **N/A**	6. Performance Specification Test Date: **N/A**
7. Continuous Monitor Comment (limit to 200 characters): **N/A**	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] 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 [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. 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

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] 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).

[X] 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.

[ ] 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):
Storage Silos

3. Emissions Unit Identification Number:
ID: **005**
[ ] No ID
[ ] ID Unknown

4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **~1998**	6. Emissions Unit Major Group SIC Code: **14**

7. Emissions Unit Comment: (Limit to 500 Characters)
Dust Collector No. 4 (DC-4) controls particulate matter emissions from Silo SS-3, as well as indirectly controlling particulate matter emissions from Silos SS-1, SS-2, and SS-4.

Silos 1, 2, and 3 (SS-1, SS-2, and SS-3, respectively) were constructed/reconstructed/modified prior to August 31, 1983 Silo SS-4 was constructed in July 2005.

The silos are subject to NSPS Subpart OOO.

Emissions Unit Information Section 4 of 7
[E.U. 005: Storage Silos]
Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): **Fabric Filter—Medium Temperature (180°F < T < 250° F)**
2. Control Device or Method Code(s): **017**

Emissions Unit Details

1. Package Unit: **N/A** Manufacturer: **Sly, Inc.**	Model Number: **STJ-88-10**	
2. Generator Nameplate Rating:	**N/A** MW	
3. Incinerator Information: **N/A** Dwell Temperature: Dwell Time: Incinerator Afterburner Temperature:		**N/A** °F **N/A** seconds **N/A**°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	**N/A** mmBtu/hr	
2. Maximum Incineration Rate:	**N/A** lb/hr	**N/A** tons/day
3. Maximum Process or Throughput Rate: **35 TPH Wet Limestone**		
4. Maximum Production Rate: **N/A**		
5. Requested Maximum Operating Schedule: **24** hours/day **52** weeks/year		**7** days/week **8760** hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters): • **Maximum Process Rate:** **Maximum throughput of limestone drying and processing facility is 35 tph (monthly average basis) and 306,600 tons per 12 consecutive month period.**		

Emissions Unit Information Section 4 of 7
[E.U. 005: Storage Silos]

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **FA-4**	2. Emission Point Type Code: **1**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **Fan vent for Dust Collector 4**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **N/A**		
5. Discharge Type Code: **H**	6. Stack Height: **N/A** feet	7. Exit Diameter: **N/A** feet
8. Exit Temperature: **200** °F	9. Actual Volumetric Flow Rate: **6,000** acfm	10. Water Vapor: **~2** %
11. Maximum Dry Standard Flow Rate: **4,704** dscfm	12. Nonstack Emission Point Height: **~97** feet	
13. Emission Point UTM Coordinates: **Not Determined** Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **Maximum Dry Standard Flow Rate:** **6,000 acfm x (1-0.02) x [(68+460)/(200 + 460)] = 4,704 dscfm**		

Emissions Unit Information Section 4 of 7
[E.U. 005: Storage Silos]

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ Mineral Products/ Stone Quarrying—Processing/ General**		
2. Source Classification Code (SCC): **3-05-020-99**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **35 (Wet Basis)**	5. Maximum Annual Rate: **306,600 (Wet Basis)**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **N/A**
10. Segment Comment (limit to 200 characters): **Dust Collector 4 (DC-4) vents particulate emissions from Silo SS-3. Piping connects air flow from Silo SS-1 to Silo SS-4, Silo SS-4 to Silo SS-2, and Silo SS-2 to Silo SS-3.**		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**		2. Pollutant Regulatory Code: **EL**
3. Primary Control Device Code: **017**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/D**
6. Potential Emissions: **0.89** lb/hour **3.89** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.022 gr/dscf** Reference: **40 CFR 60.672(a)**		9. Emissions Method Code: **0**
10. Calculation of Emissions (limit to 600 characters): **(0.022 gr/dscf) x (4,704 dscf/min) x (60 min/hr) x (1 lb PM/7000 gr) = 0.89 lb PM/hr** **(0.89 lb PM/hr) x (8760 hr/yr) x (1 ton/2000 lbs) = 3.89 tons PM/yr**		
11. Pollutant Potential Emissions Comment (limit to 200 characters): **None.**		

Allowable Emissions Allowable Emissions **1** of **1**

1. Basis for Allowable Emissions Code: **Rule**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.022 gr/dscf**	4. Equivalent Allowable Emissions: **0.89** lb/hour **3.89** tons/year
5. Method of Compliance (limit to 60 characters): **EPA Method 5**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **Per 40 CFR 60.672(a)(1).**	

Emissions Unit Information Section 4 of 7
[E.U. 005: Storage Silos]

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: **VE07**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: 7% Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 40 CFR 60.672—Applies to storage silos.**	

Visible Emissions Limitation: Visible Emissions Limitation N/A of N/A

1. Visible Emissions Subtype: **N/A**	2. Basis for Allowable Opacity: **N/A** [ ] Rule [ ] Other
3. Requested Allowable Opacity: **N/A** Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **N/A**	
5. Visible Emissions Comment (limit to 200 characters): **N/A**	

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

Continuous Monitoring System: Continuous Monitor **N/A** of **N/A**

1. Parameter Code: **N/A**	2. Pollutant(s): **N/A**
3. CMS Requirement: **N/A**	[ ] Rule [ ] Other
4. Monitor Information: **N/A** Manufacturer: **N/A** Model Number: **N/A**	Serial Number: **N/A**
5. Installation Date: **N/A**	6. Performance Specification Test Date: **N/A**
7. Continuous Monitor Comment (limit to 200 characters): **N/A**	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] 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 [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: **N/A**

Emissions Unit Information Section 5 of 7
[No. I.D.: Fugitive Emissions—Enclosed Building]

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)

[ ] 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, 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.

[X] 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):
Fugitive Emissions—Enclosed Building

3. Emissions Unit Identification Number:
ID:
[X] No ID
[ ] ID Unknown

4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **~1998**	6. Emissions Unit Major Group SIC Code: **14**

7. Emissions Unit Comment: (Limit to 500 Characters)
Fugitive emissions from various sources within the enclosed building.

Emissions Unit Information Section 5 of 7
[No. I.D.: Fugitive Emissions—Enclosed Building]
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: **N/A**	Model Number: **N/A**	
2. Generator Nameplate Rating:	**N/A** MW	
3. Incinerator Information: **N/A**		
Dwell Temperature:		**N/A** °F
Dwell Time:		**N/A** seconds
Incinerator Afterburner Temperature:		**N/A**°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	**N/A** mmBtu/hr	
2. Maximum Incineration Rate:	**N/A** lb/hr	**N/A** tons/day
3. Maximum Process or Throughput Rate: **35 TPH Wet Limestone**		
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):

- **Maximum Process Rate:**

Maximum throughput of limestone drying and processing facility is 35 tph (monthly average basis) and 306,600 tons per 12 consecutive month period.

Emissions Unit Information Section 5 of 7
[No. I.D.: Fugitive Emissions—Enclosed Building]

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **N/A**	2. Emission Point Type Code: **4**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **Fugitive emissions from various sources in enclosed building.**		
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: **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: **~79** feet	
13. Emission Point UTM Coordinates: **Not Determined** Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **The highest point of the building is approximately 79 feet tall and is located towards the middle of the building. The west end of the building stands ~45 ft tall, while the east end of the building stands ~36 feet tall.**		

Emissions Unit Information Section 5 of 7
[No. I.D.: Fugitive Emissions—Enclosed Building]

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ Mineral Products/ Stone Quarrying—Processing/ General**		
2. Source Classification Code (SCC): **3-05-020-99**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **35 (Wet Basis)**	5. Maximum Annual Rate: **306,600 (Wet Basis)**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **N/A**
10. Segment Comment (limit to 200 characters): **None.**		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**	2. Pollutant Regulatory Code: **EL**	
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/D**
6. Potential Emissions: **0.61** lb/hour **2.67** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.0054 lb PM/ton (tertiary crushing) 0.0030 lb PM/ton (uncontrolled conveyor transfer point) 0.0030 lb PM/ton (feed bin to feed table)** Reference: **AP-42, Table 11.19.2-2 (tertiary crushing, uncontrolled conveyor transfer point)** **FIRE 6.25**		9. Emissions Method Code: **3**

10. Calculation of Emissions (limit to 600 characters):

- **For crusher:**

(0.0054 lb PM/ton) x (35 tons/hour) = 0.19 lb PM/hr
(0.19 lb PM/hr) x (8760 hr/yr) x (1 ton/2000 lbs) = 0.83 tons PM/yr

- **For conveyor belts:**

2 x (0.0030 lb PM/ton) x (35 tons/hour) = 0.21 lb PM/hr
(0.21 lb PM/hr) x (8760 hr/yr) x (1 ton/2000 lbs) = 0.92 tons PM/yr

- **For feed bin to feed table:**

(0.003 lb PM/ton) x (35 tons/hr) = 0.21 lb PM/hr ~~0.105~~
(0.21 lb PM/hr) x (8760 hr/yr) x (1 ton/2000 lbs) = 0.92 tons PM/yr ~~0.4599~~

11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor for uncontrolled tertiary crushing was used to provide a conservative estimate for particulate emissions from the crusher. The emission factor for screen/convey/handling was used as the emission factor for the feed bin to feed table.**

Allowable Emissions Allowable Emissions **N/A** of **N/A**

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

Emissions Unit Information Section 5 of 7
[No I.D.: Fugitive Emissions—Enclosed Building]

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: **VE00**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **0%** Exceptional Conditions: **0%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 22**	
5. Visible Emissions Comment (limit to 200 characters): **Per 40 CFR 60.672(e)**	

Visible Emissions Limitation: Visible Emissions Limitation N/A of N/A

1. Visible Emissions Subtype: **N/A**	2. Basis for Allowable Opacity: **N/A** [ ] Rule [ ] Other
3. Requested Allowable Opacity: **N/A** Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **N/A**	
5. Visible Emissions Comment (limit to 200 characters): **N/A**	

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

Continuous Monitoring System: Continuous Monitor **N/A** of **N/A**

1. Parameter Code: **N/A**	2. Pollutant(s): **N/A**
3. CMS Requirement: **N/A**	[ ] Rule [ ] Other
4. Monitor Information: **N/A** Manufacturer: **N/A** Model Number: **N/A**	Serial Number: **N/A**
5. Installation Date: **N/A**	6. Performance Specification Test Date: **N/A**
7. Continuous Monitor Comment (limit to 200 characters): **N/A**	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] 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 [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: **N/A**

Emissions Unit Information Section 6 of 7
[No I.D.: Fugitive Emissions—Outside Building]

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)

[ ] 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, 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.

[X] 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):
Fugitive Emissions—Outside Building

3. Emissions Unit Identification Number:
ID:
[X] No ID
[ ] ID Unknown

4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **~1998**	6. Emissions Unit Major Group SIC Code: **14**

7. Emissions Unit Comment: (Limit to 500 Characters)
Fugitive Emissions from outside of the building.

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: **N/A** Model Number: **N/A**

2. Generator Nameplate Rating: **N/A** MW

3. Incinerator Information: **N/A**
Dwell Temperature: **N/A** °F
Dwell Time: **N/A** seconds
Incinerator Afterburner Temperature: **N/A**°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: **N/A** mmBtu/hr

2. Maximum Incineration Rate: **N/A** lb/hr **N/A** tons/day

3. Maximum Process or Throughput Rate: **120 TPH Wet Limestone**

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):

Maximum throughput of limestone drying and processing facility is 35 tph (monthly average basis); therefore the maximum annual process rate is 306,600 tons per 12 consecutive month period.

Emissions Unit Information Section 6 of 7
[No I.D.: Fugitive Emissions—Outside Building]

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **N/A**	2. Emission Point Type Code: **4**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **Load Hopper (LH-1), Belt Conveyor (BC-1), Crusher (CR-01—Proposed new), Feed Bin (BN-1)**		
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: **N/A** °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: **~71** feet	
13. Emission Point UTM Coordinates: **Not Determined** Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **Non-stack height is the height of the crusher from ground level.**		

Emissions Unit Information Section 6 of 7
[No I.D.: Fugitive Emissions—Outside Building]

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ Mineral Products/ Stone Quarrying—Processing/ General**		
2. Source Classification Code (SCC): **3-05-020-99**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **120 (Wet Basis)**	5. Maximum Annual Rate: **306,600 (Wet Basis)**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **N/A**
10. Segment Comment (limit to 200 characters): **None.**		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**		2. Pollutant Regulatory Code: **EL**
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/D**
6. Potential Emissions: **2.09** lb/hour **2.66** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.0054 lb PM/ton (tertiary crushing) 0.0030 lb PM/ton (front end loader, hopper, uncontrolled conveyor transfer point, feed bin)** Reference: **AP-42, Table 11.19.2-2 (tertiary crushing, uncontrolled conveyor transfer point)** **FIRE 6.25**		9. Emissions Method Code: **3**

10. Calculation of Emissions (limit to 600 characters):
For Crusher to feed bin: — 10 Bobtrack
(0.0054 lb PM/ton) x (120 tons/hr) = 0.65 lb PM/hr
(0.0054 lb PM/ton) x (306,600 tons/yr) x (1 ton/2000 lbs) = 0.83tons PM/yr

For front end loader to hopper, hopper to belt conveyor, belt conveyor to feed bin, belt conveyor to crusher:
4 x (0.0030 lb PM/ton) x (120 tons/hr) = 1.44 lbs PM/hr
4 x (0.0030 lb PM/ton) x (306,600 tons/yr) x (1 ton/2000 lbs)= 1.83 tons PM/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor for uncontrolled tertiary crushing was used to provide a conservative estimate for particulate emissions from the crusher. The emission factor for screen/convey/handling was used as the emission factor for the feed bin, hopper, and front end loader.**

Allowable Emissions Allowable Emissions **N/A** of **N/A**

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

Emissions Unit Information Section 6 of 7
[No ID: Fugitive Emissions—Outside Building]

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: **VE10**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **10%** Exceptional Conditions: **10%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 40 CFR 60.672, this emissions limit applies to various fugitive emissions from equipment, except for crushers, subject to 40 CFR 60, Subpart OOO outside of the enclosed building.**	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: **VE15**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **15%** Exceptional Conditions: **15%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 40 CFR 60.672, this emissions limit applies to crushers, subject to 40 CFR 60, Subpart OOO outside of the enclosed building.**	

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

Continuous Monitoring System: Continuous Monitor **N/A** of **N/A**

1. Parameter Code: **N/A**	2. Pollutant(s): **N/A**
3. CMS Requirement: **N/A**	[ ] Rule [ ] Other
4. Monitor Information: **N/A** Manufacturer: **N/A** Model Number: **N/A**	Serial Number: **N/A**
5. Installation Date: **N/A**	6. Performance Specification Test Date: **N/A**
7. Continuous Monitor Comment (limit to 200 characters): **N/A**	

Emissions Unit Information Section 6 of 7
[No ID: Fugitive Emissions—Outside Building]

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] 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 [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: **N/A**

Emissions Unit Information Section 7 of 7
[No ID: Truck Loading Activities]

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)

[X] 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, 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.

[ ] 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):
Truck Loading Activities

3. Emissions Unit Identification Number:
ID:
[X] No ID
[ ] ID Unknown

4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **~1998**	6. Emissions Unit Major Group SIC Code: **14**

7. Emissions Unit Comment: (Limit to 500 Characters)
Emissions from truck loading activities. Emissions are controlled by dust collector 2 (DC-2)

Emissions Unit Information Section 7 of 7
[No ID: Truck Loading Activities]

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): **Fabric Filter—Medium Temperature (180°F < T < 250°F)**
2. Control Device or Method Code(s): **017**

Emissions Unit Details

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

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	**N/A** mmBtu/hr	
2. Maximum Incineration Rate:	**N/A** lb/hr	**N/A** tons/day
3. Maximum Process or Throughput Rate: **108 TPH product**		
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):

- **Maximum Process Rate:**

Maximum process or throughput of truck loading activities is 108 tph of 306,600 tons per 12 consecutive month period.

Emissions Unit Information Section 7 of 7
[No ID: Truck Loading Activities]

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **FA-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): **Fan outlet from dust collector 2 (DC-2)**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **N/A**		
5. Discharge Type Code: **H**	6. Stack Height: **N/A** feet	7. Exit Diameter: **N/A** feet
8. Exit Temperature: **N/A** °F	9. Actual Volumetric Flow Rate: **12,800** acfm	10. Water Vapor: **~2** %
11. Maximum Dry Standard Flow Rate: **10,035** dscfm	12. Nonstack Emission Point Height: **~14** feet	
13. Emission Point UTM Coordinates: **Not Determined** Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **12,800 acfm x (1-0.02) x[(68 + 460)/(200 + 460)] = 10,035 dscfm** **Also see EU 003: Screening/Material Handling.**		

Emissions Unit Information Section 7 of 7
[No ID: Truck Loading Activities]

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ Mineral Products/ Stone Quarrying—Processing/ Truck Unloading**		
2. Source Classification Code (SCC): **3-05-020-31**	3. SCC Units: **Tons Product**	
4. Maximum Hourly Rate: **108**	5. Maximum Annual Rate: **306,600**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **N/A**
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**	2. Pollutant Regulatory Code: **EL**	
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/D**
6. Potential Emissions: **See EU 003** lb/hour **See EU 003** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.022 gr/dscf** Reference: **40 CFR 60.672(a)**		9. Emissions Method Code: **5**
10. Calculation of Emissions (limit to 600 characters):		
11. Pollutant Potential Emissions Comment (limit to 200 characters): **Since the emissions from EU 003 and truck loading operations both are collected from DC-2**		

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **Rule**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **See allowable emission information in EU 003.**	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): **Since the emissions from EU 003 and truck loading operations both are collected from DC-2**	

Emissions Unit Inform. on Section 7 of 7
[No ID: Truck Loading Activities]

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: **VE07**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **7%** Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **40 CFR 60.672(a)—enclosed truck loading station.**	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: **VE10**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **10%** Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 40 CFR 60.672(b)—Enclosed truck loading station.**	

Emissions Unit Inform. on Section 7 of 7
[No ID: Truck Loading Activities]

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

Continuous Monitoring System: Continuous Monitor N/A of N/A

1. Parameter Code: **N/A**	2. Pollutant(s): **N/A**
3. CMS Requirement: **N/A**	[ ] Rule [ ] Other
4. Monitor Information: **N/A** Manufacturer: **N/A** Model Number: **N/A**	Serial Number: **N/A**
5. Installation Date: **N/A**	6. Performance Specification Test Date: **N/A**
7. Continuous Monitor Comment (limit to 200 characters): **N/A**	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
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8. Supplemental Information for Construction Permit Application [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: **N/A**

Consolidated Minerals, Inc.
Center Hill Hi-Cal Plant
Facility ID 1190018

Air Construction Permit Application

Supporting Documentation

EU002:	Dust Collector 1 for Dryers
EU003:	Dust Collector 2 for Screening and Milling Operations
EU004:	Dust Collector 3 for Milling Operations
EU005:	Dust Collector 4 for Silos
No I.D:	Fugitive Emissions—Enclosed Building
No I.D.:	Fugitive Emissions—Outside Building
No I.D.:	Truck Loading Activities

PREPARED BY:
KOOGLER & ASSOCIATES, INC.

REVISION: October 16, 2005

Table of Contents

Tables & Figures

Process Description

Limestone is dried and processed to produce crushed stone meeting various specifications. Processing operations include hauling, drying, crushing, screening, conveying, stockpiling, and product handling.

Drying Operations

Stockpiled material is loaded into the load hopper (LH-1). The material from the load hopper (LH-1) is then placed on a belt conveyor (BC-1). The material on the belt conveyor (BC-1) is either deposited into a feed bin (BN-1) or crushed by a crusher (CR-01) and then deposited into a feed bin (BN-1); however, these operations do not occur simultaneously.

From the feed bin (BN-1), the material is fed into the table feeder (TF-1) and loaded into the dryer (DR-1) via hopper for drying processes. The emissions from the dryer are captured by a dust collector (DC-1). Particulate matter collected in the dryer's dust collector (DC-1) is sent to the product line (LL-1) via screw conveyor (SC-1). The dust collector's gas stream is exhausted into the atmosphere (ST-1). The product line (LL-1) from the dust collector (DC-1) is blown (BL-1) into a silo (SS-3) for truck load out (LS-1).

The process flow diagram for drying operations can be seen in Figure 1. An equipment list can be seen in Table 1.

Screening Operations

Dried material from the dryer (DR-1), along with oversized material from the shaker screen (SN-1) that is screw conveyed (SC-3) and crushed via crusher (CR-02), are placed on a screw conveyor (SC-2). The screw conveyor (SC-2) deposits the material into a bucket elevator (BE-1). There is a particulate picku up point at the bottom of bucket elevator 1 (BE-1). The bucket elevator (BE-1) then delivers the material to the shaker screen (SN-1).

The shaker screen (SN-1) is a triple-deck screening system. Oversized material that does not pass through the first screen from the shaker screen (SN-1) either goes to a screw conveyor (SC-3) and gets crushed via crusher (CR-02) or is stored in a feed bin (BN-2). If the oversized material is sent to the crusher, it gets sent back to the shaker screen (SN-1) via screw conveyor (SC-2) and bucket elevator (BE-1). If the oversized material is sent to the feed bin (BN-2), then the material is fed to a belt conveyor (BC-3) and conveyed to a rotary feeder (VF-1) for the mill.

Material that does not pass the second screen of the shaker screen (SN-1) is either deposited in a feed bin (BN-2) with some of the oversized material or deposited on a belt conveyor (BC-4). If this material is deposited into the feed bin (BN-2), then the material is fed to a belt conveyor (BC-3) and conveyed to a rotary feeder (VF-1) for the mill. If the material is deposited onto a belt conveyor (BC-4), then it is dropped into a bucket elevator (BE-2) which deposits material into a silo (SS-1) for truck load out (LS-1).

Material that does not pass the third screen of the shaker screen (SN-1) is deposited into the product line (LL-3) and blown (BL-5) into a silo (SS-4) for truck load out (LS-1) or can also go to the feed bin (BN-2).

Material that passes all three screens of the shaker screen (SN-1) is deposited into the feed bin (BN-2) and fed to a belt conveyor (BC-3) and conveyed to a rotary feeder (VF-1)

Particulate matter from the screw conveyor (SC-2), bucket elevator (BE-2), belt conveyors (BC-3 and BC-4), feed bin (BN-2), and shaker screen (SN-1) are captured by a dust collector (DC-2). There is a particulate pick up point at the end of belt conveyor 4 (BC-4) that sends the particulates to dust collector 2 (DC-2). Particulate matter captured in the dust collector (DC-2) forms a product line (LL-2) and is blown into a silo (SS-3) for truck load out (LS-1). The dust collector's (DC-2) gas stream is exhausted into the atmosphere (FA-2).

The process flow diagram for screening operations can be seen in Figures 1 and 2. An equipment list can be seen in Table 1.

Crushing/Milling Operations

There are two crushers (CR-01, CR-02) and a Raymond Mill (RM-1) that comprise the crushing operations at this facility. Please refer to the drying and screening operation sections for process descriptions for Crusher 1 (CR-01) and Crusher 2 (CR-02). The process description for the Raymond Mill can be seen below.

Material is conveyed via belt conveyor (BC-3) to a variable speed rotary feeder (VF-1) for the Raymond Mill. The rotary feeder (VF-1) feeds the material into the Raymond Mill (RM-1). Particulate matter from the Raymond Mill is initially captured by a cyclone (CY-1). The cyclone (CY-1) recovers some of the material and sends it back to the Raymond Mill (RM-1) via fan (MF-1). The material in the cyclone (CY-1) is either recovered and sent back to the Raymond Mill (RM-1) via mill fan (MF-1) or enters the product line (LL-4) and is blown (BL-4) into silos (SS-2 and SS-3) for truck load out (LS-1). Airflow from MF-1 may also go to DC-2. Silos SS-2 and SS-3 do not receive material simultaneously from the Raymond Mill/DC-3.

Particulate matter from the belt conveyor (BC-3) is collected in Dust Collector 2 (DC-2). Particulate matter captured in the dust collector (DC-2) forms a product line (LL-2) and is blown into a silo (SS-3) for truck load out (LS-1). The dust collector's (DC-2) gas stream is exhausted into the atmosphere (FA-2).

Particulate matter from the mill fan (MF-1) is deposited in Dust Collector 3 (DC-3). Particulate matter captured in the dust collector (DC-3) enters the product line (LL-4) and is blown (BL-4) into a silo (SS-2 or SS-3) for truck load out (LS-1). The dust collector's (DC-3) gas stream is exhausted into the atmosphere (FA-3).

The process flow diagram for crushing/milling operations can be seen in Figures 1 and 2. An equipment list can be seen in Table 1.

Product Handling Operations

Product Handling Operations consist of four (4) silos (SS-1, SS-2, SS-3, and SS-4), screw conveyors (SC-4, SC-5), a bucket elevator (BE-2), and a load out spout (LS-1). The following are process descriptions.

Bucket Elevator and Loadout

Particulate matter emissions from the bucket elevator and load out spout (LS-1) are collected by a dust collector (DC-2). Particulate matter captured in the dust collector (DC-2) forms a product line (LL-2) and is blown into another silo (SS-3) for truck load out (LS-1). The dust collector's (DC-2) gas stream is exhausted into the atmosphere (FA-2).

Silo SS-1

Material from a bucket elevator (BE-2) is transported into a silo (SS-1). The material is then screw conveyed (SC-5) to a load out spout (LS-1) for truck loading. Particulate matter from the silo (SS-1) is sent to another silo (SS-2) via piping.

Silo SS-2

Part of Product Line 4 (LL-4) is blown (BL-4) into a silo (SS-2) from milling operations. The material is then screw conveyed (SC-5) to a load out spout (LS-1) for truck loading. Particulate matter from the silo (SS-2) is sent to another silo (SS-3) via piping.

Silo SS-3

Product Lines 1, 2, and part of 4 (LL-1, LL-2, LL-4) are blown (BL-1, BL-2, BL-4) into a silo (SS-3). In addition, particulate matter from Dust Collector 4 (DC-4) is deposited into the silo (SS-3) as well. The material is then screw conveyed (SC-5) to a load out spout (LS-1) for truck loading.

Particulate matter from the silo (SS-3) is collected by a dust collector (DC-4) and is returned back into the silo (SS-3) for material recovery. The dust collector's (DC-4) gas stream is exhausted into the atmosphere (FA-4).

Silo SS-4

Product line 2 (LL-3) is blown (BL-5) into a silo (SS-4). The material is then screw conveyed (SC-4) to another screw conveyor (SC-5), which leads to the load

out spout (LS-1) for truck loading. Particulate matter from the silo (SS-4) is sent to another silo (SS-2) via piping.

Truck Loading Activities

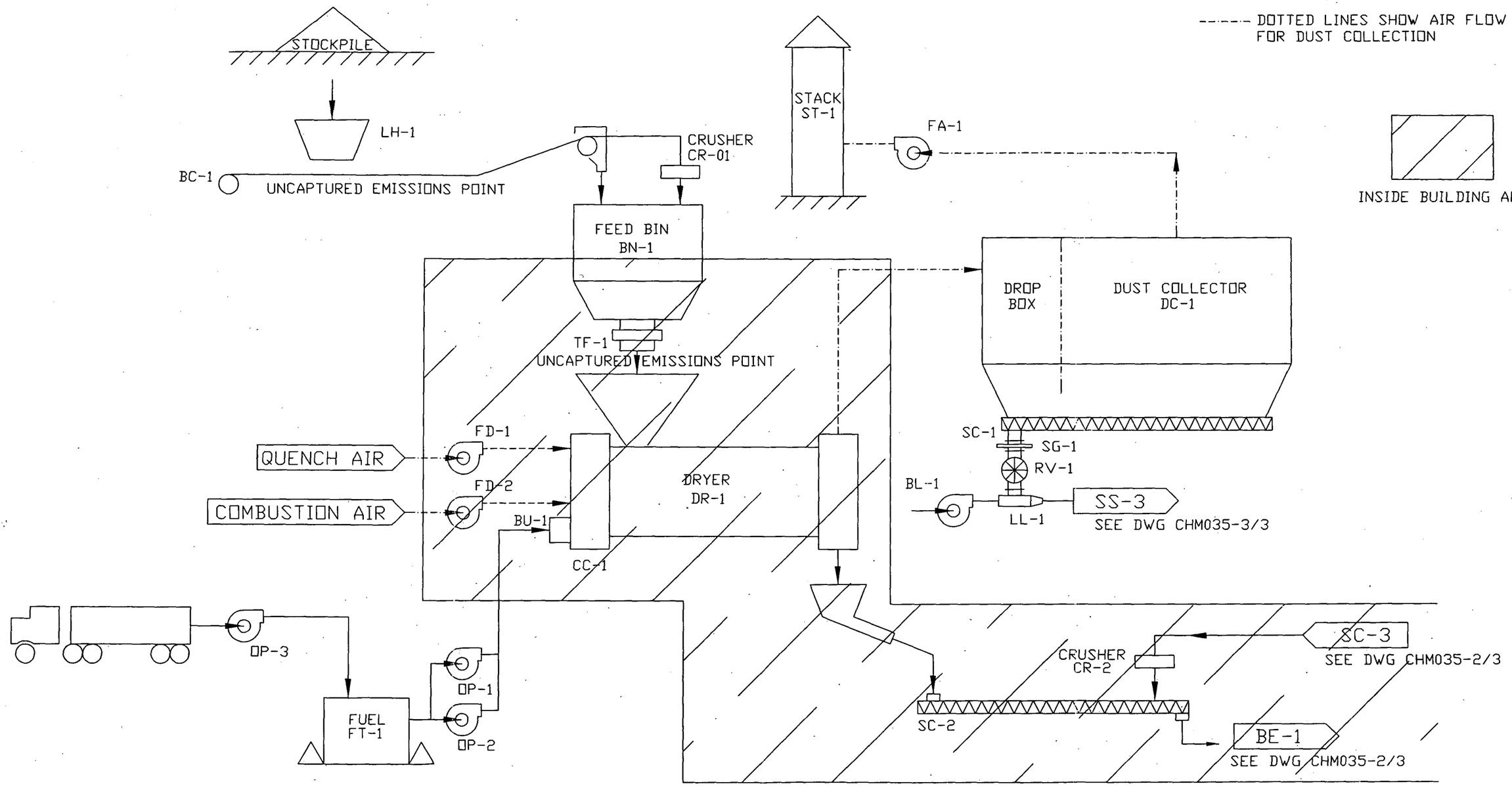
Material from the silos are screw conveyed to the load out spout (LS-1). Per the request of clients, dust oil is used on granular products. Multiple silos cannot operate simultaneously. Emissions from the silos and truck load out spout (LS-1) are collected by a baghouse (DC-2). The material is then vented to the atmosphere (FA-2).

A process flow diagram for product handling operations can be seen in Figure 3. An equipment list can be seen in Table 1.

Table 1: Equipment List

Item	Description	Subject 40 CFR 60, Subpart OOO
LL-1, 2, 3, & 4	Product line	No
SS-1, 2, 3, & 4	Silos[1]	Yes
CV-1, 2, & 3	Control rotary valves for silos	No
FA-1, 2, 3, & 4	Exhaust fans for dust collectors	No
SG-1, 2, & 3	Service gates for dust collector rotary valves	No
SG-4	Service gate for cyclone	No
SG-5, 6, & 7	Service gates for silos	No
LS-1	Load out spout	No
PS-1	Truck scale	No
RV-1, 2, & 3	Rotary valves for dust collectors	No
RV-4	Rotary valve for cyclone	No
RV-5	Rotary valve for shaker screen	No
BL-1, 2	Blower for dust collector #1 & 2	No
BL-4	Blower for mill	No
BL-5	Blower from shaker screen to silo #4	No
RM-1	Raymond Mill[2]	No
MF-1	Fan for Raymond Mill	No
VF-1	Variable speed rotary feeder to mill	No
BC-3	Belt conveyor from feed bin to mill	Yes
BN-2	Feed bin #2	Yes
SC-4	Screw Conveyor #4	No
SN-1	Shaker Screen	Yes
BE-1, 2	Bucket Elevators 1 &2	Yes
BC-4	Belt Conveyor #4	Yes
DC-1, 2, 3, &4	Dust Collectors Nos. 1, 2, 3, & 4	DC-1 & 3—No DC-2 & 4—Yes
CR-1, 2	Crushers Nos. 1 & 2	Yes
DR-1	Dryer	No
CC-1	Combustion Chamber	No
FD-1	Quench air fan	No
FD-2	Combustion air fan	No
SC-2	Screw Conveyor #2	No
BN-1	Feed Bin #1	Yes
TF-1	Table feeder	No
BC-1	Belt Conveyor #1	Yes
LH-1	Load Hopper for BC-1	Yes
BU-1	Burner for dryer	No
OP-1 & 2	Oil pumps for dryer	No
OP-3	Oil pump to load fuel tank	No
SC-1	Screw Conveyor #1	No
CY-1	Cyclone	No
SC-5	Screw Conveyor #5 from silo to load spout	No
SC-3	Screw Conveyor #3 from shaker to crusher #2	No

[1] Silos 1, 2, & 3 were constructed/reconstructed/modified prior to 8/31/1983.
[2] Raymond Mill was constructed/reconstructed/modified prior to 8/31/1983.



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				O	DESIGN PROCESS CHANGE	06/07/05	RS
				N	DESIGN PROCESS CHANGE	10/22/98	JMC
				M	DESIGN PROCESS CHANGE	10/14/98	JMC
				K	DESIGN PROCESS CHANGE	7/15/98	JMC
				J	DESIGN PROCESS CHANGE	9/3/97	JMC
REFERENCE DRAWINGS		DATE	ISSUED TO				

FLORIDA CRUSHED STONE

LEESBURG FLORIDA

DATE	APPROVED BY	CHECKED BY	DRAWN BY
6/10/96			J.M.C.
SCALE N.T.C.			

PROCESS FLOW DIAGRAM
LIMESTONE DRYING & GRINDING

CENTER HILL
FLORIDA

DRAWING NUMBER
CHM035-1/3

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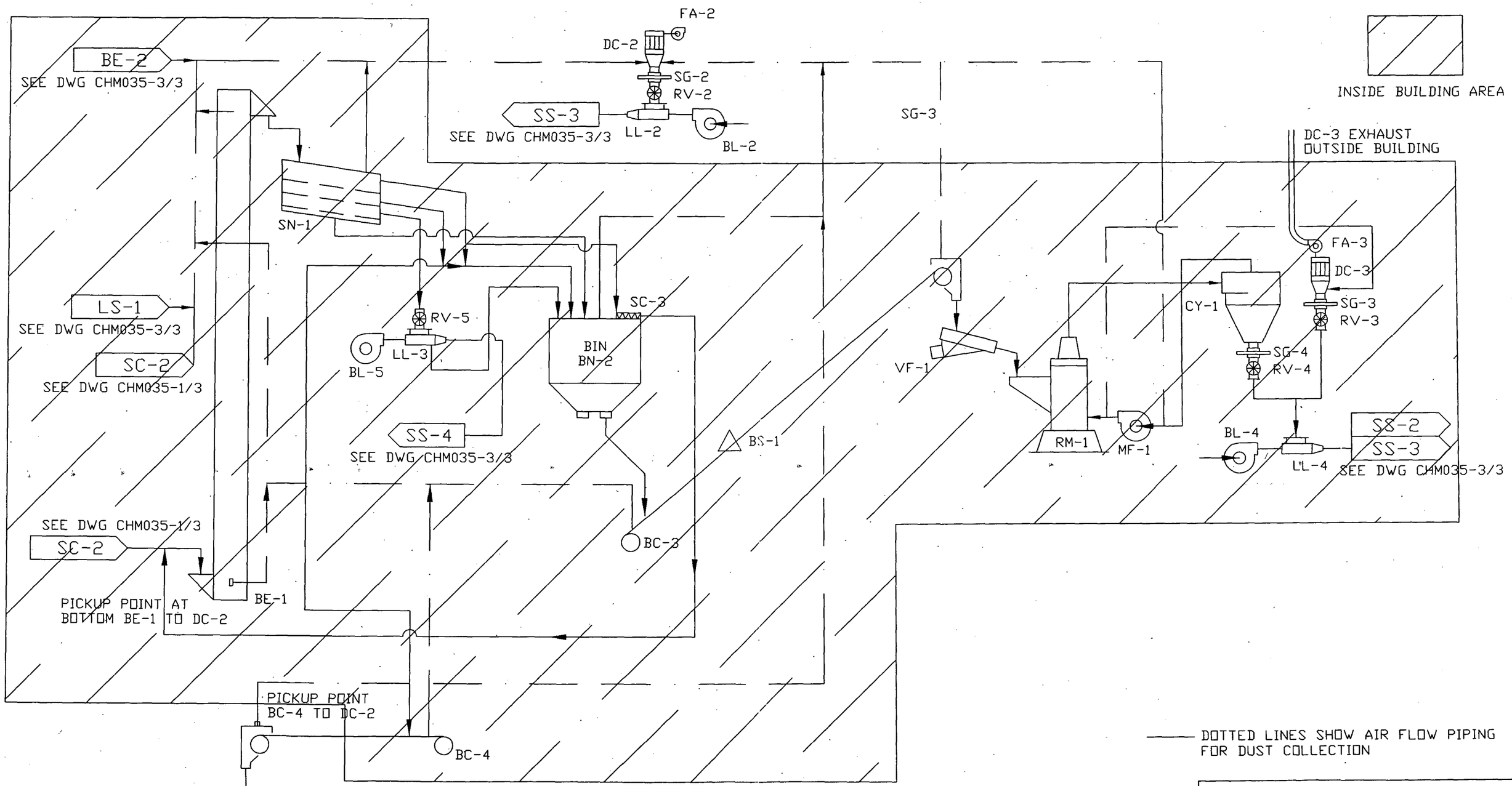

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				O	DESIGN PROCESS CHANGE	06/07/05	RS
				N	DESIGN PROCESS CHANGE	10/22/98	JMC
				M	DESIGN PROCESS CHANGE	10/14/98	JMC
				k	DESIGN PROCESS CHANGE	7/16/98	JMC
				J	DESIGN PROCESS CHANGE	9/3/97	JMC
REFERENCE DRAWINGS		DATE	ISSUED TO				

FLORIDA CRUSHED STONE

LEESBURG FLORIDA

DATE	APPROVED BY	CHECKED BY	DRAWN BY
6/10/96			J.M.C.
SCALE N.T.C.			

PROCESS FLOW DIAGRAM
LIMESTONE DRYING & GRINDING

CENTER HILL
FLORIDA

DRAWING NUMBER
CHM035-2/3

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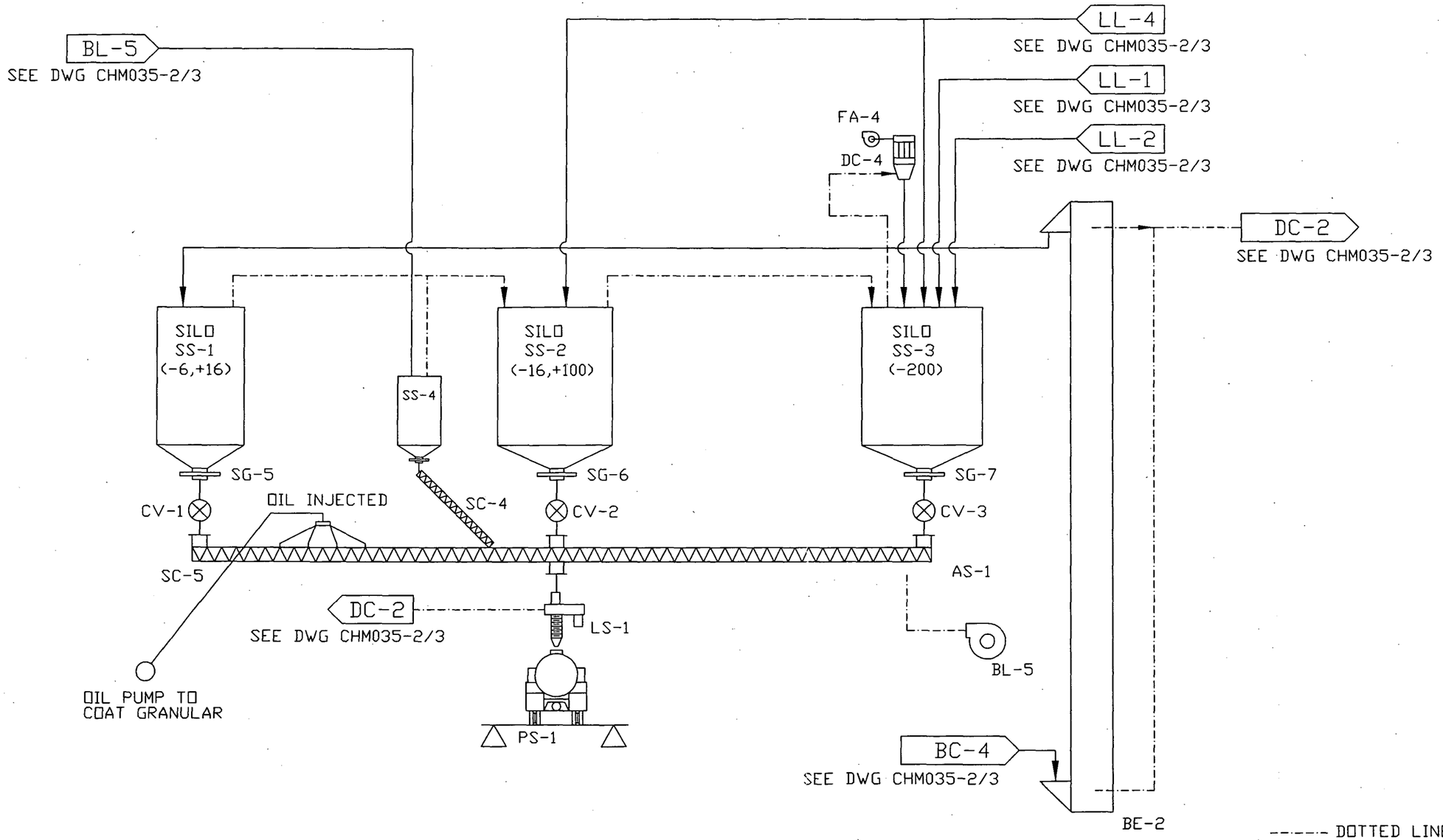

------ DOTTED LINES SHOW AIR FLOW PIPING FOR AIR SLIDES

DESCRIPTION	DRAWING No			NO.	REVISION	DATE	BY
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				P	DESIGN PROCESS CHANGE	07/28/05	RS
				O	DESIGN PROCESS CHANGE	06/07/05	RS
				N	DESIGN PROCESS CHANGE	10/22/98	JMC
				M	DESIGN PROCESS CHANGE	10/14/98	JMC
				K	DESIGN PROCESS CHANGE	7/15/98	JMC
				J	DESIGN PROCESS CHANGE	9/3/97	JMC
REFERENCE DRAWINGS		DATE	ISSUED TO				

FLORIDA CRUSHED STONE

LEESBURG FLORIDA

DATE	APPROVED BY	CHECKED BY	DRAWN BY
1/13/97			J.M.C.
SCALE N.T.C.			

PROCESS FLOW DIAGRAM
LIMESTONE DRYING & GRINDING

CENTER HILL
FLORIDA

DRAWING NUMBER
CHM035-3/3

0

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: **Consolidated Minerals, Inc.**	
2. Site Name: **Center Hill Hi-Cal Plant**	
3. Facility Identification Number: **1190018** [ ] Unknown	
4. Facility Location: Street Address or Other Locator: **State Road 48 West** City: **Center Hill** County: **Sumter** Zip Code: **33514**	
5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [X] Yes [ ] No

Application Contact

1. Name and Title of Application Contact: **Veronica N. Sgro, E.I.**
2. Application Contact Mailing Address: Organization/Firm: **Koogler & Associates, Inc.** Street Address: **4014 NW 13th Street** City: **Gainesville** State: **FL** Zip Code: **32609**
3. Application Contact Telephone Numbers: Telephone: **(352) 377-5822** Fax: **(352) 377-7158**

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	8-10-05
2. Permit Number:	1190018-012-AC

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:_____

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)

[X] 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: **Kyle Garrett, Vice President**

2. Owner/Authorized Representative Mailing Address:
   Organization/Firm: **Consolidated Minerals, Inc.**
   Street Address: **1616 S. 14th Street**
   City: **Leesburg** State: **FL** Zip Code: **34748-0180**

3. Owner/Authorized Representative Telephone Numbers:
   Telephone: **(352) 365-6522** Fax: **(352) 455-5553**

4. Owner/Authorized Representative Statement:

   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.*

   Signature 8.9.05 Date

   Please Sign & Date

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: **Steven C. Cullen, P.E.**
   Registration Number: **45188**

2. Professional Engineer Mailing Address:
   Organization/Firm: **Koogler & Associates, Inc.**
   Street Address: **4014 NW 13th Street**
   City: **Gainesville** State: **FL** Zip Code: **32609**

3. Professional Engineer Telephone Numbers:
   Telephone: **(352) 377-5822** Fax: **(352) 377-7158**

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 [X], 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

8/3/2005
Date

(seal)

* Attach any exception to certification statement.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
002	Dust Collector No. 1 for Dryer	AC1C	$4500.00
003	Dust Collector No. 2 for Screening/ Milling Operations	AC1E	$1000.00
004	Dust Collector No. 3 for Milling Operations		
005	Dust Collector No. 4 for Silos		
No I.D.	Fugitive Emissions—Enclosed Building	AC1F	$250.00
No I.D.	Fugitive Emissions—Outside Building		

Application Processing Fee

Check one: [X] Attached - Amount: $5,750.00 [ ] Not Applicable

Construction/Modification Information

1. Description of Proposed Project or Alterations:

Project is a proposed limestone drying and processing plant in Sumter County. Limestone is dried and processed to produce crushed stone meeting various specifications. Processing operations include hauling, drying, crushing, screening, conveying, stockpiling, and product handling. A revised process flow diagram and description are attached to this application.

This air construction permit application addresses the following issues:

- **Dryer Potential Emissions: Existing permitted dryer potential emissions are to be calculated using statistical analysis of previous stack test data.**
- **Fugitive Emissions—Enclosed Building: Request that the Department includes emission unit entitled "Fugitive Emissions--Enclosed Building" in the Air Permit.**
- **Fugitive Emissions—Outside Building: Request that the Department includes emission unit entitled "Fugitive Emissions—Outside Building" in Air Permit.**
- **Maximum Throughput: Increase the maximum throughput from 30 tons /hr wet limestone (monthly average basis) and 262,800 tons/12-month consecutive period to 35 tons/hr wet limestone (monthly average basis) and 306,600 tons/12 consecutive month period.**

2. Projected or Actual Date of Commencement of Construction: **N/A**

3. Projected Date of Completion of Construction: **N/A**

Application Comment

Dust Collector 1 for Dryer: The greatest potential emission for Dust Collector 1, which controls the dryer, is 98.25 tpy of SO_2. Since the potential emissions are greater than 50 tpy but less than 100 tpy, the processing fee for Dust Collector 1, which controls the dryer is $4,500.00 per 62-4.050(4)(a)(2)(b), F.A.C.

Dust Collectors 2 - 4: Dust Collectors 2- 4 are applicable for a similar emissions unit fee. The greatest potential emission from Dust Collectors 2 – 4 is 13.41 tpy of PM (EU003 = 7.53 tpy; EU004 = 2.35 tpy; EU005 = 3.53 tpy). Since the potential emissions are greater than 5 tpy but less than 25 tpy, the processing fee for these similar emissions units is $1000.00 per 62-4.050(4)(1)(2)(d), F.A.C.

Fugitive Emissions-Enclosed Building and Outside Building: Fugitive emissions for the enclosed building and outside the building are applicable for similar emissions unit fee. The greatest potential emission from these fugitive emissions is 1.66 tpy of PM (Fugitive Emissions—Enclosed Building = 0.83 tpy; Fugitive Emissions—Outside Building = 0.83 tpy). Since the potential emissions are less than 5 tpy, the processing fee for these similar emissions units is $250.00 per 62-4.050(4)(1)(2)(e), F.A.C.

Exemptions: This application requests that the fuel tank for No. 4 fuel is exempt from permitting action, as the emissions from the tank are assumed to be minimal.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone: **17** East (km): **401.5** North (km): **3169.5**			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): **28/39/02** Longitude (DD/MM/SS): **82/00/28**			
3. Governmental Facility Code: **0**	4. Facility Status Code: **A**	5. Facility Major Group SIC Code: **14**	6. Facility SIC(s): **1422**
7. Facility Comment (limit to 500 characters): **None.**			

Facility Contact

1. Name and Title of Facility Contact: **Walter Merritt, Plant Manager**
2. Facility Contact Mailing Address: Organization/Firm: **Consolidated Minerals, Inc.** Street Address: **530 West Kings Highway** City: **Center Hill** State: **Florida** Zip Code: **33514**
3. Facility Contact Telephone Numbers: Telephone: **(352) 569-0328** Fax: **(352) 568-1515**

Facility Regulatory Classifications

Check all that apply:

1. [ ] Small Business Stationary Source?	[X] Unknown
2. [ ] Synthetic Non-Title V Source?	
3. [ ] Synthetic Minor Source of Pollutants Other than HAPs?	
4. [ ] Synthetic Minor Source of HAPs?	
5. [X] One or More Emissions Units Subject to NSPS?	
6. [ ] One or More Emission Units Subject to NESHAP Recordkeeping or Reporting?	
7. Facility Regulatory Classifications Comment (limit to 200 characters): **40 CFR 60, Subpart OOO—Standards of Performance for Nonmetallic Mineral Processing Plants.** **Please refer to attached process flow diagram and description in the attached supporting documentation (Attachment 1) for the list of equipment subject to 40 CFR 60, Subpart OOO.**	

Rule Applicability Analysis

- **40 CFR 60, Subpart OOO—Standards of Performance for Nonmetallic Mineral Processing Plants.**
- **62-4, F.A.C.**
- **62-210, F.A.C.**
- **62-296, F.A.C.**
- **62-297, F.A.C.**

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap lb/hour	tons/year	4. Basis for Emissions Cap	5. Pollutant Comment
PM	**B**	**N/A**	**N/A**	**N/A**	**N/A**
SO_2	**SM**	**N/A**	**N/A**	**N/A**	**N/A**

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location: [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested **Department has on file.**
2. Facility Plot Plan: [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested **Department has on file.**
3. Process Flow Diagram(s): [X] Attached, Document ID: **Supporting Documentation** [] Not Applicable [] Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Supplemental Information for Construction Permit Application: [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
6. Supplemental Requirements Comment: **Supporting documentation includes process flow diagram with process descriptions.**

Emissions Unit Information Section 1 of 6
[E.U. 002: Dust Collector No. 1 (DC-1) for Dryer]

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)

[ ] 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).

[X] 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.

[ ] 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):
Dust Collector No. 1 (DC-1) for Dryer

3. Emissions Unit Identification Number:
ID: **002**
[ ] No ID
[ ] ID Unknown

4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **~1998**	6. Emissions Unit Major Group SIC Code: **14**

7. Emissions Unit Comment: (Limit to 500 Characters)
Dust Collector No. 1 (DC-1) controls particulate matter emissions from dryer.

Emissions Unit Information Section 1 of 6
[E.U. 002: Dust Collector No. 1 (DC-1) for Dryer]
Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method):
Fabric Filter—High Temperature (T > 250° F)

2. Control Device or Method Code(s): **016**

Emissions Unit Details

1. Package Unit: **N/A**
Manufacturer: **Sly, Inc.** Model Number: **STJ-2817-12**

2. Generator Nameplate Rating: **N/A** MW

3. Incinerator Information: **N/A**
Dwell Temperature: **N/A** °F
Dwell Time: **N/A** seconds
Incinerator Afterburner Temperature: **N/A**°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: **85.0** mmBtu/hr

2. Maximum Incineration Rate: **N/A** lb/hr **N/A** tons/day

3. Maximum Process or Throughput Rate: **35 TPH Wet Limestone**

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):
- **Maximum Heat Input Rate:**

582.2 gal/hr of #4 fuel oil @ 146,000 BTU/gal = 85.0 mmBtu/hr
2,620,000 gal/yr of #4 fuel oil @ 146,000 BTU/gal = 382,520 MMBtu/yr

- **Maximum Process Rate:**

Maximum throughput of limestone drying and processing facility is 35 tph (monthly average basis) and 306,600 tons per 12 consecutive month period.

Emissions Unit Information Section 1 of 6
[E.U. 002: Dust Collector No. 1 (DC-1) for Dryer]

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **ST-1**	2. Emission Point Type Code: **1**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **Stack from Dust Collector 1**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **N/A**		
5. Discharge Type Code: **V**	6. Stack Height: **75** feet	7. Exit Diameter: **3.8** feet
8. Exit Temperature: **375** °F	9. Actual Volumetric Flow Rate: **35,000** acfm	10. Water Vapor: **23** %
11. Maximum Dry Standard Flow Rate: **17,041** dscfm	12. Nonstack Emission Point Height: **N/A** feet	
13. Emission Point UTM Coordinates: **Not Determined** Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **Maximum Dry Standard Flow Rate:** **35,000 acfm x (1-0.23) x [(68+460)/(375 + 460)] = 17,041dscfm**		

Emissions Unit Information Section 1 of 6
[E.U. 002: Dust Collector No. 1 (DC-1) for Dryer]

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 4

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ Mineral Products/ Stone Quarrying—Processing/ General** **Dust Collector 1 (DC-1) collects particulate emissions from the dryer.**		
2. Source Classification Code (SCC): **3-05-020-99**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **35 (Wet Basis)**	5. Maximum Annual Rate: **306,600 (Wet Basis)**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **N/A**
10. Segment Comment (limit to 200 characters): **None.**		

Segment Description and Rate: Segment 2 of 4

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ In Process Fuel Use/ Residual Oil/ Dryer**		
2. Source Classification Code (SCC): **3-90-004-02**	3. SCC Units: **Thousand Gallons Burned**	
4. Maximum Hourly Rate: **0.582**	5. Maximum Annual Rate: **2,620**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **0.50**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **146**
10. Segment Comment (limit to 200 characters): **Annual fuel usage rate is limited to escape Title V.**		

Emissions Unit Information Section 1 of 6
[E.U. 002: Dust Collector No. 1 (DC-1) for Dryer]

Segment Description and Rate: Segment 3 of 4

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/In-Process Fuel Use/ Liquified Petroleum Gas (Proprane)/ General**		
2. Source Classification Code (SCC): **3-90-010-89**	3. SCC Units: **Thousand Gallons Burned**	
4. Maximum Hourly Rate: **0.939**	5. Maximum Annual Rate: **8,228**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **90.5**
10. Segment Comment (limit to 200 characters): **Hourly Max:** **(85 mmBtu/hr) x (1 TGB/90.5 mmBtu) = 0.939 TGB/hr** **Annual Max:** **(0.939 TGB/hr) x (8760 hr/yr) = 8,228 TGB/yr**		

Segment Description and Rate: Segment 4 of 4

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ In-Process Fuel Use/ Natural Gas/ General**		
2. Source Classification Code (SCC): **3-90-006-89**	3. SCC Units: **Million Cubic Feet**	
4. Maximum Hourly Rate: **8.10×10^{-5}**	5. Maximum Annual Rate: **0.71**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **1050**
10. Segment Comment (limit to 200 characters): **Hourly Maximum:** **(0.085 mmBtu/hr) x (1 mmcf/1050 mmBtu) = 8.10×10^{-5} mmcf/hr** **Annual Maximum:** **(8.10×10^{-5} mmBtu/hr) x (8760 hr/yr) = 0.71 mmcf/yr**		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**	2. Pollutant Regulatory Code: **EL**	
3. Primary Control Device Code: **016**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/D**
6. Potential Emissions: **5.84** lb/hour **25.59** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.04 gr/dscf** Reference: **Test Data**		9. Emissions Method Code: **5**

10. Calculation of Emissions (limit to 600 characters):

(0.04 gr/dscf) x (17,041 dscf/min) x (60 min/hr) x (1 lb PM/7000 gr) = 5.84 lb PM/hr
(5.84 lb PM/hr) x (8760 hr/yr) x (1 ton/2000 lbs) = 25.59 tons PM/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor is based on test results, 98% confidence level, and a safety factor of 2. In addition, this emission factor is the accepted emission factor in NSPS Subpart I.**

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: **Rule**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.04 gr/dscf**	4. Equivalent Allowable Emissions: **5.84** lb/hour **25.59** tons/year

5. Method of Compliance (limit to 60 characters): **EPA Method 5**

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **None.**

Emissions Unit Information Section 1 of 6
[E.U. 002: Dust Collector No. 1 (DC-1) for Dryer]
Pollutant Detail Information Page 2 of 5

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **SO_2**		2. Pollutant Regulatory Code: **EL**
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/A**
6. Potential Emissions: **43.65** lb/hour **98.25** tons/year		7. Synthetically Limited? **[X]**
8. Emission Factor: **150S lb SO_2/1000 gallons** Reference: **AP-42, Table 1.3-1**		9. Emissions Method Code: **4**
10. Calculation of Emissions (limit to 600 characters): **[150(0.5) lb SO_2/TGB] x (0.582 TGB/hr) = 43.65 lbs SO_2/hr** **[150(0.5) lb SO_2/TGB] x (2,620 TGB/yr) x (1 ton/2000 lbs) = 98.25 ton SO_2/yr**		
11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor based on No. 4 oil-fired boilers < 100 mmbtu/hr.**		

Allowable Emissions Allowable Emissions **1** of **1**

1. Basis for Allowable Emissions Code: **ESCTV**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.5% Sulfur in fuel oil**	4. Equivalent Allowable Emissions: **43.65** lb/hour **98.25** tons/year
5. Method of Compliance (limit to 60 characters): **Fuel oil analysis by vendor**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **N/A**	

Emissions Unit Information Section 1 of 6
[E.U. 002: Dust Collector No. 1 (DC-1) for Dryer]
Pollutant Detail Information Page 3 of 5

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **NO_x**	2. Pollutant Regulatory Code: **NS**	
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/A**
6. Potential Emissions: **11.64** lb/hour **26.20** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **20 lbs NO_x/1000 gallons** Reference: **AP-42, Table 1.3-1**		9. Emissions Method Code: **4**
10. Calculation of Emissions (limit to 600 characters): **(20 lbs NO_x/TGB) x (0.582 TGB/hr) = 11.64 lbs NO_x/hr** **(20 lbs NO_x/TGB) x (2,620 TGB/yr) x (1 ton/2000 lbs) = 26.20 lbs NO_x/yr**		
11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor based on No. 4 oil-fired boilers < 100 mmbtu/hr.**		

Allowable Emissions Allowable Emissions N/A of N/A

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

Emissions Unit Information Section 1 of 6
[E.U. 002: Dust Collector No. 1 (DC-1) for Dryer]
Pollutant Detail Information Page 4 of 5

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **CO**		2. Pollutant Regulatory Code: **NS**
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/A**
6. Potential Emissions: **2.91** lb/hour **6.55** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **5 lbs CO/1000 gallons** Reference: **AP-42, Table 1.3-1**		9. Emissions Method Code: **4**
10. Calculation of Emissions (limit to 600 characters): **(5 lbs CO/TGB) x (0.582 TGB/hr) = 2.91 lbs CO/hr** **(5 lbs CO/TGB) x (2,620 TGB/yr) x (1 ton/2000 lbs) = 6.55 tons CO/yr**		
11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor based on No. 4 oil-fired boilers < 100 mmbtu/hr.**		

Allowable Emissions Allowable Emissions **N/A** of **N/A**

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

Emissions Unit Information Section 1 of 6
[E.U. 002: Dust Collector No. 1 (DC-1) for Dryer]
Pollutant Detail Information Page 5 of 5

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **VOC**		2. Pollutant Regulatory Code: **NS**
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/A**
6. Potential Emissions: **0.12** lb/hour **0.26** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.2 lbs NMTOC/1000 gallons** Reference: **AP-42, Table 1.3-3**		9. Emissions Method Code: **4**
10. Calculation of Emissions (limit to 600 characters): **(0.2 lbs NMTOC/TGB) x (0.582 TGB/hr) = 0.12 lbs NMTOC/hr** **(0.2 lbs NMTOC/TGB) x (2,620 TGB/hr) x (1 ton/2000 lbs) = 0.26 tons NMTOC/yr**		
11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor for NMTOC was used in calculations instead of a VOC emission factor. Emission factor based on No. 4 oil-fired boilers < 100 mmbtu/hr.**		

Allowable Emissions Allowable Emissions **N/A** of **N/A**

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

Emissions Unit Information Section 1 of 6
[E.U. 002: Dust Collector No. 1 (DC-1) for Dryer]

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: **VE20**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **20%** Exceptional Conditions: **20%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 62-296.320(b)1, F.A.C., this emissions limit applies to Dust Collector 1, which collects PM emissions from the dryer.**	

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

Continuous Monitoring System: Continuous Monitor N/A of N/A

1. Parameter Code: **N/A**	2. Pollutant(s): **N/A**
3. CMS Requirement: **N/A**	[ ] Rule [ ] Other
4. Monitor Information: **N/A** Manufacturer: **N/A** Model Number: **N/A** Serial Number: **N/A**	
5. Installation Date: **N/A**	6. Performance Specification Test Date: **N/A**
7. Continuous Monitor Comment (limit to 200 characters): **N/A**	

Emissions Unit Information Section 1 of 6
[E.U. 002: Dust Collector No. 1 (DC-1) for Dryer]

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] 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 [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: **N/A**

Emissions Unit Information Section 2 of 6
[E.U. 003: Dust Collector No. 2 (DC-2) for Screening and Belt Conveyor to Milling Operations]

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)

[ ] 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).

[X] 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.

[ ] 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):
Dust Collector No. 2 (DC-2) for Screening and Belt Conveyor to Milling Operations

3. Emissions Unit Identification Number:
ID: **003**
[ ] No ID
[ ] ID Unknown

4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **~1998**	6. Emissions Unit Major Group SIC Code: **14**

7. Emissions Unit Comment: (Limit to 500 Characters)
Dust Collector No. 2 (DC-2) controls particulate matter emissions from screening and belt conveyor to milling operations.

Emissions Unit Information Section 2 of 6
[E.U. 003: Dust Collector No. 2 (DC-2) for Screening and Belt Conveyor to Milling Operations]

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method):
Fabric Filter—Medium Temperature (180°F < T < 250°F)

2. Control Device or Method Code(s): **017**

Emissions Unit Details

1. Package Unit: **N/A**
Manufacturer: **Sly, Inc** Model Number: **STJ-1315-10**

2. Generator Nameplate Rating: **N/A** MW

3. Incinerator Information: **N/A**
Dwell Temperature: **N/A** °F
Dwell Time: **N/A** seconds
Incinerator Afterburner Temperature: **N/A**°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: **N/A** mmBtu/hr

2. Maximum Incineration Rate: **N/A** lb/hr **N/A** tons/day

3. Maximum Process or Throughput Rate: **35 TPH Wet Limestone**

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):

- **Maximum Process Rate:**

Maximum throughput of limestone drying and processing facility is 35 tph (monthly average basis) and 306,600 tons per 12 consecutive month period.

Emissions Unit Information Section 2 of 6
[E.U. 003: Dust Collector No. 2 (DC-2) for Screening and Belt Conveyor to Milling Operations]

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **FA-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): **Fan outlet from dust collector 2 (DC-2)**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **N/A**		
5. Discharge Type Code: **H**	6. Stack Height: **N/A**feet	7. Exit Diameter: **N/A** feet
8. Exit Temperature: **200** °F	9. Actual Volumetric Flow Rate: **12,800** acfm	10. Water Vapor: **~2** %
11. Maximum Dry Standard Flow Rate: **10,035** dscfm	12. Nonstack Emission Point Height: **N/A** feet	
13. Emission Point UTM Coordinates: **Not Determined** Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **Maximum Dry Standard Flow Rate:** **12,800 acfm x (1-0.02) x [(68+460)/(200 + 460)] = 10,035 dscfm**		

Emissions Unit Information Section 2 of 6
[E.U. 003: Dust Collector No. 2 (DC-2) for Screening and Belt Conveyor to Milling Operations]

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ Mineral Products/ Stone Quarrying—Processing/ General** **Dust Collector 2 (DC-2) vents particulate emissions from the screening and milling operations.**		
2. Source Classification Code (SCC): **3-05-020-99**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **35 (Wet Basis)**	5. Maximum Annual Rate: **306,600 (Wet Basis)**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **N/A**
10. Segment Comment (limit to 200 characters): **None.**		

Emissions Unit Information Section 2 of 6
[E.U. 003: Dust Collector No. 2 (DC-2) for Screening and Belt Conveyor to Milling Operations]
Pollutant Detail Information Page 1 of 1

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**	2. Pollutant Regulatory Code: **EL**	
3. Primary Control Device Code: **017**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/D**
6. Potential Emissions: **1.72** lb/hour **7.53** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.02 gr/dscf** Reference: **40 CFR 60.672(a)**		9. Emissions Method Code: **5**

10. Calculation of Emissions (limit to 600 characters):

(0.02 gr/dscf) x (10,035 dscf/min) x (60 min/hr) x (1 lb PM/7000 gr) = 1.72 lb PM/hr
(1.72 lb PM/hr) x (8760 hr/yr) x (1 ton/2000 lbs) = 7.53 tons PM/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters): **Dust Collector 2 (DC-2) collects emissions from the screening and belt conveyor to milling processes, which consists of various equipment that is subject to 40 CFR 60, Subpart OOO.**

Allowable Emissions Allowable Emissions **1** of **1**

1. Basis for Allowable Emissions Code: **Rule**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.02 gr/dscf**	4. Equivalent Allowable Emissions: **1.72** lb/hour **7.53** tons/year

5. Method of Compliance (limit to 60 characters): **EPA Method 9**

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **None.**

Emissions Unit Information Section 2 of 6
[E.U. 003: Dust Collector No. 2 (DC-2) for Screening and Belt Conveyor to Milling Operations]

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: **VE07**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **07%** Exceptional Conditions: **07%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 40 CFR 60.672(a)(2), this emissions limit applies to Dust Collector 2 (DC-2), which collects PM from various pieces of equipment and transfer points that are subject to 40 CFR 60, Subpart OOO.**	

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: **VE20**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **20%** Exceptional Conditions: **20%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 62-296.320(b)1, F.A.C., this emissions limit applies to all other equipment in the screening operations not subject to 40 CFR 60, Subpart OOO (e.g. screw conveyors).**	

Emissions Unit Information Section 2 of 6
[E.U. 003: Dust Collector No. 2 (DC-2) for Screening and Belt Conveyor to Milling Operations]

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

Continuous Monitoring System: Continuous Monitor **N/A** of **N/A**

1. Parameter Code: **N/A**	2. Pollutant(s): **N/A**
3. CMS Requirement: **N/A**	[ ] Rule [ ] Other
4. Monitor Information: **N/A** Manufacturer: **N/A** Model Number: **N/A**	Serial Number: **N/A**
5. Installation Date: **N/A**	6. Performance Specification Test Date: **N/A**
7. Continuous Monitor Comment (limit to 200 characters): **N/A**	

Emissions Unit Information Section 2 of 6
[E.U. 003: Dust Collector No. 2 (DC-2) for Screening and Belt Conveyor to Milling Operations]

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] 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 [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: **N/A**

Emissions Unit Information Section 3 of 6
[E.U. 004: Dust Collector No. 3 (DC-3) for Milling Operations]

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)

[ ] 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).

[X] 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.

[ ] 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):
Dust Collector No. 3 (DC-3) for Milling Operations

3. Emissions Unit Identification Number:
ID: **004**
[ ] No ID
[ ] ID Unknown

4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **~1998**	6. Emissions Unit Major Group SIC Code: **14**

7. Emissions Unit Comment: (Limit to 500 Characters)
Dust Collector No. 3 (DC-3) controls particulate matter emissions from milling operations.

Emissions Unit Information Section 3 of 6
[E.U. 004: Dust Collector No. 3 (DC-3) for Milling Operations]

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): **Fabric Filter—Medium Temperature (180°F < T < 250° F)**
2. Control Device or Method Code(s): **017**

Emissions Unit Details

1. Package Unit: **N/A** Manufacturer: **Sly, Inc.**	Model Number: **STJ-78-10**	
2. Generator Nameplate Rating:	**N/A** MW	
3. Incinerator Information: **N/A** Dwell Temperature: Dwell Time: Incinerator Afterburner Temperature:		**N/A** °F **N/A** seconds **N/A**°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	**N/A** mmBtu/hr	
2. Maximum Incineration Rate:	**N/A** lb/hr	**N/A** tons/day
3. Maximum Process or Throughput Rate: **35 TPH Wet Limestone**		
4. Maximum Production Rate: **N/A**		
5. Requested Maximum Operating Schedule: **24** hours/day **52** weeks/year		**7** days/week **8760** hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

- **Maximum Process Rate:**

Maximum throughput of limestone drying and processing facility is 35 tph (monthly average basis) and 306,600 tons per 12 consecutive month period.

Emissions Unit Information Section 3 of 6
[E.U. 004: Dust Collector No. 3 (DC-3) for Milling Operations]

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **FA-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): **Fan vent from Dust Collector 3**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **N/A**		
5. Discharge Type Code: **H**	6. Stack Height: **N/A** feet	7. Exit Diameter: **N/A** feet
8. Exit Temperature: **200** °F	9. Actual Volumetric Flow Rate: **4,000** acfm	10. Water Vapor: **~2** %
11. Maximum Dry Standard Flow Rate: **3,136** dscfm	12. Nonstack Emission Point Height: **N/A** feet	
13. Emission Point UTM Coordinates: **Not Determined** Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **Maximum Dry Standard Flow Rate:** **4,000 acfm x (1-0.02) x [(68+460)/(200 + 460)] = 3,136 dscfm**		

Emissions Unit Information Section 3 of 6
[E.U. 004: Dust Collector No. 3 (DC-3) for Milling Operations]

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ Mineral Products/ Stone Quarrying—Processing/ General** **Dust Collector 3 (DC-3) vents particulate emissions from milling operations.**		
2. Source Classification Code (SCC): **3-05-020-99**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **35 (Wet Basis)**	5. Maximum Annual Rate: **306,600 (Wet Basis)**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **N/A**
10. Segment Comment (limit to 200 characters): **None.**		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**	2. Pollutant Regulatory Code: **EL**	
3. Primary Control Device Code: **016**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/D**
6. Potential Emissions: **0.54** lb/hour **2.35** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.02 gr/dscf** Reference: **40 CFR 60.672(a)**		9. Emissions Method Code: **5**

10. Calculation of Emissions (limit to 600 characters):

(0.02 gr/dscf) x (3,136 dscf/min) x (60 min/hr) x (1 lb PM/7000 gr) = 0.54 lb PM/hr
(0.54 lb PM/hr) x (8760 hr/yr) x (1 ton/2000 lbs) = 2.35 tons PM/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters): **Dust Collector 3 (DC-3) collects emissions from the milling process.**

Allowable Emissions Allowable Emissions **1** of **1**

1. Basis for Allowable Emissions Code: **Rule**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.02 gr/dscf**	4. Equivalent Allowable Emissions: **0.54** lb/hour **2.35** tons/year
5. Method of Compliance (limit to 60 characters): **EPA Method 5**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **None.**	

Emissions Unit Information Section 3 of 6
[E.U. 004: Dust Collector No. 3 (DC-3) for Milling Operations]

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: **VE20**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **20%** Exceptional Conditions: **20%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 62-296.320(b)1, F.A.C., this emissions limit applies to Dust Collector 3, which collects PM emissions from the Raymond Mill. The Raymond Mill is *NOT* subject to NSPS, as it was constructed/reconstructed/modified prior to 8/31/1983.**	

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

Continuous Monitoring System: Continuous Monitor N/A of N/A

1. Parameter Code: **N/A**	2. Pollutant(s): **N/A**
3. CMS Requirement: **N/A**	[ ] Rule [ ] Other
4. Monitor Information: **N/A** Manufacturer: **N/A** Model Number: **N/A**	Serial Number: **N/A**
5. Installation Date: **N/A**	6. Performance Specification Test Date: **N/A**
7. Continuous Monitor Comment (limit to 200 characters): **N/A**	

Emissions Unit Information Section 3 of 6
[E.U. 004: Dust Collector No. 3 (DC-3) for Milling Operations]

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] 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 [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: **N/A**

Emissions Unit Information Section 4 of 6
[E.U. 005: Dust Collector No. 4 (DC-4) for Silos]

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)

[ ] 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).

[X] 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.

[ ] 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):
Dust Collector No. 4 (DC-4) for Silos

3. Emissions Unit Identification Number:
ID: **005**
[ ] No ID
[ ] ID Unknown

4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **~1998**	6. Emissions Unit Major Group SIC Code: **14**

7. Emissions Unit Comment: (Limit to 500 Characters)
Dust Collector No. 4 (DC-4) controls particulate matter emissions from Silo SS-3.

Silos 1, 2, and 3 (SS-1, SS-2, and SS-3, respectively) were constructed/reconstructed/modified prior to August 31, 1983 and would not be subject to NSPS Subpart OOO.

Silo 4 (SS-4) is proposed new and would be subject to NSPS Subpart OOO.

Emissions Unit Information Section 4 of 6
[E.U. 005: Dust Collector No. 4 (DC-4) for Silos]

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method):
Fabric Filter—Medium Temperature ($180^{o}F < T < 250^{o}$ F)

2. Control Device or Method Code(s): **017**

Emissions Unit Details

1. Package Unit: **N/A**
Manufacturer: **Sly, Inc.** Model Number: **STJ-88-10**

2. Generator Nameplate Rating: **N/A** MW

3. Incinerator Information: **N/A**
Dwell Temperature: **N/A** °F
Dwell Time: **N/A** seconds
Incinerator Afterburner Temperature: **N/A**°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: **N/A** mmBtu/hr

2. Maximum Incineration Rate: **N/A** lb/hr **N/A** tons/day

3. Maximum Process or Throughput Rate: **35 TPH Wet Limestone**

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):

- **Maximum Process Rate:**

Maximum throughput of limestone drying and processing facility is 35 tph (monthly average basis) and 306,600 tons per 12 consecutive month period.

Emissions Unit Information Section 4 of 6
[E.U. 005: Dust Collector No. 4 (DC-4) for Silos]

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **FA-4**	2. Emission Point Type Code: **1**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **Fan vent for Dust Collector 4**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **N/A**		
5. Discharge Type Code: **H**	6. Stack Height: **N/A** feet	7. Exit Diameter: **N/A** feet
8. Exit Temperature: **200** °F	9. Actual Volumetric Flow Rate: **6,000** acfm	10. Water Vapor: **~2** %
11. Maximum Dry Standard Flow Rate: **4,704** dscfm	12. Nonstack Emission Point Height: **N/A** feet	
13. Emission Point UTM Coordinates: **Not Determined** Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **Maximum Dry Standard Flow Rate:** **6,000 acfm x (1-0.02) x [(68+460)/(200 + 460)] = 4,704 dscfm**		

Emissions Unit Information Section 4 of 6
[E.U. 005: Dust Collector No. 4 (DC-4) for Silos]

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ Mineral Products/ Stone Quarrying—Processing/ General** **Dust Collector 4 (DC-4) vents particulate emissions from Silo SS-3.**		
2. Source Classification Code (SCC): **3-05-020-99**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **35 (Wet Basis)**	5. Maximum Annual Rate: **306,600 (Wet Basis)**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **N/A**
10. Segment Comment (limit to 200 characters): **None.**		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**		2. Pollutant Regulatory Code: **EL**
3. Primary Control Device Code: **017**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/D**
6. Potential Emissions: **0.81** lb/hour **3.53** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.02 gr/dscf** Reference: **Air Pollution Engineering Manual, 1992.**		9. Emissions Method Code: **5**
10. Calculation of Emissions (limit to 600 characters): **(0.02 gr/dscf) x (4,704 dscf/min) x (60 min/hr) x (1 lb PM/7000 gr) = 0.81 lb PM/hr** **(0.81 lb PM/hr) x (8760 hr/yr) x (1 ton/2000 lbs) = 3.53 tons PM/yr**		
11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor based on Air and Waste Management Association's conservative value for particulate removal using a baghouse for a control device.**		

Allowable Emissions Allowable Emissions **1** of **1**

1. Basis for Allowable Emissions Code: **Rule**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.02 gr/dscf**	4. Equivalent Allowable Emissions: **0.81** lb/hour **3.53** tons/year
5. Method of Compliance (limit to 60 characters): **EPA Method 5**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **None.**	

Emissions Unit Information Section 4 of 6
[E.U. 005: Dust Collector No. 4 (DC-4) for Silos]

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: **VE10**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **10%** Exceptional Conditions: **10%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 40 CFR 60.672, this emissions limit applies to the enclosed screw conveyors used to load product into enclosed trucks.**	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: **VE20**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **20%** Exceptional Conditions: **20%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 62-296.320(b)1, F.A.C., this emissions limit applies to Dust Collector 4, which collects PM emissions from Silo SS-3. The Silo SS-3 is *NOT* subject to NSPS, as it was constructed/reconstructed/modified prior to 8/31/1983.**	

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

Continuous Monitoring System: Continuous Monitor **N/A** of **N/A**

1. Parameter Code: **N/A**	2. Pollutant(s): **N/A**
3. CMS Requirement: **N/A**	[ ] Rule [ ] Other
4. Monitor Information: **N/A** Manufacturer: **N/A** Model Number: **N/A**	Serial Number: **N/A**
5. Installation Date: **N/A**	6. Performance Specification Test Date: **N/A**
7. Continuous Monitor Comment (limit to 200 characters): **N/A**	

Emissions Unit Information Section 4 of 6
[E.U. 005: Dust Collector No. 4 (DC-4) for Silos]

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] 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 [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: **N/A**

Emissions Unit Information Section 5 of 6
[No. I.D.: Fugitive Emissions—Enclosed Building]

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)

[ ] 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, 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.

[X] 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):
Fugitive Emissions—Enclosed Building

3. Emissions Unit Identification Number:
ID:
[X] No ID
[ ] ID Unknown

4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **~1998**	6. Emissions Unit Major Group SIC Code: **14**

7. Emissions Unit Comment: (Limit to 500 Characters)
Fugitive emissions from various sources within the enclosed building.

Emissions Unit Information Section 5 of 6
[No. I.D.: Fugitive Emissions—Enclosed Building]

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

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	**N/A** mmBtu/hr	
2. Maximum Incineration Rate:	**N/A** lb/hr	**N/A** tons/day
3. Maximum Process or Throughput Rate: **35 TPH Wet Limestone**		
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):

- **Maximum Process Rate:**

Maximum throughput of limestone drying and processing facility is 35 tph (monthly average basis) and 306,600 tons per 12 consecutive month period.

Emissions Unit Information Section 5 of 6
[No. I.D.: Fugitive Emissions—Enclosed Building]

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **N/A**	2. Emission Point Type Code: **4**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **Fugitive emissions from various sources in enclosed building.**		
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: **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: **N/A** feet	
13. Emission Point UTM Coordinates: **Not Determined** Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **None.**		

Emissions Unit Information Section 5 of 6
[No. I.D.: Fugitive Emissions—Enclosed Building]

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ Mineral Products/ Stone Quarrying—Processing/ General**		
2. Source Classification Code (SCC): **3-05-020-99**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **35 (Wet Basis)**	5. Maximum Annual Rate: **306,600 (Wet Basis)**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **N/A**
10. Segment Comment (limit to 200 characters): **None.**		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**	2. Pollutant Regulatory Code: **EL**	
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/D**
6. Potential Emissions: **0.19** lb/hour **0.83** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.0054 lb PM/ton** Reference: **AP-42, Table 11.19.2-2**		9. Emissions Method Code: **4**
10. Calculation of Emissions (limit to 600 characters): **(0.0054 lb PM/ton) x (35 tons/hour) = 0.19 lb PM/hr** **(0.19 lb PM/hr) x (8760 hr/yr) x (1 ton/2000 lbs) = 0.83 tons PM/yr**		
11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor for uncontrolled tertiary crushing was used to provide a conservative estimate for particulate emissions.**		

Allowable Emissions Allowable Emissions **1** of **1**

1. Basis for Allowable Emissions Code: **Rule**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.0054 lb PM/ton**	4. Equivalent Allowable Emissions: **0.19** lb/hour **0.83** tons/year
5. Method of Compliance (limit to 60 characters): **EPA Method 9**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **None.**	

Emissions Unit Information Section 5 of 6
[No I.D.: Fugitive Emissions—Enclosed Building]

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: **VE10**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **10%** Exceptional Conditions: **10%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 40 CFR 60.672, this emissions limit applies to various fugitive emissions from equipment, except for crushers, subject to 40 CFR 60, Subpart OOO inside the enclosed building.**	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: **VE15**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **15%** Exceptional Conditions: **15%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 40 CFR 60.672, this emissions limit applies to various fugitive emissions from crushers subject to 40 CFR 60, Subpart OOO inside the enclosed building.**	

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

Continuous Monitoring System: Continuous Monitor **N/A** of **N/A**

1. Parameter Code: **N/A**	2. Pollutant(s): **N/A**
3. CMS Requirement: **N/A**	[ ] Rule [ ] Other
4. Monitor Information: **N/A** Manufacturer: **N/A** Model Number: **N/A**	Serial Number: **N/A**
5. Installation Date: **N/A**	6. Performance Specification Test Date: **N/A**
7. Continuous Monitor Comment (limit to 200 characters): **N/A**	

Emissions Unit Information Section 5 of 6
[No I.D.: Fugitive Emissions—Enclosed Building]

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] 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 [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: **N/A**

Emissions Unit Information Section 6 of 6
[No I.D.: Fugitive Emissions—Outside Building]

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)

[ ] 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, 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.

[X] 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):
Fugitive Emissions—Outside Building

3. Emissions Unit Identification Number:
ID:
[X] No ID
[ ] ID Unknown

4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **~1998**	6. Emissions Unit Major Group SIC Code: **14**

7. Emissions Unit Comment: (Limit to 500 Characters)
Fugitive Emissions from outside of the building.

Emissions Unit Information Section 6 of 6
[No I.D.: Fugitive Emissions—Outside Building]
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: **N/A**	Model Number: **N/A**	
2. Generator Nameplate Rating:	**N/A** MW	
3. Incinerator Information: **N/A**		
Dwell Temperature:		**N/A** °F
Dwell Time:		**N/A** seconds
Incinerator Afterburner Temperature:		**N/A**°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	**N/A** mmBtu/hr	
2. Maximum Incineration Rate:	**N/A** lb/hr	**N/A** tons/day
3. Maximum Process or Throughput Rate: **35 TPH Wet Limestone**		
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):

- **Maximum Process Rate:**

Maximum throughput of limestone drying and processing facility is 35 tph (monthly average basis) and 306,600 tons per 12 consecutive month period.

Emissions Unit Information Section 6 of 6
[No I.D.: Fugitive Emissions—Outside Building]

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? **N/A**	2. Emission Point Type Code: **4**	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **Load Hopper (LH-1), Belt Conveyor (BC-1), Crusher (CR-01—Proposed new), Feed Bin (BN-1)**		
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: **N/A** °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: **N/A** feet	
13. Emission Point UTM Coordinates: **Not Determined** Zone: East (km): North (km):		
14. Emission Point Comment (limit to 200 characters): **None.**		

Emissions Unit Information Section 6 of 6
[No I.D.: Fugitive Emissions—Outside Building]

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): **Industrial Processes/ Mineral Products/ Stone Quarrying—Processing/ General**		
2. Source Classification Code (SCC): **3-05-020-99**	3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **35 (Wet Basis)**	5. Maximum Annual Rate: **306,600 (Wet Basis)**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **N/A**
10. Segment Comment (limit to 200 characters): **None.**		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: **PM**	2. Pollutant Regulatory Code: **EL**	
3. Primary Control Device Code: **N/A**	4. Secondary Control Device Code: **N/A**	5. Total Percent Efficiency of Control: **N/D**
6. Potential Emissions: **0.19** lb/hour **0.83** tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: **0.0054 lb PM/ton** Reference: **AP-42, Table 11.19.2-2**		9. Emissions Method Code: **4**
10. Calculation of Emissions (limit to 600 characters): **(0.0054 lb PM/ton) x (35 tons/hr) = 0.19 lb PM/hr** **(0.19 lb PM/hr) x (8760 hr/yr) x (1 ton/2000 lbs) = 0.83 tons PM/yr**		
11. Pollutant Potential Emissions Comment (limit to 200 characters): **Emission factor for uncontrolled tertiary crushing was used to provide a conservative estimate for particulate emissions.**		

Allowable Emissions Allowable Emissions **1** of **1**

1. Basis for Allowable Emissions Code: **Rule**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **0.0054 lb PM/ton**	4. Equivalent Allowable Emissions: **0.19** lb/hour **0.83** tons/year
5. Method of Compliance (limit to 60 characters): **EPA Method 9**	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): **None.**	

Emissions Unit Information Section 6 of 6
[No ID: Fugitive Emissions—Outside Building]

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: **VE10**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **10%** Exceptional Conditions: **10%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 40 CFR 60.672, this emissions limit applies to various fugitive emissions from equipment, except for crushers, subject to 40 CFR 60, Subpart OOO outside of the enclosed building.**	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: **VE15**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **15%** Exceptional Conditions: **15%** Maximum Period of Excess Opacity Allowed: **0** min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **Per 40 CFR 60.672, this emissions limit applies to crushers, subject to 40 CFR 60, Subpart OOO outside of the enclosed building.**	

Emissions Unit Information Section 6 of 6
[No ID: Fugitive Emissions—Outside Building]

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

Continuous Monitoring System: Continuous Monitor **N/A** of **N/A**

1. Parameter Code: **N/A**	2. Pollutant(s): **N/A**
3. CMS Requirement: **N/A**	[ ] Rule [ ] Other
4. Monitor Information: **N/A** Manufacturer: **N/A** Model Number: **N/A**	Serial Number: **N/A**
5. Installation Date: **N/A**	6. Performance Specification Test Date: **N/A**
7. Continuous Monitor Comment (limit to 200 characters): **N/A**	

Emissions Unit Information Section 6 of 6
[No ID: Fugitive Emissions—Outside Building]

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] 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 [X] Attached, Document ID: **Supporting Documentation** [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: **N/A**

Consolidated Minerals, Inc.
Center Hill Hi-Cal Plant
Facility ID 1190018

Air Construction Permit Application

Supporting Documentation

EU002:	**Dust Collector 1 for Dryers**
EU003:	**Dust Collector 2 for Screening and Milling Operations**
EU004:	**Dust Collector 3 for Milling Operations**
EU005:	**Dust Collector 4 for Silos**
No I.D:	**Fugitive Emissions—Enclosed Building**
No I.D.:	**Fugitive Emissions—Outside Building**

PREPARED BY:
KOOGLER & ASSOCIATES, INC.

REVISION: August 3, 2005

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Table of Contents

Tables & Figures

Process Description

Limestone is dried and processed to produce crushed stone meeting various specifications. Processing operations include hauling, drying, crushing, screening, conveying, stockpiling, and product handling.

Drying Operations

Stockpiled material is loaded into the load hopper (LH-1). The material from the load hopper (LH-1) is then placed on a belt conveyor (BC-1). The material on the belt conveyor (BC-1) is either deposited into a feed bin (BN-1) or crushed by a crusher (CR-01) and then deposited into a feed bin (BN-1).

From the feed bin (BN-1), the material is fed into the table feeder (TF-1) and loaded into the dryer (DR-1) via hopper for drying processes. The emissions from the dryer are captured by a dust collector (DC-1). Particulate matter collected in the dryer's dust collector (DC-1) is sent to the product line (LL-1) via screw conveyor (SC-1). The dust collector's gas stream is exhausted into the atmosphere (ST-1). The product line (LL-1) from the dust collector (DC-1) is blown (BL-1) into a silo (SS-3) for truck load out (LS-1).

The process flow diagram for drying operations can be seen in Figure 1. An equipment list can be seen in Table 1.

Screening Operations

Dried material from the dryer (DR-1), along with oversized material from the shaker screen (SN-1) that is screw conveyed (SC-4) and crushed via crusher (CR-02), are placed on a screw conveyor (SC-2). The screw conveyor (SC-2) deposits the material into a bucket elevator (BE-1). The bucket elevator (BE-1) then delivers the material to the shaker screen (SN-1).

The shaker screen (SN-1) is a triple pass screening system. Oversized material that does not pass through the first screen from the shaker screen (SN-1) either goes to a screw conveyor (SC-4) and gets crushed via crusher (CR-02) or is stored in a feed bin (BN-2). If the oversized material is sent to the crusher, it gets sent back to the shaker screen (SN-1) via screw conveyor (SC-2) and bucket elevator (BE-1). If the oversized material is sent to the feed bin (BN-2), then the material is fed to a belt conveyor (BC-3) and conveyed to a rotary feeder (VF-1) for the mill.

Material that does not pass the second screen of the shaker screen (SN-1) is either deposited in a feed bin (BN-2) with some of the oversized material or deposited on a belt conveyor (BC-4). If this material is deposited into the feed bin (BN-2), then the material is fed to a belt conveyor (BC-3) and conveyed to a rotary feeder (VF-1) for the mill. If the material is deposited onto a belt conveyor (BC-4), then it is dropped into a bucket elevator (BE-2) which deposits material into a silo (SS-1) for truck load out (LS-1).

Material that does not pass the third screen of the shaker screen (SN-1) is deposited into the product line (LL-3) and blown (BL-5) into a silo (SS-4) for truck load out (LS-1).

Material that passes all three screens of the shaker screen (SN-1) is deposited into the feed bin (BN-2) and fed to a belt conveyor (BC-3) and conveyed to a rotary feeder (VF-1)

Particulate matter from the screw conveyor (SC-2), bucket elevator (BE-2), belt conveyors (BC-3 and BC-4), feed bin (BN-2), and shaker screen (SN-1) are captured by a dust collector (DC-2). Particulate matter captured in the dust collector (DC-2) forms a product line (LL-2) and is blown into a silo (SS-3) for truck load out (LS-1). The dust collector's (DC-2) gas stream is exhausted into the atmosphere (FA-2).

The process flow diagram for screening operations can be seen in Figures 1 and 2. An equipment list can be seen in Table 1.

Crushing/Milling Operations

There are two crushers (CR-01, CR-02) and a Raymond Mill (RM-1) that comprise the crushing operations at this facility. Please refer to the drying and screening operation sections for process descriptions for Crusher 1 (CR-01) and Crusher 2 (CR-02). The process description for the Raymond Mill can be seen below.

Material is conveyed via belt conveyor (BC-3) to a variable speed rotary feeder (VF-1) for the Raymond Mill. The rotary feeder (VF-1) feeds the material into the Raymond Mill (RM-1). Particulate matter from the Raymond Mill is initially captured by a cyclone (CY-1). The cyclone (CY-1) recovers some of the material and sends it back to the Raymond Mill (RM-1) via fan (MF-1). The material in the cyclone (CY-1) is either recovered and sent back to the Raymond Mill (RM-1) via mill fan (MF-1) or enters the product line (LL-4) and is blown (BL-4) into silos (SS-2 and SS-3) for truck load out (LS-1).

Particulate matter from the belt conveyor (BC-3) is collected in Dust Collector 2 (DC-2). Particulate matter captured in the dust collector (DC-2) forms a product line (LL-2) and is blown into a silo (SS-3) for truck load out (LS-1). The dust collector's (DC-2) gas stream is exhausted into the atmosphere (FA-2).

Particulate matter from the mill fan (MF-1) is deposited in Dust Collector 3 (DC-3). Particulate matter captured in the dust collector (DC-3) enters the product line (LL-4) and is blown (BL-4) into a silo (SS-2 or SS-3) for truck load out (LS-1). The dust collector's (DC-3) gas stream is exhausted into the atmosphere (FA-3).

The process flow diagram for crushing/milling operations can be seen in Figures 1 and 2. An equipment list can be seen in Table 1.

Product Handling Operations

Product Handling Operations consist of four (4) silos (SS-1, SS-2, SS-3, and SS-4), screw conveyors (SC-4, SC-5), a bucket elevator (BE-2), and a load out spout (LS-1). The following are process descriptions for each silo.

Silo SS-1

Material from a bucket elevator (BE-2) is transported into a silo (SS-1). The material is then screw conveyed (SC-5) to a load out spout (LS-1) for truck loading. Particulate matter from the silo (SS-1) is sent to another silo (SS-2) via air slide.

Particulate matter emissions from the bucket elevator and load out spout (LS-1) are collected by a dust collector (DC-2). Particulate matter captured in the dust collector (DC-2) forms a product line (LL-2) and is blown into another silo (SS-3) for truck load out (LS-1). The dust collector's (DC-2) gas stream is exhausted into the atmosphere (FA-2).

Silo SS-2

Part of Product Line 4 (LL-4) is blown (BL-4) into a silo (SS-2) from milling operations. The material is then screw conveyed (SC-5) to a load out spout (LS-1) for truck loading. Particulate matter from the silo (SS-2) is sent to another silo (SS-3) via air slide.

Particulate matter emissions from the load out spout (LS-1) are collected by a dust collector (DC-2). Particulate matter captured in the dust collector (DC-2) forms a product line (LL-2) and is blown into another silo (SS-3) for truck load out (LS-1). The dust collector's (DC-2) gas stream is exhausted into the atmosphere (FA-2).

Silo SS-3

Product Lines 1, 2, and part of 4 (LL-1, LL-2, LL-4) are blown (BL-1, BL-2, BL-4) into a silo (SS-3). In addition, particulate matter from Dust Collector 4 (DC-4) is deposited into the silo (SS-3) as well. The material is then screw conveyed (SC-5) to a load out spout (LS-1) for truck loading.

Particulate matter from the silo (SS-3) is collected by a dust collector (DC-4) and is returned back into the silo (SS-3) for material recovery. The dust collector's (DC-4) gas stream is exhausted into the atmosphere (FA-4).

Particulate matter emissions from the load out spout (LS-1) are collected by a dust collector (DC-2). Particulate matter captured in the dust collector (DC-2) forms a product line (LL-2) and is blown into another silo (SS-3) for truck load out (LS-

1). The dust collector's (DC-2) gas stream is exhausted into the atmosphere (FA-2).

Silo SS-4

Product line 2 (LL-2) is blown (BL-5) into a silo (SS-4). The material is then screw conveyed (SC-4) to another screw conveyor (SC-5), which leads to the load out spout (LS-1) for truck loading. Particulate matter from the silo (SS-4) is sent to another silo (SS-2) via air slide.

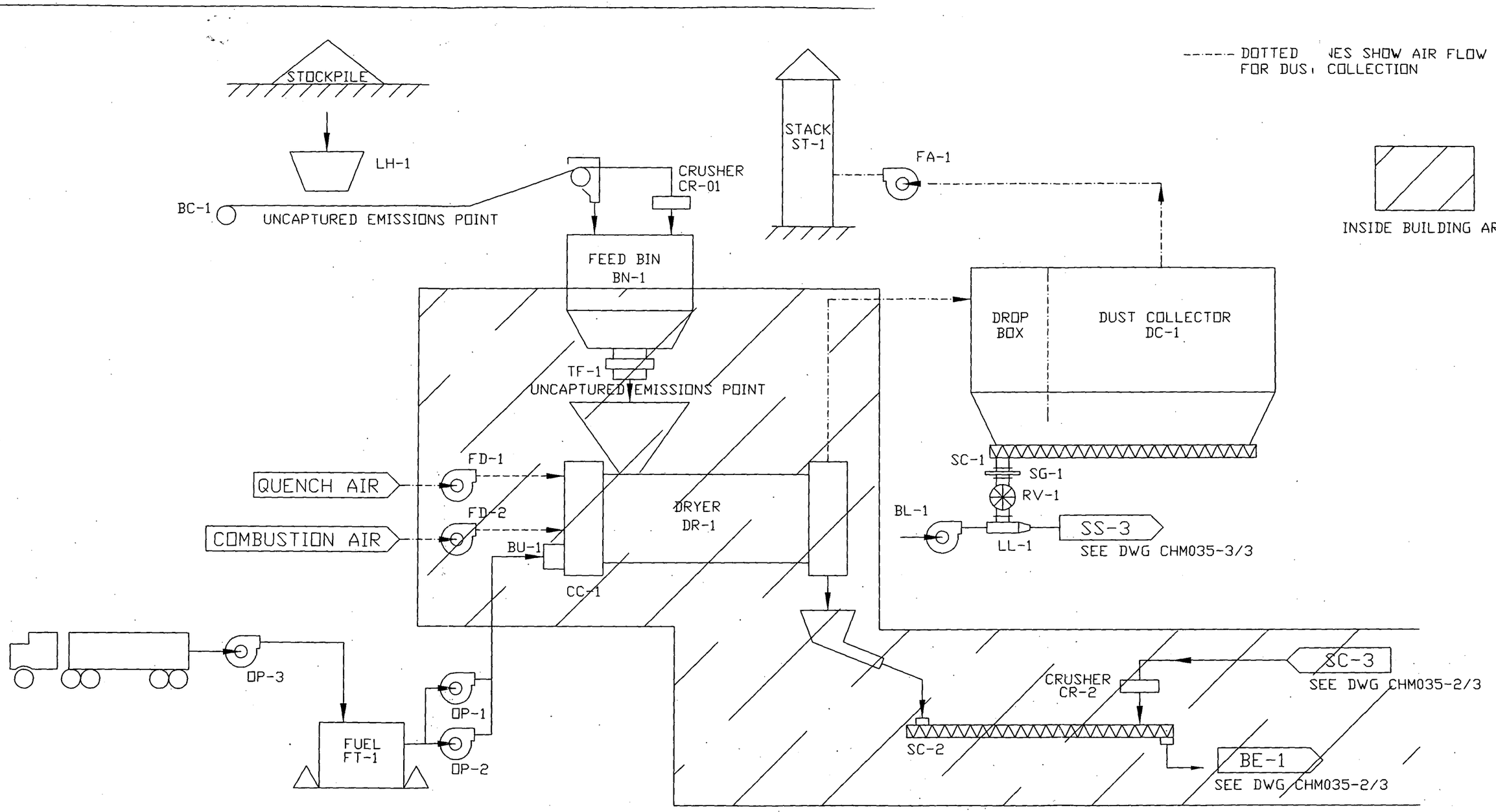
Particulate matter emissions from the load out spout (LS-1) are collected by a dust collector (DC-2). Particulate matter captured in the dust collector (DC-2) forms a product line (LL-2) and is blown into another silo (SS-3) for truck load out (LS-1). The dust collector's (DC-2) gas stream is exhausted into the atmosphere (FA-2).

A process flow diagram for product handling operations can be seen in Figure 3. An equipment list can be seen in Table 1.

Table 1: Equipment List

Item	Description	Subject 40 CFR 60, Subpart OOO
LL-1, 2, 3, & 4	Product line	No
SS-1, 2, 3, & 4	Silos[1]	SS-1, 2, & 3—No SS-4—Yes
CV-1, 2, & 3	Control rotary valves for silos	No
FA-1, 2, 3, & 4	Exhaust fans for dust collectors	No
SG-1, 2, & 3	Service gates for dust collector rotary valves	No
SG-4	Service gate for cyclone	No
SG-5, 6, & 7	Service gates for silos	No
LS-1	Load out spout	No
PS-1	Truck scale	No
RV-1, 2, & 3	Rotary valves for dust collectors	No
RV-4	Rotary valve for cyclone	No
RV-5	Rotary valve for shaker screen	No
BL-1, 2	Blower for dust collector #1 & 2	No
BL-4	Blower for mill	No
BL-5	Blower from shaker screen to silo #4	No
RM-1	Raymond Mill[2]	No
MF-1	Fan for Raymond Mill	No
VF-1	Variable speed rotary feeder to mill	No
BC-3	Belt conveyor from feed bin to mill	Yes
BN-2	Feed bin #2	Yes
SC-4	Screw Conveyor #4	No
SN-1	Shaker Screen	Yes
BE-1, 2	Bucket Elevators 1 &2	Yes
BC-4	Belt Conveyor #4	Yes
DC-1, 2, 3, &4	Dust Collectors Nos. 1, 2, 3, & 4	DC-1 & 3—No DC-2 & 4—Yes
CR-1, 2	Crushers Nos. 1 & 2	Yes
DR-1	Dryer	No
CC-1	Combustion Chamber	No
FD-1	Quench air fan	No
FD-2	Combustion air fan	No
SC-2	Screw Conveyor #2	No
BN-1	Feed Bin #1	Yes
TF-1	Table feeder	No
BC-1	Belt Conveyor #1	Yes
LH-1	Load Hopper for BC-1	Yes
BU-1	Burner for dryer	No
OP-1 & 2	Oil pumps for dryer	No
OP-3	Oil pump to load fuel tank	No
SC-1	Screw Conveyor #1	No
CY-1	Cyclone	No
SC-5	Screw Conveyor #5 from silo to load spout	No
SC-3	Screw Conveyor #3 from shaker to crusher #2	No

[1] Silos 1, 2, & 3 were constructed/reconstructed/modified prior to 8/31/1983.
[2] Raymond Mill was constructed/reconstructed/modified prior to 8/31/1983.



DESCRIPTION	DRAWING No			NO.	REVISION	DATE	BY
				P	DESIGN PROCESS CHANGE	07/28/05	RS
				O	DESIGN PROCESS CHANGE	06/07/05	RS
				N	DESIGN PROCESS CHANGE	10/22/98	JMC
				M	DESIGN PROCESS CHANGE	10/14/98	JMC
				K	DESIGN PROCESS CHANGE	7/15/98	JMC
				J	DESIGN PROCESS CHANGE	9/3/97	JMC
REFERENCE DRAWINGS		DATE	ISSUED TO				

FLORIDA CRUSHED STONE

LEESBURG FLORIDA

DATE	APPROVED BY	CHECKED BY	DRAWN BY
6/10/96			J.M.C.
SCALE N.T.C.			

PROCESS FLOW DIAGRAM
LIMESTONE DRYING & GRINDING

CENTER HILL
FLORIDA

DRAWING NUMBER
CHM035-1/3

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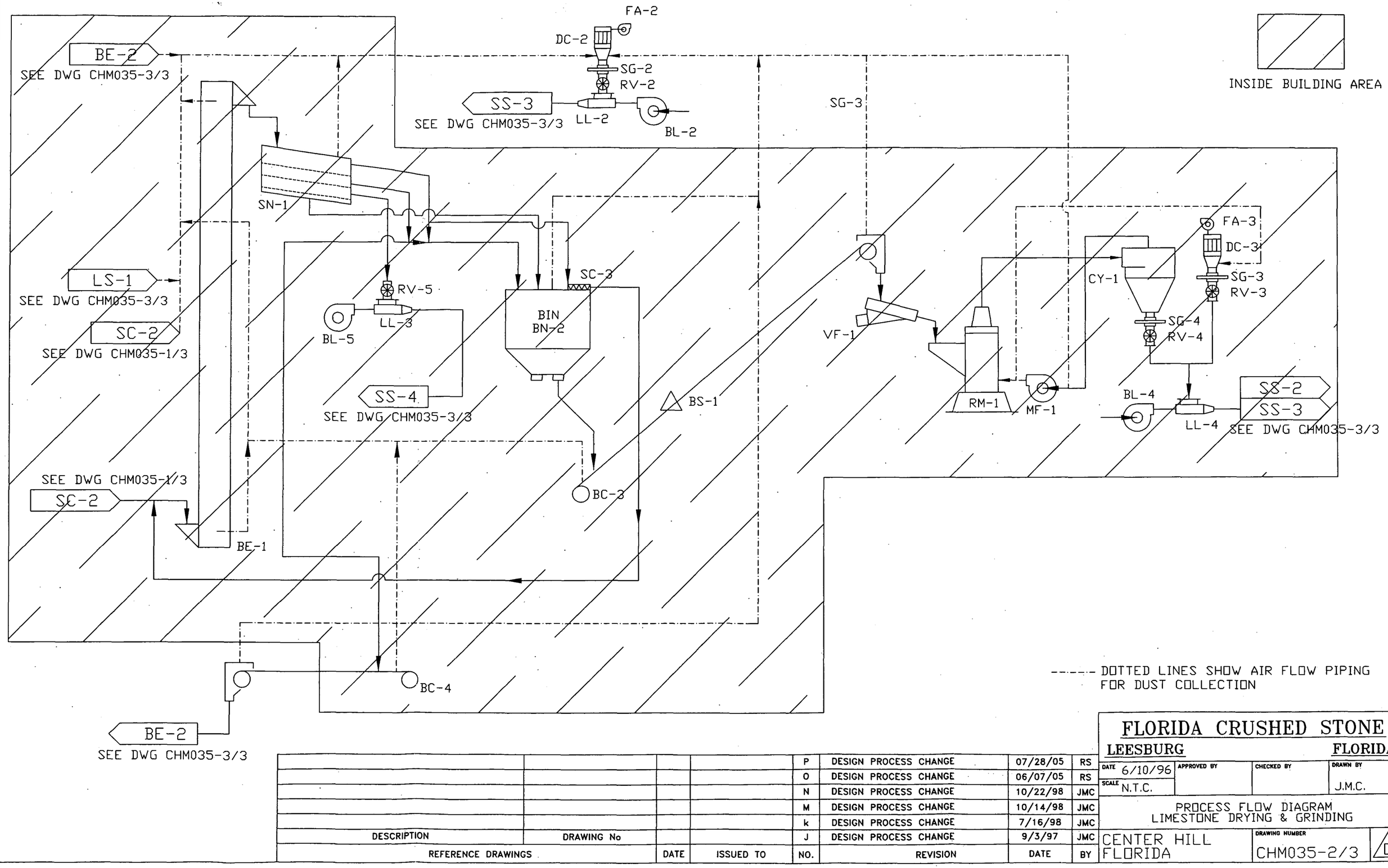


DESCRIPTION	DRAWING No			NO.	REVISION	DATE	BY
				P	DESIGN PROCESS CHANGE	07/28/05	RS
				O	DESIGN PROCESS CHANGE	06/07/05	RS
				N	DESIGN PROCESS CHANGE	10/22/98	JMC
				M	DESIGN PROCESS CHANGE	10/14/98	JMC
				k	DESIGN PROCESS CHANGE	7/16/98	JMC
				J	DESIGN PROCESS CHANGE	9/3/97	JMC
REFERENCE DRAWINGS		DATE	ISSUED TO				

FLORIDA CRUSHED STONE

LEESBURG FLORIDA

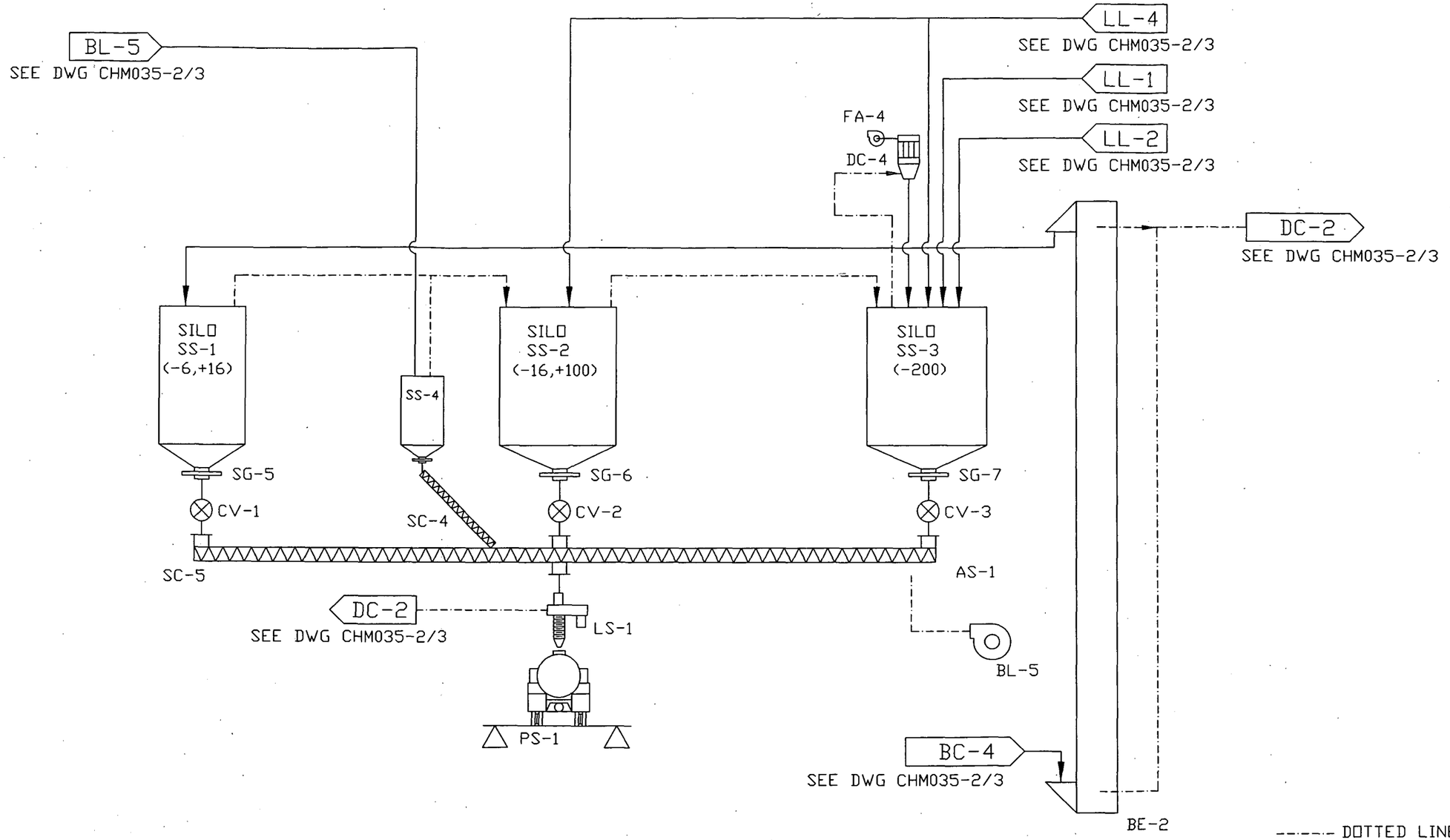
DATE	APPROVED BY	CHECKED BY	DRAWN BY
6/10/96			J.M.C.
SCALE N.T.C.			

PROCESS FLOW DIAGRAM
LIMESTONE DRYING & GRINDING

CENTER HILL
FLORIDA

DRAWING NUMBER
CHM035-2/3

0



------ DOTTED LINES SHOW AIR FLOW PIPING FOR AIR SLIDES

DESCRIPTION	DRAWING No			P	DESIGN PROCESS CHANGE	07/28/05	RS
				O	DESIGN PROCESS CHANGE	06/07/05	RS
				N	DESIGN PROCESS CHANGE	10/22/98	JMC
				M	DESIGN PROCESS CHANGE	10/14/98	JMC
				K	DESIGN PROCESS CHANGE	7/15/98	JMC
				J	DESIGN PROCESS CHANGE	9/3/97	JMC
REFERENCE DRAWINGS		DATE	ISSUED TO	NO.	REVISION	DATE	BY

FLORIDA CRUSHED STONE

LEESBURG FLORIDA

DATE	APPROVED BY	CHECKED BY	DRAWN BY
1/13/97			J.M.C.
SCALE N.T.C.			

PROCESS FLOW DIAGRAM
LIMESTONE DRYING & GRINDING

CENTER HILL
FLORIDA

DRAWING NUMBER
CHM035-3/3

0

ATTACHMENT 2

DRYER RECORDS

Consolidated Minerals, Inc.
Facility ID 1190018
Permit No. 1190018-008-AO

Recordkeeping
Fuel Usage and Processing Rates

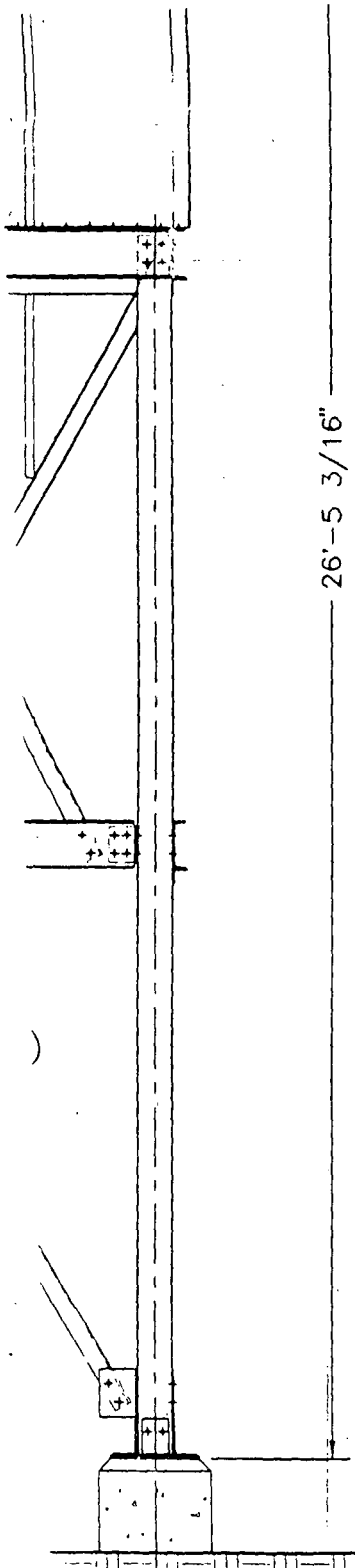
Month	Fuel Used Gallons	12-Month Rolling	Tons Produced	12-Month Rolling	Hours Operated	Hourly Tons	Hourly Tons Wet (12%)
May 05	57,150	563,152	13,663	133,155	593.40	23.03	26.16
Jun 05	55,131	567,756	14,895	135,186	588.80	25.30	28.75

ATTACHMENT 3

BAGHOUSE SPECIFICATIONS

ESTIMATED EQUIPMENT WEIGHT: 38,190 LBS (APPROX).

FILTER TO COLLECT:	LIMESTONE FROM ROTARY DRYER
AIR VOLUME:	35,000 ACFM
CLOTH AREA:	8,568 SQUARE FEET
A/C RATIO:	4.08:1
TEMPERATURE:	375°F
LOCATION:	OUTDOORS
OPERATING DESIGN:	20" W.G. (REINFORCED)
CAN VELOCITY:	N/A



SEE DWG. 60-420-1 FOR FOUNDATION PLAN, PLAN VIEW & INLET/OUTLET FLANGE DETAILS

SEE DWG. 60-420-2 FOR STEEL SUPPORT ASSEMBLY

SEE DWG. 60-420-3 FOR WALKWAY ASSEMBLY

BAG HOUSE # I

FINAL DRAWING. REVISED. Please destroy previous Prints.

CERTIFIED SLY INC. BY

EQUIP. TAG NO.	
CUST. ORDER NO.	FCS-1186

SLY® INC.

TECHNOLOGY FOR A CLEAN ENVIRONMENT

DRAWN BY	J. KURZ	DATE	8/19/98
CHECKED BY			
SCALE:		ORDER	JP6-9941

STJ-2817-12 WIP WELDED TubeJet DUST COLLECTOR W/ACCESS WALKWAY, HOPPER, STAIRCASE & STRUCTURAL STEEL SUPPORT

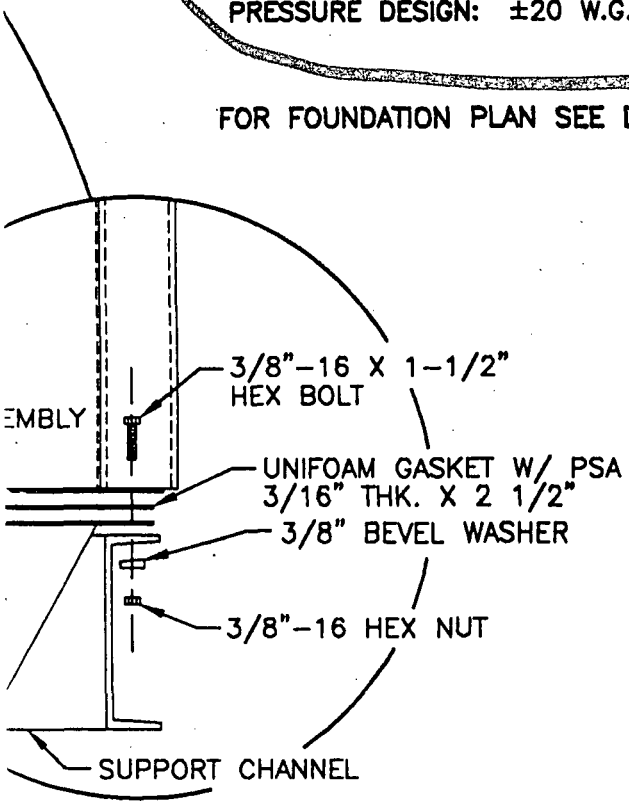
FLORIDA CRUSHED STONE

EQUIPMENT WEIGHT: APPROX. 13,500 LBS.

FILTER TO COLLECT:	LIME ROCK
AIR VOLUME:	12,000 ACFM (12,800 ACFM FUTURE)
CLOTH AREA:	2,925 SQUARE FEET
A/C RATIO:	4.1:1
TEMPERATURE:	0–200°F
LOCATION:	OUTDOORS
PRESSURE DESIGN:	±20 W.G.

BAG HOUSE #2

FOR FOUNDATION PLAN SEE DWG. NO. 60–429–1



VIEW "A"
ASSEMBLY BY CUSTOMER

EQUIP. TAG NO. TAG DC–2

CUST. ORDER NO. FCS–1207

NOTICE TO PURCHASER

REFER TO CONTRACT FOR MATERIAL TO BE SUPPLIED BY SLY INCORPORATED THE AMOUNT OF SUCH MATERIAL IS NOT INCREASED BY ANYTHING SHOWN ON THIS DRAWING

SLY® INC.
TECHNOLOGY FOR A CLEAN ENVIRONMENT

DRAWN BY S. MORDAUNT	DATE 9–29–98
CHECKED BY	
SCALE: 1/2"=1'	ORDER JP6–9964

STJ–1315–10 TubeJet
DUST COLLECTOR

FOR
FLORIDA CRUSHED STONE

60–429 (C)

ONE COAT OF SILICONE ALKYD HIGH TEMP. PRIMER TO ALL EXPOSED EXTERNAL & INTERNAL CARBON STEEL SURFACES, ONE COAT OF MODIFIED ACRYLIC ENAMEL FINISH PAINT (O.S.H.A. BLUE) TO ALL EXTERNAL SURFACES.

MAX TEMPERATURE: 275°

EQUIPMENT WEIGHT: APPROX. 3,700 LBS.

FILTER TO COLLECT:	LIME ROCK
AIR VOLUME:	4,000 CFM
CLOTH AREA:	840 SQUARE FEET
A/C RATIO:	4.8:1
TEMPERATURE:	200°F
LOCATION:	INDOORS
PRESSURE DESIGN:	±20 W.G.

BAG HOUSE #3

EQUIP. TAG NO. TAG DC-3

CUST. ORDER NO. FCS-1207

SLY INC.
TECHNOLOGY FOR A CLEAN ENVIRONMENT

DRAWN BY S. MORDAUNT	DATE 10-1-98
CHECKED BY	
SCALE: 1/2"=1'	ORDER JP6-9965

STJ-78-10 TubeJet
DUST COLLECTOR

FOR
FLORIDA CRUSHED STONE

60-430 (C)

APPLICATION:	SILO VENT
AIR VOLUME:	6000 ACFM
TEMPERATURE:	200°F
INLET LOADING:	UNKNOWN
MATERIAL COLLECTED:	LIME ROCK
FILTER AREA:	1200 ft²
AIR/CLOTH RATIO:	6.25 : 1
LOCATION:	OUTDOORS
PRESSURE DESIGN:	±20" w.c.
COLLECTOR MAT'L:	12 GAUGE CARBON STEEL

BAG HOUSE #4

FINAL DRAWING. REVISED.
Please destroy previous Prints.

EQUIP. TAG NO. DC-4

CUST. ORDER NO. FCS-1207

SLY INC.
TECHNOLOGY FOR A CLEAN ENVIRONMENT

DRAWN BY J. HOLLINGSWORTH	DATE 9-29-98
CHECKED BY	
SCALE: 3/4" = 1'-2"	ORDER JP6-9966

STJ-88-10 BV TubeJet
DUST COLLECTOR

FOR
FLORIDA CRUSHED STONE

60-431 (A)

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: **Consolidated Minerals, Inc.**	
2. Site Name: **Center Hill Hi-Cal Plant**	
3. Facility Identification Number: **1190018** [ ] Unknown	
4. Facility Location: Street Address or Other Locator: **State Road 48 West** City: **Center Hill** County: **Sumter** Zip Code: **33514**	
5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [X] Yes [ ] No

Application Contact

1. Name and Title of Application Contact: **Veronica N. Sgro, E.I.**
2. Application Contact Mailing Address: Organization/Firm: **Koogler & Associates, Inc.** Street Address: **4014 NW 13th Street** City: **Gainesville** State: **FL** Zip Code: **32609**
3. Application Contact Telephone Numbers: Telephone: **(352) 377-5822** Fax: **(352) 377-7158**

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	10-20-05
2. Permit Number:	1190018-012-AC

Rec'd 10-20-05 pm