

Notice of Proposed Agency Action

Technical Evaluation
and
Preliminary Determination

Florida Crushed Stone Company
Power Plant/Cement Plant Cogeneration Facility

State Permit Numbers

AC 27-61012	AC 27-61027
AC 27-61013	AC 27-61030
AC 27-61016	AC 27-61032
AC 27-61017	AC 27-61033
AC 27-61019	AC 27-61037
AC 27-61020	AC 27-61038
AC 27-61021	AC 27-61040
AC 27-61026	AC 27-61041
	AC 27-61042

Federal Permit Numbers

PSD-FL-090
PSD-FL-091

Florida Department of Environmental Regulation
Bureau of Air Quality Management
Central Air Permitting

May 24, 1983

*BACT used in state
permit*

*45 days from
Hearing Officer
Pursuant to*

RULES OF THE ADMINISTRATIVE COMMISSION
MODEL RULES OF PROCEDURE
CHAPTER 28-5
DECISIONS DETERMINING SUBSTANTIAL INTERESTS

28-5.15 Requests for Formal and Informal Proceedings

- (1) Requests for proceedings shall be made by petition to the agency involved. Each petition shall be printed typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double spaced and indented.
- (2) All petitions filed under these rules should contain:
 - (a) The name and address of each agency affected and each agency's file or identification number, if known;
 - (b) The name and address of the petitioner or petitioners;
 - (c) All disputed issues of material fact. If there are none, the petition must so indicate;
 - (d) A concise statement of the ultimate facts alleged, and the rules, regulations and constitutional provisions which entitle the petitioner to relief;
 - (e) A statement summarizing any informal action taken to resolve the issues, and the results of that action;
 - (f) A demand for the relief to which the petitioner deems himself entitled; and
 - (g) Such other information which the petitioner contends is material.

11

Technical Evaluation
and
Preliminary Determination

Florida Crushed Stone Company
Cement Plant

State Permit Numbers

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Florida Department of Environmental Regulation
Bureau of Air Quality Management
Central Air Permitting

May 19, 1983

I. APPLICANT AND SOURCE LOCATION

A. Applicant

Florida Crushed Stone (FCS) Company
P. O. Box 317
Leesburg, FL 32748

B. Location

The proposed construction, a 600,000 ton-per-year Portland cement plant and cogeneration facility, is located in Hernando County, approximately 3.5 miles northwest of Brooksville, Florida. The plant will be located on 6,400 acres of property owned by Florida Crushed Stone. The UTM coordinates of the plant are 360.0 - 360.1 km East and 3162.1 - 3162.5 km North.

II. PROJECT AND PROCESS DESCRIPTIONS

The proposed cement plant will be designed to produce 1,800 tons of cement clinker per day by the latest dry process technology. The major equipment of the plant includes a kiln, a clinker cooler, a dryer, a raw mill, storage silos, and conveyer systems. For power and heat supply, a 125 MW power plant will be constructed with the cement plant. The cement plant will utilize the heat generated from the steam and flue gas from the power plant for energy saving. Both cement plant and power plant will use the same baghouse for particulate emission control.

The existing site is presently zoned for mining. Associated with the limestone mining operation is a lime production plant. The limestone and clay used in the production of cement will be supplied on site.

It is estimated that 820,000 tons of limestone fines, 82,000 tons of clay and 21,000 tons of ash will be utilized annually in the cement plant. The limestone and clay will be mixed on the blending conveyor and transported to the rotary dryer where the moisture content of the blended material will be reduced to approximately two percent. The dry limestone/clay mixture, referred to as premix, will then be transported to the raw mill storage silos.

The raw materials, premix, high grade limestone and ash, will be discharged from the respective storage silos through metering systems and transferred to the raw mill. The raw mill will grind the raw materials to a product size of 80 percent minus 200 mesh and dry the materials to a moisture content of less than one percent. The heat for drying will be provided by flue gases from the power plant. The dried ground material will be pneumatically transported to the blending silos. The blended

material will then be transported pneumatically to a preheater section of the kiln. In the preheater, kiln gases are used to heat the material before it passes into the kiln. The clinker is formed in the rotary kiln, and cooled in the clinker cooler, then crushed and transported by deep bucket conveyor to the clinker silo. The exit air from the cooler will be used for combustion air in the kiln and the power plant.

The material from the clinker silo will be blended with about five percent gypsum and transported to the finish mill where the material will be ground to finished size. The gypsum used in the production of Portland cement will be received on site by truck and transferred by belt conveyor into a storage silo. From the finish mill, the cement will be cooled and pneumatically transferred to the finished cement silos. From these silos, the cement will be loaded into trucks for transport from the site.

Low sulfur coal will be used as fuel in the kiln. Coal consumption in the cement plant will be 248 tons daily or approximately 75,000 tons annually.

Florida Crushed Stone Company has submitted an application for the power plant portion of the project under Rule 17-17, "Electrical Power Plant Siting." This Technical Evaluation and Preliminary Determination addresses the cement plant portion of the project which consists of 17 individual sources.

III. EMISSIONS AND CONTROLS

As proposed by Florida Crushed Stone Company, all emission sources addressed in the 17 applications listed in Table 1 are controlled by baghouses. The major emission source in the cement plant is the kiln. The exhaust gases from the kiln discharge into the ambient air through the kiln-power plant baghouse and may result in particulate emissions of up to 49.5 pounds per hour (216 tons/yr). The total particulate emissions from the other 16 sources will be about 20 pounds per hour or 87 tons per year. Therefore, the total particulate emissions from the cement plant will be about 70 pounds per hour (302 tons/yr). All the baghouses used in the proposed cement plant are designed to operate with particulate matter concentrations in the exhaust gas streams of 0.012 to 0.015 grains per actual cubic foot (gr/acf).

The transfer of all dry raw materials, intermediate products and final products within the cement plant is either by enclosed conveyor, air slides, screw conveyors or enclosed elevators. All of the enclosed transfer systems are operated under negative pressure with the gases being vented through baghouses before being discharged to the atmosphere. All storage silos are also vented through baghouses. With the coal receiving

and storage system, water sprays will be used as necessary to control fugitive particulate matter emissions.

IV. RULE APPLICABILITY

The proposed project is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes, and Rule 17-2, Florida Administrative Code (FAC), because it constitutes construction of a facility as defined in Rule 17-2.100 (95). Specifically, the project is subject to review under the provisions of Rule 17-2.500, "Prevention of Significant Deterioration (PSD)," because:

- (1) The proposed project is located in an area designated attainment for all criteria pollutants;
- (2) The proposed project will result in a significant net emissions increase of one or more regulated pollutants;
- (3) The proposed project is a new major facility of a category listed in Table 500-1, Major Facility Categories, and not exempted under any provision of Rule 17-2.500(2).

PSD review consists of a determination of best available control technology (BACT) and an air quality impact analysis for each regulated pollutant for which emissions would increase by a significant net amount. At the emission levels proposed by the applicant, the entire cogeneration project would result in a significant emissions increase of four pollutants: particulate matter (PM), sulfur dioxide (SO₂), nitrogen oxides (NO_x), and carbon monoxide (CO).

The project is also subject to Rule 17-2.600(7)(b), emission limiting standards for new Portland cement plants, and to federal New Source Performance Standards (NSPS), 40 CFR 60.60, Subpart F, adopted by reference in Rule 17-2.660.

V. CONTROL TECHNOLOGY REVIEW

Based on an analysis of the economic, environmental, and energy impacts of the proposed project, the Department has made a preliminary BACT determination for the cement plant, a copy of which is appended to this document. The emission limits from the BACT determination are as follows:

Source and Pollutant

Emission Limit

Kiln - PM	0.30 lb/ton of kiln feed
Kiln - SO ₂	0.60 lb/ton of kiln feed
Kiln - NOx	2.9 lb/ton of kiln feed
Kiln - visible emissions	not to exceed 10% opacity
Clinker cooler - PM	0.10 lb/ton of kiln feed
Clinker cooler - visible emis.	not to exceed 10% opacity
Dryer - visible emissions	not to exceed 10% opacity
Raw Mill - visible emissions	not to exceed 10% opacity

BACT for the sources listed in Table 1 (except the cement kiln) is that visible emissions shall not exceed 5 percent opacity.

The maximum kiln feed rate is 123.8 tons per hour. Based on the BACT determination, the maximum PM, SO₂ and NOx emission rates from the kiln and cooler would be:

<u>Pollutant</u>	<u>Maximum Emissions, lb/hr</u>
PM	49.5
SO ₂	74.3
NOx	359.0

VI. AIR QUALITY IMPACT ANALYSIS

As noted in Section IV., the operation of the FCS cogeneration power plant/cement plant will result in significant emissions of PM, SO₂, NOx, and CO. For purposes of the air quality impact analysis, emissions from the entire cogeneration facility, not just the cement plant alone, are considered.

The air quality impact analysis required for PM, SO₂, NOx, and CO includes:

- * An analysis of existing air quality;
- * A PSD increment analysis (for PM and SO₂ only);
- * An Ambient Air Quality Standards (AAQS) analysis;
- * An analysis of impacts on soils, vegetation, and visibility, and growth-related air quality impacts; and
- * A "good engineering practice (GEP)" stack height analysis.

The analysis of existing air quality generally relies on preconstruction monitoring data collected in accordance with EPA-approved methods. The PSD increment and AAQS analyses depend on air quality modeling carried out in accordance with EPA guidelines.

TABLE 1

BAGHOUSE INVENTORY

<u>Permit No.</u>	<u>Source Name</u>	<u>Estimated PM Emissions</u>	
		<u>lb/hr</u>	<u>TPY</u>
61016	Cement Kiln	49.5	216.0
61019	Raw Materials Bin	0.8	3.5
61012	Pre Mix Bin	0.6	2.6
61013	Fly Ash Bin	0.6	2.6
61017	Raw Meal Transfer	0.3	1.3
61020	Blending Silo	3.3	14.5
61021	Kiln Feed	0.8	3.5
61030	Clinker Silo	0.6	2.6
61032	Clinker Silo	0.6	2.6
61027	Cooler Discharge	0.8	3.5
61033	Silo Discharges	1.8	7.9
61037	Finish Mill	6.4	28.0
61038	Cement Silo Discharge	0.6	2.6
61040	Cement Silo	0.6	2.6
61041	Cement Silo	0.6	2.6
61042	Cement Silo	0.6	2.6
61026	Coal Handling	0.8	3.5
Total Particulate Emission -		69.3	302.5

Based on these required analyses, the Department has reasonable assurance that the proposed FCS facility, as described in this permit and subject to the conditions of approval proposed herein, will not cause or contribute to a violation of any PSD increment or ambient air quality standard. A discussion of the modeling methodology and required analyses follows:

A. Modeling Methodology

The EPA-approved Industrial Source Complex (ISC) dispersion model was used in the air quality impact analysis. Since FCS is also proposing to construct a power plant with the cement plant, the ISC model was used to predict annual, 24-hour and 3-hour average concentrations resulting from point and fugitive emissions sources at the power plant/cement plant site and all other existing and new sources in the vicinity of the proposed facility.

Receptor points in this model were positioned at 1.0 kilometer and 0.1 and 0.5 kilometer intervals, respectively, for determination of annual and short-term concentrations along the plant boundary.

The surface meteorological data used in the model were National Weather Service data collected at Tampa, Florida, during the period 1973-75, 1978 and 1979. Upper air meteorological data used in the model were collected during the same time period at Tampa, Florida. These data represent five consecutive years of available data.

Stack parameters and emission rates used in evaluating the proposed FCS facility are contained in Table 2. (Stack parameters and emission rates from the power plant and coal handling sources are not included in this table, but were included in the modeling.)

B. Analysis of Existing Air Quality

Four months (from May 25, 1982, through September 26, 1982) of preconstruction ambient air quality data were collected by FCS at the proposed site. The instruments (all EPA-reference or the equivalent) were sited in accordance with the recommendations given in Ambient Monitoring Guidelines for Prevention of Significant Deterioration (EPA 450/4-80-012) and operated in accordance with the quality assurance procedures of 40 CFR 58, Appendix B. Data recovery rates for all pollutants subject to PSD review exceeded 85 percent. The results of the monitoring program are summarized in Table 3.

C. PSD Increment Analysis

The proposed FCS facility will be located in an area where the Class II PSD increments apply. However, the

TABLE 2

AND FUGITIVE SOURCE

PROPOSED FLORIDA CRUSHED STONE CEMENT PLANT STACK PARAMETERS AND EMISSION RATES

Emissions Unit	Stack Height (m)	Stack Diameter (m)	Exit Velocity (m/s)	Exit Temperature (K)	Emission Rate g/s		
					PM	SO ₂	NO _x
Cement Kiln ¹	94.50 97.60	4.88	14.66 13.71	389.0 381.00	6.24 6.27	9.36 10.00	45.23 52.42
Raw Materials Bin	30.50	.61	12.90	314.0	.10	--	--
PreMix Bins	38.10	.61	9.70	314.0	.08	--	--
Fly Ash Bin	38.10	.61	9.70	314.0	.08	--	--
Raw Meal Transfer	21.30	.30	12.90	355.0	.04	--	--
Blending Silo	73.20	1.10	13.72	355.0	.42	--	--
Kiln Feed	15.20	.61	9.70	366.0	.10	--	--
Clinker Silo	41.20	.46	14.39	366.0	.08	--	--
Clinker Silo	61.00	.46	14.39	366.0	.08	--	--
Cooler Discharge	8.80	.61	9.70	366.0	.10	--	--
Silo Discharges	15.20	.76	14.48	314.0	.23	--	--
Finish Mill	21.30	1.50	12.93	372.0	.81	--	--
Cement Silo Discharge	15.20	.46	14.39	344.0	.08	--	--
Cement Silos	61.00	.46	14.39	355.0	.30	--	--

¹ Cement kiln and power plant share a common stack, total proposed emissions from which equal: PM, ~~21.8~~ 21.8 g/s; SO₂, ~~157.5~~ 157.5 g/s; NO_x, 161.2 g/s; and CO, 6.3 g/s.

Fugitive Area Source	Release Height (m)	Area Width (m)	PM Emission Rate (g/s/m ²)
Deep Bucket Conveyor	15.0	45.0	0.000212
Iron Ore Storage	15.0	90.0	0.000029
Cement Distribution System	10.0	20.0	0.000125

TABLE 3

SUMMARY OF ONSITE AIR QUALITY DATA FOR FOUR MONTHS BEGINNING
MAY 25, 1982, AND ENDING SEPTEMBER 26, 1982

<u>Pollutant and Time Average</u>	<u>Highest Recorded Concentration</u>	<u>Second-Highest Concentration</u>
SO ₂ (ug/m ³)		
3-hour	16	15
24-hour	4	3
Annual	0	---
PM (ug/m ³)		
24-hour	140	139
Annual	34 ¹	---

¹Geometric mean value based on 37 observations

Chassahowitzka Class I area is within 20 kilometers of the proposed site; therefore, an analysis of Class I impacts was also performed.

There are several sources besides the proposed FCS facility which could affect increment consumption in the area of the proposed site. These are Adams Construction Company, Florida Mining and Materials, and Florida Power Corporation-Crystal River. Modeling results shown in Table 4 predict that the power plant/cement plant facility proposed by FCS, in combination with other increment-affecting sources in the area, will not cause a violation of any Class I or Class II PSD increment. Since separate modeling runs for the cement plant sources alone were not done, the table contains values based on all cement plant and power plant sources. For both SO₂ and PM, the highest, second-highest short-term predicted concentrations are given in the table since five years of meteorological data were used in the modeling.

As shown in the table, the predicted 24-hour SO₂ concentration in the Class I area consumes the highest percent of the PSD Class I increments. The modeling results show the highest, second-highest 24-hour SO₂ impact to be ~~4.0~~ ^{3.2} micrograms per cubic meter at a point ~~22.5~~ kilometers ~~west~~ northwest of the proposed power plant/cement plant kiln stack location in the southeastern corner of Chassahowitzka Class I PSD area. This 24-hour impact consumes about ~~80%~~ ^{64%} of the available 24-hour Class I SO₂ increment. The predicted 24-hour PM concentration in the Class II area consumes the highest percent of the PSD Class II increments. The modeling results show the 24-hour PM impact to be ~~28~~ ¹⁸ micrograms per cubic meter at a point 1.1 kilometers east of the proposed project. This impact is mainly due to fugitive emissions from the power plant/cement plant. This 24-hour impact consumes about ~~75%~~ ^{49%} of the available 24-hour Class II PM increment.

D. AAQS Analysis

Given existing air quality in the area, the proposed FCS facility is not expected to cause or contribute to any violation of AAQS. The results of the AAQS analysis are contained in Table 5. The values contained in this table are based on emissions from all FCS cement and power plant sources.

For both SO₂ and PM, the highest, second-highest short-term predicted concentrations are given in the table since five years of meteorological data were used in the modeling. Based on the monitoring data, FCS has conservatively estimated the short-term PM background value as 112 micrograms per cubic meter and the long-term PM background value as 34 micrograms per cubic meter. The monitoring data show that both the short-term and long-term background SO₂ values can be assumed to be zero because values of zero were measured 97 percent of the time by the SO₂ monitor. For this project, no NO₂ or CO monitoring

TABLE 4

COMPARISON OF NEW SOURCE IMPACTS
WITH PSD INCREMENTS

Pollutant and Time Average	PSD Class I Increment	Predicted Concentration	Percent Increment Consumed	PSD Class II Increment	Predicted Concentration	Percent Increment Consumed
SO ₂ (ug/m ³)						
3-hour	25.0	16.9 15.5	68 62	512	76 64	15 13
24-hour	5.0	4.0 3.2	80 64	91	21 13	23 14
Annual	2.0	0.6 0.1	30 5	20	6 4	30 20
PM (ug/m ³)						
24-hour	10.0	1.8	18	37	28 18	76 49
Annual	5.0	0.4 0.3	8 6	19	2 3	12 16

~~1 includes maximum FCS fugitive emissions impact plus maximum impact of all non-fugitive new source emissions~~

TABLE 5

COMPARISON OF PREDICTED IMPACTS WITH
AMBIENT AIR QUALITY STANDARDS

<u>Pollutant and Time Average</u>	<u>Existing Background</u> ¹	<u>FCS Impact</u>	<u>All Sources</u> ²	<u>Florida AAQS</u>
SO ₂ (ug/m ³)				
3-hour	0	76 64	413 266	1300
24-hour	0	15 13	88 65	260
Annual	0	1.5 1	22 20	60
PM (ug/m ³)				
24-hour	112	27 18	148 146	150
Annual	34	46	51 56	60
NO ₂ (ug/m ³)				
Annual	20	1	---3	100
CO (ug/m ³)				
8-hour	0	<1	---3	10,000
1-hour	0	<10	---3	40,000

1) Existing background as defined by FCS

2) Includes existing background. Maximum FCS impact does not necessarily occur at the same point and time as maximum ambient impact of all sources in the area.

3) Because of insignificant FCS impact, the maximum ambient impact of all sources in the area was not evaluated.

was required by the Department; however, the Department has estimated a background NO₂ value of 20 ug/m³. This value is based upon data gathered elsewhere around the state.

The maximum predicted 24-hour PM impact which includes the background value, the impact of all new and existing sources, and the impact of the proposed FCS sources is ~~148~~¹⁷⁶ micrograms per cubic meter. This impact is predicted to occur ~~1.2~~^{2.0} kilometers east-northeast of the proposed FCS site. ~~Fugitive emissions from the proposed FCS project are the major contributor to this impact (19 micrograms per cubic meter).~~ The maximum predicted annual PM impact is ~~51~~⁵⁵ micrograms per cubic meter and is predicted to occur ~~2.0 kilometers north-northwest~~^{near} of the site. The contribution by FCS sources to this impact is less than ~~1.0~~^{1.0} microgram per cubic meter. The maximum predicted SO₂ impacts are all much less than AAQS as is the maximum predicted annual NO₂ impact. The maximum predicted CO impact was inferred from the SO₂ modeling and is insignificant.

E. Analysis of Impacts on Soils, Vegetation, and Visibility, and Growth-Related Air Quality Impacts.

The maximum ground-level concentrations predicted to occur as a result of emissions from the proposed FCS facility will be below all applicable AAQS including the secondary standards designed to protect public welfare related values. No soils or species of vegetation highly sensitive to these emissions are known to occur onsite, in the site vicinity, or in the Chassahowitzka Class I area.

~~The Department has performed~~ ^A level-II visibility analysis for the power plant/cement plant facility which predicts no adverse impact on the visibility in the Class I area.

The proposed facility will employ persons who are already a part of the west-central Florida work force. This project is not expected stimulate additional growth or shift the nature of the projected growth. Therefore, no significant secondary residential commercial or industrial growth which will adversely affect air quality in the area is expected.

F. GEP Stack Height Evaluation

Regulations published by EPA in the Federal Register of February 8, 1982, define GEP stack height as the maximum nearby building height plus 1.5 times the building height or width, whichever is less. The stack height proposed for the power plant/cement kiln and used in the modeling is ~~310~~³⁷⁵ feet. This stack height is less than the GEP stack height of 375 feet calculated from the FCS plot layout and preliminary building dimensions for the cement plant silo and preheater.

On July 14, 1983, FCS proposed using limestone injection into the boiler to reduce SO₂ emissions by at least 25% to 915 pounds per hour or 0.9 pounds per million BTU. This further reduction could be as low as 20% or as high as 60% depending on the limestone used and how and where it is injected. If 50% SO₂ removal is achieved by injection, the emission rate would be 0.60 lbs/MMBTU. Due to the uncertainty in SO₂ removal by limestone injection into the boiler because of the experimental nature of the process, the efficacy of different limestones, and boiler constraints, the department accepts the applicants proposed emission limits as stipulated to on July 21, 1983 by FCS and Florida Rock Industries. The stipulation also included a particulate emission limitation of 0.03 pounds per million BTU for the power boiler. The department has no objection to the new emission limits as proposed by FCS. However, the department believes that these emission limits are more stringent than would normally be applied to a boiler of the type and age as will be used by FCS. The improvement in air quality impacts resulting in using this experimental technology should allow more industrial growth in the Brooksville area than the original BACT determination.

The new emission limits for Particulate and SO₂ will be as follows:

Pollutant (Power Plant Boiler) Emission Limit

Particulate Matter

0.03 pounds per million Btu heat input, averaging time per Rule 17-2.700

Sulfur Dioxide

0.9 pounds per million Btu heat input, maximum daily average, 915 pounds per hour, maximum 3-hour average when the boiler is operated alone; 965 pounds per hour, maximum 3-hour average, and 0.74 pounds per million Btu heat input, when the boiler and cement plant are operated together.

VII. CONCLUSIONS

Based on the foregoing technical evaluation of the applications and additional information submitted by Florida Crushed Stone Company, the Department has made a preliminary determination that the construction can be approved and that compliance with all applicable state and federal air pollution regulations will be achieved provided certain conditions are met. The general and specific conditions are listed in the attached draft state permits.

VIII. LIST OF ATTACHMENTS

1. Application to Construct Air Pollution Sources (DER Form 17-1.122(16)), for each of 17 sources received on September 30, 1982, revised January 13 and February 16, 1983.
2. Application for State and Federal PSD Approval, Volume I, received September 30, 1982.
3. DER's incompleteness letter to FCS, dated October 29, 1982.
4. FCS's additional information, received on November 3 and 8, 1982.
5. DER's request for additional information, dated Feb. 1, 1983.
6. DER's comments on revised applications to FCS, dated February 14, 1983.
7. FCS's responses to DER, received on February 16, 18, and 25, 1983.
8. DER's additional comments to FCS, dated March 10, 1983.
9. DER's additional comments to FCS, dated March 18, 1983.
10. FCS'S response to DER, received on March 21, 1983.
11. FCS's response to DER, received on March 30, 1983.
12. DER's transmittal of U. S. Fish and Wildlife Service comments to FCS, dated March 30, 1983.
13. FCS's additional information, received on April 1 and 15, 1983.
14. DER's BACT determination for cement plant sources.
15. FCS's additional information, received on August 1, 1983.
16. FCS's additional information, received on October 3, 1983.
17. FCS's additional information, received on October 28, 1983.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

Permit Number: AC 27-61012
Expiration Date: December 31, 1985
County: Hernando
Latitude/Longitude: 28° 35' 00"N/
82° 25' 53"W
Project: Pre Mix Bin

This permit is issued under the provisions of Chapter(s) 403
17-2 and 17-4, Florida Statutes, and Florida Administrative Code Rule(s)
17-2 and 17-4. The above named permittee is hereby
authorized to perform the work or operate the facility shown on
the application and approved drawing(s), plans, and other
documents attached hereto or on file with the department and made
a part hereof and specifically described as follows:

For the construction of a cement plant with 75 tons per hour
clinker product at Florida Crushed Stone Company's existing mining
site in Brooksville, Hernando County, Florida.

Construction shall be in accordance with the attached permit
application and additional information except as otherwise noted
on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61012
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61012
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61012
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61012
Expiration Date: December 31, 1985

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. The allowable particulate emission rate from the pre mix bin baghouse shall be 0.6 pound per hour.
2. The hours of operation shall not exceed 8760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(b)(a)9., FAC).

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61012
Expiration Date: December 31, 1985

SPECIFIC CONDITIONS:

- 4. Compliance with the particulate emission limit in Specific Condition No. 1 shall be demonstrated by EPA Method 5 or 17 (Appendix A, 40 CFR 60).
- 5. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to DER Southwest District office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.
- 6. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.

Issued this ___ day of _____, 1983

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

Permit Number: AC 27-61013
Expiration Date: December 31, 1985
County: Hernando
Latitude/Longitude: 28° 34' 55"N/
82° 25' 53"W
Project: Fly Ash Bin

This permit is issued under the provisions of Chapter(s) 403
17-2 and 17-4, Florida Statutes, and Florida Administrative Code Rule(s)
17-2 and 17-4. The above named permittee is hereby
authorized to perform the work or operate the facility shown on
the application and approved drawing(s), plans, and other
documents attached hereto or on file with the department and made
a part hereof and specifically described as follows:

For the construction of a cement plant with 75 tons per hour
clinker product at Florida Crushed Stone Company's existing mining
site in Brooksville, Hernando County, Florida.

Construction shall be in accordance with the attached permit
application and additional information except as otherwise noted
on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61013
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61013
Expiration Date: December 31, 1985

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61013
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61013
Expiration Date: December 31, 1985

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. The allowable particulate emission rate from the fly ash bin baghouse shall be 0.6 pound per hour.
2. The hours of operation shall not exceed 8760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(b)(a)9., FAC).

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61013
Expiration Date: December 31, 1985

SPECIFIC CONDITIONS:

4. Compliance with the particulate emission limit, in Specific Condition No. 1 shall be demonstrated by EPA Method 5 or 17 (Appendix A, 40 CFR 60).

5. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to DER Southwest District office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.

6. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.

Issued this ___ day of _____, 1983

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

Permit Number: AC 27-61016
Expiration Date: December 31, 1985
County: Hernando
Latitude/Longitude: 28° 34' 57"N/
82° 25' 53"W
Project: Cement Kiln, Clinker
Cooler, Dryer and Raw Mill

This permit is issued under the provisions of Chapter(s) 403
17-2 and 17-4, Florida Statutes, and Florida Administrative Code Rule(s)
17-2 and 17-4. The above named permittee is hereby
authorized to perform the work or operate the facility shown on
the application and approved drawing(s), plans, and other
documents attached hereto or on file with the department and made
a part hereof and specifically described as follows:

For the construction of a cement plant with 75 tons per hour
cement product at Florida Crushed Stone Company's existing mining
site in Brooksville, Hernando County, Florida.

Construction shall be in accordance with the attached permit
application and additional information except as otherwise noted
on pages 5, 6, and 7, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61016
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61016
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61016
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61016
Expiration Date: December 31, 1985

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. Except as required pursuant to DER's BACT determination (attached) the proposed cement plant construction shall be carried out in accordance with the statements in the application and additional information supplied by the permittee.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I.D. Number:
Permit Number: AC 27-61016
Expiration Date: December 31, 1985

SPECIFIC CONDITIONS:

2. The emission rates from the kiln and cooler shall not exceed the emission limits and maximum allowable emissions listed below:

<u>Pollutant</u>	<u>Emission Limits</u> lb/ton of kiln feed	<u>Maximum Allowable Emissions</u>	
		lb/hr	tons/yr
PM (cooler)	0.1	12.4	54
PM (kiln)	0.3	37.1	162
SO ₂	0.6	74.3	325
NO _x	2.9	359.0	1572

3. The hours of operation of the cement plant shall not exceed 8,760 hours per year.

4. Visible emissions from the kiln, cooler, dryer or raw mill shall not be greater than 10 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(b)(a)9., FAC).

5. Compliance with the particulate emission limits in specific condition No. 2 shall be demonstrated in accordance with the EPA Reference Method 5 in Appendix A, 40 CFR 60, as set forth in subsection 60.64 of the NSPS for Portland Cement Plants, 40 CFR 60.60.

6. Compliance with the SO₂ and NO_x emission limits in specific condition No. 2 shall be demonstrated in accordance with EPA Methods 6 and 7, respectively, in 40 CFR 60, Appendix A.

7. The maximum coal consumption in the kiln shall not exceed 10.3 tons per hour.

8. Instruments shall be installed, calibrated, and maintained to continuously measure the amounts of coal used in the kiln, material fed to the kiln, and clinker produced. The records of fuel usage with the fuel analysis, daily kiln feed and clinker produced shall be reported quarterly to the DER Southwest District office.

9. In accordance with Rule 17-2.700(4), FAC, the stack sampling configuration of the proposed kiln shall comply with the minimum of 2D downstream and 0.5 upstream distances to any fan, bend, constriction, or other flow disturbance.

10. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61016
Expiration Date: December 31, 1985

SPECIFIC CONDITIONS:

11. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to the DER Southwest District office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.

12. Prior to submitting an application for an operating permit, the permittee shall request that the allowable particulate emission rates from the following Chemical Lime Company sources be reduced to the following values:

<u>Sources</u>	<u>Permit No.</u>	<u>Particulate Emission Limit (lb/hr)</u>
Kiln	AO 27-55581 ¹	<u>18.0</u>
Hydrator	AO 27-25269	<u>14.0</u>
Dryer	AO 27-50400	<u>16.0</u>
Bagging	AO 27-17352 382	<u>6.0</u>

Issued this ___ day of _____, 1983

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

Page 7 of 7.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

Permit Number: AC 27-61017
Expiration Date: December 31, 1985
County: Hernando
Latitude/Longitude: 28° 34' 55"N/
82° 25' 52"W
Project: Raw Meal Transfer

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the construction of a cement plant with 75 tons per hour clinker product at Florida Crushed Stone Company's existing mining site in Brooksville, Hernando County, Florida.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61017
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61017
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61017
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61017
Expiration Date: December 31, 1985

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. The allowable particulate emission rate from the raw mill baghouse shall be 0.3 pound per hour.
2. The hours of operation shall not exceed 8760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(b)(a)9., FAC).

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61017
Expiration Date: December 31, 1985

SPECIFIC CONDITIONS:

4. Compliance with the particulate emission limit in Specific Condition No. 1 shall be demonstrated by EPA Method 5 or 17 (Appendix A, 40 CFR 60).

5. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to DER Southwest District office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.

6. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.

Issued this ___ day of _____, 1983

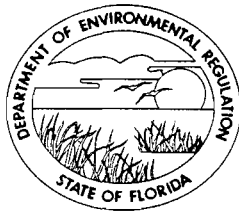
**STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION**

VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

Permit Number: AC 27-61019
Expiration Date: December 31, 1985
County: Hernando
Latitude/Longitude: 28° 35' 00"N/
82° 25' 55"W
Project: Raw Materials Bin

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the construction of a cement plant with 75 tons per hour clinker product at Florida Crushed Stone Company's existing mining site in Brooksville, Hernando County, Florida.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61019
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61019
Expiration Date: December 31, 1985

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61019
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61019
Expiration Date: December 31, 1985

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. The allowable particulate emission rate from the raw materials baghouse shall be 0.8 pound per hour.
2. The hours of operation shall not exceed 8760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(b)(a)9., FAC).

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61019
Expiration Date: December 31, 1985

SPECIFIC CONDITIONS:

4. Compliance with the particulate emission limit in Specific Condition No. 1 shall be demonstrated by EPA Method 5 or 17 (Appendix A, 40 CFR 60).
5. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to DER Southwest District office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.
6. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.

Issued this ___ day of _____, 1983

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

Permit Number: AC 27-61020
Expiration Date: December 31, 1985
County: Hernando
Latitude/Longitude: 28° 34' 54"N/
82° 25' 52"W
Project: Blending Silo

This permit is issued under the provisions of Chapter(s) 403
17-2 and 17-4, Florida Statutes, and Florida Administrative Code Rule(s)
17-2 and 17-4. The above named permittee is hereby
authorized to perform the work or operate the facility shown on
the application and approved drawing(s), plans, and other
documents attached hereto or on file with the department and made
a part hereof and specifically described as follows:

For the construction of a cement plant with 75 tons per hour
clinker product at Florida Crushed Stone Company's existing mining
site in Brooksville, Hernando County, Florida.

Construction shall be in accordance with the attached permit
application and additional information except as otherwise noted
on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61020
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61020
Expiration Date: December 31, 1985

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61020
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61020
Expiration Date: December 31, 1985

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. The allowable particulate emission rate from the blending silo baghouse shall be 3.3 pounds per hour.
2. The hours of operation shall not exceed 8760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(b)(a)9., FAC).

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61020
Expiration Date: December 31, 1985

SPECIFIC CONDITIONS:

4. Compliance with the particulate emission limit in Specific Condition No. 1 shall be demonstrated by EPA Method 5 or 17 (Appendix A, 40 CFR 60).
5. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to DER Southwest District office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.
6. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.

Issued this ___ day of _____, 1983

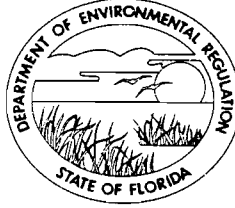
**STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION**

VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

Permit Number: AC 27-61021
Expiration Date: December 31, 1985
County: Hernando
Latitude/Longitude: 28° 34' 54"N/
82° 25' 52"W
Project: Kiln Feed

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the construction of a cement plant with 75 tons per hour clinker product at Florida Crushed Stone Company's existing mining site in Brooksville, Hernando County, Florida.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61021
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

eERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61021
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61021
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61021
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. The allowable particulate emission rate from the kiln feed baghouse shall be 0.8 pound per hour.
2. The hours of operation shall not exceed 8760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(b)(a)9., FAC).

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61021
Expiration Date: December 31, 1985

SPECIFIC CONDITIONS:

4. Compliance with the particulate emission limit in Specific Condition No. 1 shall be demonstrated by EPA Method 5 or 17 (Appendix A, 40 CFR 60).

5. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to DER Southwest District office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.

6. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.

Issued this ___ day of _____, 1983

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

Permit Number: AC 27-61026
Expiration Date: December 31, 1985
County: Hernando
Latitude/Longitude: 28° 34' 51"N/
82° 25' 50"W
Project: Raw Coal Handling

This permit is issued under the provisions of Chapter(s) 403
17-2 and 17-4, Florida Statutes, and Florida Administrative Code Rule(s)
17-2 and 17-4. The above named permittee is hereby
authorized to perform the work or operate the facility shown on
the application and approved drawing(s), plans, and other
documents attached hereto or on file with the department and made
a part hereof and specifically described as follows:

For the construction of a cement plant with 75 tons per hour
clinker product at Florida Crushed Stone Company's existing mining
site in Brooksville, Hernando County, Florida.

Construction shall be in accordance with the attached permit
application and additional information except as otherwise noted
on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61026
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61026
Expiration Date: December 31, 1985

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61026
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61026
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. The allowable particulate emission rate from the raw coal handling baghouse shall be 0.8 pound per hour.
2. The hours of operation shall not exceed 8760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(b)(a)9., FAC).

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61026
Expiration Date: December 31, 1985

SPECIFIC CONDITIONS:

4. Compliance with the particulate emission limit in Specific Condition No. 1 shall be demonstrated by EPA Method 5 or 17 (Appendix A, 40 CFR 60).

5. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to DER Southwest District office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.

6. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.

7. A water spray system shall be installed and used as necessary to control fugitive dust emissions during coal unloading operation from train cars to the receiving area.

Issued this ___ day of _____, 1983

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

Permit Number: AC 27-61027
Expiration Date: December 31, 1985
County: Hernando
Latitude/Longitude: 28° 34' 51"N/
82° 25' 50"W
Project: Cooler Discharge

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the construction of a cement plant with 75 tons per hour clinker product at Florida Crushed Stone Company's existing mining site in Brooksville, Hernando County, Florida.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61027
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61027
Expiration Date: December 31, 1985

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61027
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61030
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. The allowable particulate emission rate from the clinker silo baghouse shall be 0.8 pound per hour.
2. The hours of operation shall not exceed 8760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(b)(a)9., FAC).

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61027
Expiration Date: December 31, 1985

SPECIFIC CONDITIONS:

4. Compliance with the particulate emission limit in Specific Condition No. 1 shall be demonstrated by EPA Method 5 or 17 (Appendix A, 40 CFR 60).

5. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to DER Southwest District office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.

6. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.

Issued this ___ day of _____, 1983

**STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION**

VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

Permit Number: AC 27-61030
Expiration Date: December 31, 1985
County: Hernando
Latitude/Longitude: 28° 34' 48"N/
82° 25' 49"W
Project: Clinker Silo (L-06)

This permit is issued under the provisions of Chapter(s) 403
17-2 and 17-4, Florida Statutes, and Florida Administrative Code Rule(s)
17-2 and 17-4. The above named permittee is hereby
authorized to perform the work or operate the facility shown on
the application and approved drawing(s), plans, and other
documents attached hereto or on file with the department and made
a part hereof and specifically described as follows:

For the construction of a cement plant with 75 tons per hour
clinker product at Florida Crushed Stone Company's existing mining
site in Brooksville, Hernando County, Florida.

Construction shall be in accordance with the attached permit
application and additional information except as otherwise noted
on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61030
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61030
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61030
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61030
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. The allowable particulate emission rate from the clinker silo baghouse shall be 0.8 pound per hour.
2. The hours of operation shall not exceed 8760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(b)(a)9., FAC).

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61030
Expiration Date: December 31, 1985

SPECIFIC CONDITIONS:

4. Compliance with the particulate emission limit in Specific Condition No. 1 shall be demonstrated by EPA Method 5 or 17 (Appendix A, 40 CFR 60).

5. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to DER Southwest District office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.

6. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.

Issued this ___ day of _____, 1983

**STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION**

VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

Permit Number: AC 27-61032
Expiration Date: December 31, 1985
County: Hernando
Latitude/Longitude: 28° 34' 49"N/
82° 25' 49"W
Project: Clinker Silo (L-08)

This permit is issued under the provisions of Chapter(s) 403
17-2 and 17-4, Florida Statutes, and Florida Administrative Code Rule(s)
17-2 and 17-4. The above named permittee is hereby
authorized to perform the work or operate the facility shown on
the application and approved drawing(s), plans, and other
documents attached hereto or on file with the department and made
a part hereof and specifically described as follows:

For the construction of a cement plant with 75 tons per hour
clinker product at Florida Crushed Stone Company's existing mining
site in Brooksville, Hernando County, Florida.

Construction shall be in accordance with the attached permit
application and additional information except as otherwise noted
on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61032
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61032
Expiration Date: December 31, 1985

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61032
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61032
Expiration Date: December 31, 1985

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. The allowable particulate emission rate from the clinker silo baghouse shall be 0.6 pound per hour.
2. The hours of operation shall not exceed 8760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(b)(a)9., FAC).

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61032
Expiration Date: December 31, 1985

SPECIFIC CONDITIONS:

4. Compliance with the particulate emission limit in Specific Condition No. 1 shall be demonstrated by EPA Method 5 or 17 (Appendix A, 40 CFR 60).

5. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to DER Southwest District office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.

6. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.

Issued this ___ day of _____, 1983

**STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION**

VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

Permit Number: AC 27-61033
Expiration Date: December 31, 1985
County: Hernando
Latitude/Longitude: 28° 34' 48"N/
82° 25' 50"W
Project: Silo Discharge

This permit is issued under the provisions of Chapter(s) 403
17-2 and 17-4, Florida Statutes, and Florida Administrative Code Rule(s)
17-2 and 17-4. The above named permittee is hereby
authorized to perform the work or operate the facility shown on
the application and approved drawing(s), plans, and other
documents attached hereto or on file with the department and made
a part hereof and specifically described as follows:

For the construction of a cement plant with 75 tons per hour
clinker product at Florida Crushed Stone Company's existing mining
site in Brooksville, Hernando County, Florida.

Construction shall be in accordance with the attached permit
application and additional information except as otherwise noted
on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61033
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61033
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61033
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61033
Expiration Date: December 31, 1985

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. The allowable particulate emission rate from the silo discharge baghouse shall be 1.8 pounds per hour.
2. The hours of operation shall not exceed 8760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(b)(a)9., FAC).

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61033
Expiration Date: December 31, 1985

SPECIFIC CONDITIONS:

4. Compliance with the particulate emission limit in Specific Condition No. 1 shall be demonstrated by EPA Method 5 or 17 (Appendix A, 40 CFR 60).

5. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to DER Southwest District office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.

6. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.

Issued this ___ day of _____, 1983

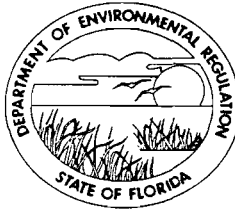
**STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION**

VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

Permit Number: AC 27-61037
Expiration Date: December 31, 1985
County: Hernando
Latitude/Longitude: 28° 34' 49"N/
82° 25' 49"W
Project: Finish Mill

This permit is issued under the provisions of Chapter(s) 403
17-2 and 17-4, Florida Statutes, and Florida Administrative Code Rule(s)
17-2 and 17-4. The above named permittee is hereby
authorized to perform the work or operate the facility shown on
the application and approved drawing(s), plans, and other
documents attached hereto or on file with the department and made
a part hereof and specifically described as follows:

For the construction of a cement plant with 75 tons per hour
clinker product at Florida Crushed Stone Company's existing mining
site in Brooksville, Hernando County, Florida.

Construction shall be in accordance with the attached permit
application and additional information except as otherwise noted
on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61037
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61037
Expiration Date: December 31, 1985

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61037
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61037
Expiration Date: December 31, 1985

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. The allowable particulate emission rate from the finish mill baghouse shall be 6.4 pounds per hour.
2. The hours of operation shall not exceed 8760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(b)(a)9., FAC).

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61037
Expiration Date: December 31, 1985

SPECIFIC CONDITIONS:

4. Compliance with the particulate emission limit in Specific Condition No. 1 shall be demonstrated by EPA Method 5 or 17 (Appendix A, 40 CFR 60).

5. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to DER Southwest District office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.

6. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.

Issued this ___ day of _____, 1983

**STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION**

VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

Permit Number: AC 27-61038
Expiration Date: December 31, 1985
County: Hernando
Latitude/Longitude: 28° 34' 47"N/
82° 25' 49"W
Project: Cement Silo Discharge

This permit is issued under the provisions of Chapter(s) 403
17-2 and 17-4, Florida Statutes, and Florida Administrative Code Rule(s)
17-2 and 17-4. The above named permittee is hereby
authorized to perform the work or operate the facility shown on
the application and approved drawing(s), plans, and other
documents attached hereto or on file with the department and made
a part hereof and specifically described as follows:

For the construction of a cement plant with 75 tons per hour
clinker product at Florida Crushed Stone Company's existing mining
site in Brooksville, Hernando County, Florida.

Construction shall be in accordance with the attached permit
application and additional information except as otherwise noted
on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61038
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61038
Expiration Date: December 31, 1985

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61038
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

ePERMITTEE:

Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:

Permit Number: AC 27-61038

Expiration Date: December 31, 1985

GENERAL CONDITIONS:

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. The allowable particulate emission rate from the cement silo discharge baghouse shall be 0.6 pound per hour.
2. The hours of operation shall not exceed 8760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(b)(a)9., FAC).

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61038
Expiration Date: December 31, 1985

SPECIFIC CONDITIONS:

4. Compliance with the particulate emission limit in Specific Condition No. 1 shall be demonstrated by EPA Method 5 or 17 (Appendix A, 40 CFR 60).

5. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to DER Southwest District office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.

6. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.

Issued this ___ day of _____, 1983

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

Permit Number: AC 27-61040
Expiration Date: December 31, 1985
County: Hernando
Latitude/Longitude: 28° 34' 48"N/
82° 25' 49"W
Project: Cement Silo (Q-15A)

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the construction of a cement plant with 75 tons per hour clinker product at Florida Crushed Stone Company's existing mining site in Brooksville, Hernando County, Florida.

Construction shall be in accordance with the attached permit application and additional information except as otherwise noted on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61040
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61040
Expiration Date: December 31, 1985

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61040
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

ePERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61040
Expiration Date: December 31, 1985

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. The allowable particulate emission rate from the cement silo baghouse shall be 0.6 pound per hour.
2. The hours of operation shall not exceed 8760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(b)(a)9., FAC).

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61040
Expiration Date: December 31, 1985

SPECIFIC CONDITIONS:

4. Compliance with the particulate emission limit in Specific Condition No. 1 shall be demonstrated by EPA Method 5 or 17 (Appendix A, 40 CFR 60).
5. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to DER Southwest District office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.
6. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.

Issued this ___ day of _____, 1983

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61041
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61041
Expiration Date: December 31, 1985

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61041
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61041
Expiration Date: December 31, 1985

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. The allowable particulate emission rate from the cement silo baghouse shall be 0.6 pound per hour.
2. The hours of operation shall not exceed 8760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(b)(a)9., FAC).

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61041
Expiration Date: December 31, 1985

SPECIFIC CONDITIONS:

4. Compliance with the particulate emission limit in Specific Condition No. 1 shall be demonstrated by EPA Method 5 or 17 (Appendix A, 40 CFR 60).

5. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to DER Southwest District office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.

6. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.

Issued this ___ day of _____, 1983

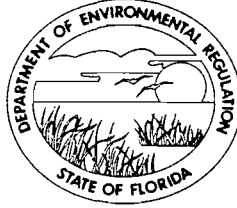
STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

Permit Number: AC 27-61042
Expiration Date: December 31, 1985
County: Hernando
Latitude/Longitude: 28° 34' 48"N/
82° 25' 49"W
Project: Cement Silo (Q-15C)

This permit is issued under the provisions of Chapter(s) 403
17-2 and 17-4, Florida Statutes, and Florida Administrative Code Rule(s)
17-2 and 17-4. The above named permittee is hereby
authorized to perform the work or operate the facility shown on
the application and approved drawing(s), plans, and other
documents attached hereto or on file with the department and made
a part hereof and specifically described as follows:

For the construction of a cement plant with 75 tons per hour
clinker product at Florida Crushed Stone Company's existing mining
site in Brooksville, Hernando County, Florida.

Construction shall be in accordance with the attached permit
application and additional information except as otherwise noted
on pages 5 and 6, Specific Conditions.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61042
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61042
Expiration Date: December 31, 1985

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61042
Expiration Date: December 31, 1985

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748
GENERAL CONDITIONS:

I. D. Number:
Permit Number: AC 27-61042
Expiration Date: December 31, 1985

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

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

SPECIFIC CONDITIONS:

1. The allowable particulate emission rate from the cement silo baghouse shall be 0.6 pound per hour.
2. The hours of operation shall not exceed 8760 hours per year.
3. Visible emissions shall not be greater than 5 percent opacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(b)(a)9., FAC).

PERMITTEE:
Florida Crushed Stone Co.
P. O. Box 317
Leesburg, FL 32748

I. D. Number:
Permit Number: AC 27-61042
Expiration Date: December 31, 1985

SPECIFIC CONDITIONS:

4. Compliance with the particulate emission limit in Specific Condition No. 1 shall be demonstrated by EPA Method 5 or 17 (Appendix A, 40 CFR 60).

5. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to DER Southwest District office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.

6. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.

Issued this ___ day of _____, 1983

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

VICTORIA J. TSCHINKEL, Secretary

___ pages attached.

Technical Evaluation
and
Preliminary Determination

Florida Crushed Stone Company
Power Plant/Cement Plant Cogeneration Facility

Permit Numbers
PSD-FL-090
PSD-FL-091

Florida Department of Environmental Regulation
Bureau of Air Quality Management
Central Air Permitting

May 24, 1983

I. APPLICANT AND SOURCE LOCATION

A. Applicant

Florida Crushed Stone (FCS) Company
P. O. Box 317
Leesburg, FL 32748

B. Location

The proposed construction, a combined 125 MW power plant and 600,000 ton-per-year Portland cement plant, is located in Hernando County, approximately 3.5 miles northwest of Brooksville, Florida. The plant will be located on 6,400 acres of property owned by Florida Crushed Stone. The UTM coordinates of the plant are 360.0 - 360.1 km East and 3162.1 - 3162.5 km North.

II. PROJECT AND PROCESS DESCRIPTIONS

The proposed power plant/cement plant facility will be designed to produce 1,800 tons of cement clinker per day by the latest dry process technology. The major equipment of the plant includes a kiln, a clinker cooler, a dryer, a raw mill, storage silos, and conveyer systems. For power and heat supply, a 125 MW power plant will be constructed with the cement plant. The cement plant will utilize the heat generated from the steam and flue gas from the power plant for energy saving. In addition, the cement plant will consume about 25 MW of the electric power generated, with the excess to be sold to Florida Power Corporation for distribution to the Florida electric power grid. Both cement plant and power plant will use the same baghouse for particulate emission control.

The existing site is presently zoned for mining. Associated with the limestone mining operation is a lime production plant. The limestone and clay used in the production of cement will be supplied on site.

It is estimated that 820,000 tons of limestone fines, 82,000 tons of clay and 21,000 tons of ash will be utilized annually in the cement plant. The limestone and clay will be mixed on the blending conveyor and transported to the rotary dryer where the moisture content of the blended material will be reduced to approximately two percent. The dry limestone/clay mixture, referred to as premix, will then be transported to the raw mill storage silos.

The raw materials, premix, high grade limestone and ash, will be discharged from the respective storage silos through metering systems and transferred to the raw mill. The raw mill will grind the raw materials to a product size of 80 percent minus 200 mesh and dry the materials to a moisture content of

less than one percent. The heat for drying will be provided by flue gases from the power plant. The dried ground material will be pneumatically transported to the blending silos. The blended material will then be transported pneumatically to a preheater section of the kiln. In the preheater, kiln gases are used to heat the material before it passes into the kiln. The clinker is formed in the rotary kiln, and cooled in the clinker cooler, then crushed and transported by deep bucket conveyor to the clinker silo. The exit air from the cooler will be used for combustion air in the kiln and the power plant.

The material from the clinker silo will be blended with about five percent gypsum and transported to the finish mill where the material will be ground to finished size. The gypsum used in the production of Portland cement will be received on site by truck and transferred by belt conveyor into a storage silo. From the finish mill, the cement will be cooled and pneumatically transferred to the finished cement silos. From these silos, the cement will be loaded into trucks for transport from the site.

Low sulfur coal will be used as fuel in the kiln and the power plant. Coal consumption in the cement plant will be 248 tons daily or approximately 75,000 tons annually. Maximum coal consumption in the power plant will be 1200 tons daily or approximately 438,000 tons annually.

III. EMISSIONS AND CONTROLS

With respect to the power plant boiler, Florida Crushed Stone proposes to install a baghouse to limit particulate emissions to 0.1 pounds per million Btu heat input. A sulfur dioxide emission limit of 1.2 pounds per million Btu heat input will be achieved by firing low sulfur content coal (approximately 0.7% S). A nitrogen oxides emission limit of 0.7 pounds per million Btu heat input will be met through the use of low-NOx burners. A covered coal conveyor and baghouse will be used to limit fugitive emissions from the boiler coal bin coal handling system.

As proposed by FCS, all emission sources associated with the cement plant portion of the project will also be controlled by baghouses (see Table 1). The major emission source in the cement plant is the kiln. The exhaust gases from the kiln discharge into the ambient air through the kiln/power plant baghouse and may result in particulate emissions of up to 49.5 pounds per hour (216 tons/yr). The total particulate emissions from the other 16 sources will be about 20 pounds per hour or 87 tons per year. Therefore, the total particulate emissions from the cement plant will be about 70 pounds per hour (302 tons/yr). All the baghouses used in the proposed cement plant are designed to operate with particulate matter concentrations in the exhaust gas streams of 0.012 to 0.015 grains per actual cubic foot (gr/acf).

TABLE 1

BAGHOUSE INVENTORY

Florida Permit No. (AC 27 -)	Source Name	Estimated PM Emissions	
		lb/hr	TPY
61016	Cement Kiln	49.5	216.0
61019	Raw Materials Bin	0.8	3.5
61012	Pre Mix Bin	0.6	2.6
61013	Fly Ash Bin	0.6	2.6
61017	Raw Meal Transfer	0.3	1.3
61020	Blending Silo	3.3	14.5
61021	Kiln Feed	0.8	3.5
61030	Clinker Silo	0.6	2.6
61032	Clinker Silo	0.6	2.6
61027	Cooler Discharge	0.8	3.5
61033	Silo Discharges	1.8	7.9
61037	Finish Mill	6.4	28.0
61038	Cement Silo Discharge	0.6	2.6
61040	Cement Silo	0.6	2.6
61041	Cement Silo	0.6	2.6
61042	Cement Silo	0.6	2.6
61026	Coal Handling	0.8	3.5
Total Particulate Emission -		69.3	302.5

The transfer of all dry raw materials, intermediate products and final products within the cement plant is either by enclosed conveyor, air slides, screw conveyors or enclosed elevators. All of the enclosed transfer systems are operated under negative pressure with the gases being vented through baghouses before being discharged to the atmosphere. All storage silos are also vented through baghouses. With the coal receiving and storage system, water sprays will be used as necessary to control fugitive particulate matter emissions.

IV. RULE APPLICABILITY

The maximum emissions for the proposed project and significant emission rates (40 CFR 52.21(b)(23)), in tons per year, are as follows:

<u>Pollutant</u>	<u>Maximum Emissions</u>	<u>Significant Emission Rate</u>
Particulate Matter (PM)	595	25
Sulfur Dioxide (SO ₂)	5475	40
Nitrogen Oxides (NO _x)	~ 4598	40
Carbon Monoxide (CO)	197	100
Hydrocarbons (HC)	59*	40 (VOC)

* non-methane HC emissions (VOC) will be less than 40 tons per year

The proposed project is subject to preconstruction review under the provisions of 40 CFR 52.21, "Prevention of Significant Deterioration (PSD)," because:

- (1) The proposed project is located in an area designated attainment for all criteria pollutants;
- (2) The proposed project will result in a significant net emissions increase of one or more regulated pollutants;
- (3) The proposed project is a new major stationary source (40 CFR 52.21(b)(1)(i)) and not exempted from PSD review under any provision of 40 CFR 52.21(i).

PSD review consists of a determination of best available control technology (BACT) and an air quality impact analysis for each regulated pollutant for which emissions would increase by a significant net amount. At the emission levels proposed by the applicant, the project would result in a significant emissions increase of four pollutants: particulate matter (PM), sulfur dioxide (SO₂), nitrogen oxides (NO_x), and carbon monoxide (CO).

~~Based on the~~
~~agreement~~

~~Control Technology Review~~

The proposed boiler is not subject to federal new source performance standards (NSPS) as a new boiler, because it was constructed in another state prior to the August 17, 1971, and September 18, 1978, applicability dates for 40 CFR 60.40, Subparts D and Da, respectively.

The proposed boiler is also not subject to NSPS as a modification or as reconstruction. Though fired with oil prior to its removal from service in 1977, the boiler was originally designed to accommodate the firing of coal as an alternate fuel. Therefore, the conversion from oil to coal firing is not a modification as set forth in 40 CFR 60.14(e)(4). Also, a change in ownership or relocation does not constitute a modification (40 CFR 60.4(e)(b)). The unit will require the replacement of several components which will be purchased new. However, the cost of the replacement components is not sufficient to trigger the reconstruction provisions of 40 CFR 60.15.

The cement plant portion of the proposed project is subject to the NSPS for new Portland cement plants, 40 CFR 60.60, Subpart F. The BACT determination for this portion of the project must be at least as stringent as the NSPS.

V. CONTROL TECHNOLOGY REVIEW

Based on an analysis of the economic, environmental, and energy impacts of the proposed project, the Department has made preliminary BACT determinations for the power plant (PSD-FL-090) and cement plant (PSD-FL-091) portions of the project, the details of which are as follows:

A. Power Plant (PSD-FL-090)

The emission limits from the BACT determination for the power plant portion of the project are as follows:

Replace with Revised BACT

<u>Pollutant (Power Plant Boiler)</u>	<u>Emission Limit</u>
Particulate Matter	0.10 pounds per million Btu heat input, averaging time per 40 CFR 60.46.
Sulfur Dioxide	1.2 pounds per million Btu heat input, maximum daily average, and 1,200 pounds per hour, maximum 3-hour average, when the boiler is operated alone; 1250 pounds per hour, maximum 3-hour average, when the boiler and cement plant are operated together.

Florida Crushed Stone proposes to control gaseous emissions by various methods. Sulfur dioxide emissions will be reduced by firing low sulfur coal, 0.75 percent, with limestone injection into the boiler, an emerging Flue Gas Desulfurization (FGD) technology. Low NO_x burners are proposed by FCS for NO_x emissions control.

Combustion gas streams from the boiler and the cement plant will exhaust through a common pathway to the atmosphere.

Florida, 4

Nitrogen Oxides

0.7 pounds per million Btu heat input, averaging time per 40 CFR 60.46.

Visible Emissions
(Power Plant Boiler)

Not greater than 20 percent opacity, six-minute average, except for one six-minute period per hour of not more than 27 percent opacity

Visible Emissions
(Fugitive Emissions)

Not greater than 10 percent opacity, six-minute average

Power Plant BACT Determination Rationale

Florida Crushed Stone proposes to use a baghouse to control particulate matter emissions from the combined power plant/cement kiln exhaust gas stream. Fabric filters have the advantage of being able to operate independently of the gas flow rate and should be able to operate effectively over the wide range of gas flows expected in the Florida Crushed Stone system. Other advantages include a high efficiency for removing particles with a high resistivity, the collection of particulate matter in a dry form, and a relatively low operational cost (low pressure drop).

Disadvantages of the fabric filters include a relatively high capital cost and a relatively high maintenance cost due to bag replacement.

Florida Crushed Stone proposes the use of low sulfur coal, 0.75 percent, for SO₂ emission control. The use of low sulfur coal is proposed since it is the most cost-effective means of achieving the emission limitation. Low-NOx burners are proposed by Florida Crushed Stone for NOx emissions control.

Hydrocarbon and carbon monoxide emissions from the proposed power plant will result from the incomplete combustion of the fuel. These emissions will be minimized by balancing boiler operating parameters to achieve an optimum balance between complete combustion and excessive nitrogen oxides emissions.

Additional BACT Considerations

The proposed site is in an area dedicated to long-term mining of limestone and manufacturing of cement, but it is only about 20 kilometers south-southeast of the Chassahowitzka National Wilderness Area, a Class I PSD area. Air quality modeling predicts the SO₂ impact to approach the 24-hour PSD increment of 5 ug/m³. Some SO₂ removal from the boiler flue gases is expected due to the alkalinity of the dust removed from the cement plant gas stream. However, the boiler may operate when the cement plant is down, and in that mode the amount of SO₂ removed would be negligible,

by cement dust

~~and if the impact of limestone NO_x cannot be reduced to the compliance boiler output will be reduced as needed to meet the 715 pounds per hour SO₂ source cap.~~

Add the underlined section written by Buck on
p. 32 of his AP report + p. 32a (the conditions)

~~At the end of the first underlined paragraph on p. 32~~

~~the following~~ However



To minimize the impact of SO₂ emissions on long-term regional development, the Department, ^{had previously determined prior to July 14, 1983,} ~~has determined~~ that the power plant, operating independently, ^{should} ~~shall~~ not be allowed to emit SO₂ in excess of 1200 pounds per hour (the equivalent of 100 MW output, or the excess generating capacity of the facility). In addition, the Department ^{had} ~~has~~ determined that the power plant and cement plant, operating together, ^{should} ~~shall~~ not be allowed to emit SO₂ in excess of 1250 pounds per hour (the equivalent of a 30% overall in-process SO₂ removal efficiency). To verify these limits, the Department has determined that BACT will include the installation of a continuous SO₂ monitor. The analyzer data will produce a record of SO₂ emissions during the various operating modes. These data would not be obtainable with periodic manual stack tests.

B. Cement Plant (PSD-FL-091)

The emission limits from the cement plant portion of the project are as follows:

<u>Source and Pollutant</u>	<u>Emission Limit</u>
Kiln - PM	0.30 lb/ton of kiln feed
Kiln - SO ₂	0.60 lb/ton of kiln feed
Kiln - NOx	2.9 lb/ton of kiln feed
Kiln - visible emissions	not to exceed 10% opacity
Clinker cooler - PM	0.10 lb/ton of kiln feed
Clinker cooler - visible emis.	not to exceed 10% opacity
Dryer - visible emissions	not to exceed 10% opacity
Raw Mill - visible emissions	not to exceed 10% opacity

BACT for the sources listed in Table 1 (except the cement kiln) is that visible emissions shall not exceed 5 percent opacity.

The maximum kiln feed rate is 123.8 tons per hour. Based on the BACT determination, the maximum PM, SO₂ and NOx emission rates from the kiln and cooler would be:

<u>Pollutant</u>	<u>Maximum Emissions, lb/hr</u>
PM	49.5
SO ₂	74.3
NOx	359.0

Cement Plant BACT Determination Rationale

The NSPS visible emission limitation for the clinker cooler, dryer and raw mill exhaust gases is less than 10 percent opacity, and the cement kiln exhaust gases must not exceed 20 percent opacity. Exhaust gases from all four sources pass through a common baghouse and only one VE limitation would be practical. The visible emissions BACT for these four sources and the baghouse was determined to be the 10 percent.

BACT for particulate emissions was determined to be equivalent to NSPS for Portland Cement Plants, 40 CFR 60.60, Subpart F.

BACT for SO₂ emissions from the cement kiln was determined to be equal to 25 percent of the rate calculated from the emission factor in AP-42, Table 1.1-2. The 75 percent reduction in SO₂ emissions is due to the alkaline nature and affinity for SO₂ of the material being processed.

BACT for the sources listed in Table 1, other than the cement kiln, is that the exhaust gases must not exhibit greater than 5 percent opacity. The department feels the 5 percent opacity determined as BACT, which is more stringent than the NSPS standard, is attainable with a baghouse.

BACT for NO_x emissions from the cement kiln was determined to be equal to 360 pounds per hour. This rate was obtained from the EPA-BACT clearinghouse report.

VI. AIR QUALITY IMPACT ANALYSIS

As noted in Section IV., the operation of the Florida Crushed Stone cogeneration power plant/cement plant will result in significant emissions of PM, SO₂, NO_x, and CO. The air quality impact analysis required for these pollutants includes:

- * An analysis of existing air quality;
- * A PSD increment analysis (for PM and SO₂ only);
- * An Ambient Air Quality Standards (AAQS) analysis;
- * An analysis of impacts on soils, vegetation, and visibility, and growth-related air quality impacts; and
- * A "good engineering practice (GEP)" stack height analysis.

The analysis of existing air quality generally relies on preconstruction monitoring data collected in accordance with EPA-approved methods. The PSD increment and AAQS analyses depend on air quality modeling carried out in accordance with EPA guidelines.

Based on these required analyses, the Department has reasonable assurance that the proposed FCS facility, as described in this permit and subject to the conditions of approval proposed herein, will not cause or contribute to a violation of any PSD increment or ambient air quality standard. A discussion of the modeling methodology and required analyses follows.

A. Modeling Methodology

The EPA-approved Industrial Source Complex (ISC) dispersion model was used in the air quality impact analysis. Since FCS is also proposing to construct a power plant with the cement plant, the ISC model was used to predict annual, 24-hour and 3-hour average concentrations resulting from point and fugitive emissions sources at the power plant/cement plant site and all other existing and new sources in the vicinity of the proposed facility.

Receptor points in this model were positioned at 1.0 kilometer and 0.1 and 0.5 kilometer intervals, respectively, for determination of annual and short-term concentrations along the plant boundary.

The surface meteorological data used in the model were National Weather Service data collected at Tampa, Florida, during the period 1973-75, 1978 and 1979. Upper air meteorological data used in the model were collected during the same time period at Tampa, Florida. These data represent five consecutive years of available data.

Stack parameters and emission rates used in evaluating the proposed FCS facility are contained in Tables 2 and 3.

B. Analysis of Existing Air Quality

Four months (from May 25, 1982, through September 26, 1982) of preconstruction ambient air quality data were collected by FCS at the proposed site. The instruments (all EPA-reference or the equivalent) were sited in accordance with the recommendations given in Ambient Monitoring Guidelines for Prevention of Significant Deterioration (EPA 450/4-80-012) and operated in accordance with the quality assurance procedures of 40 CFR 58, Appendix B. Data recovery rates for all pollutants subject to PSD review exceeded 85 percent. The results of the monitoring program are summarized in Table 4.

C. PSD Increment Analysis

The proposed FCS facility will be located in an area where the Class II PSD increments apply. However, the Chassahowitzka Class I area is within 20 kilometers of the proposed site; therefore, an analysis of Class I impacts was also performed.

There are several sources besides the proposed FCS facility which could affect increment consumption in the area of the proposed site. These are Adams Construction Company, Florida Mining and Materials, and Florida Power Corporation-Crystal River. Modeling results shown in Table 5 predict that the power plant/cement plant facility proposed by FCS, in combination with other increment-affecting sources in the area, will not cause a

TABLE 2

PROPOSED FLORIDA CRUSHED STONE CEMENT PLANT STACK PARAMETERS AND EMISSION RATES

Emissions Unit	Stack Height (m)	Stack Diameter (m)	Exit Velocity (m/s)	Exit Temperature (K)	Emission Rate g/s		
					PM	SO ₂	NO _x
Cement Kiln ¹	94.50	4.88	14.66	389.0	6.27	10.08	52.42
Raw Materials Bin	30.50	.61	12.90	314.0	.10	--	--
PreMix Bins	38.10	.61	9.70	314.0	.08	--	--
Fly Ash Bin	38.10	.61	9.70	314.0	.08	--	--
Raw Meal Transfer	21.30	.30	12.90	355.0	.04	--	--
Blending Silo	73.20	1.10	13.72	355.0	.42	--	--
Kiln Feed	15.20	.61	9.70	366.0	.10	--	--
Clinker Silo	41.20	.46	14.39	366.0	.08	--	--
Clinker Silo	61.00	.46	14.39	366.0	.08	--	--
Cooler Discharge	8.80	.61	9.70	366.0	.10	--	--
Silo Discharges	15.20	.76	14.48	314.0	.23	--	--
Finish Mill	21.30	1.50	12.93	372.0	.81	--	--
Cement Silo Discharge	15.20	.46	14.39	344.0	.08	--	--
Cement Silos	61.00	.46	14.39	355.0	.30	--	--

¹ Cement kiln and power plant share a common stack, total proposed emissions from which equal: PM, 21.8 g/s; SO₂, 157.5 g/s; NO_x, 161.2 g/s; and CO, 6.3 g/s.

*Y21 of P.
From E.P.*

TABLE 3

PROPOSED FCS POWER/CEMENT PLANT KILN AND FUGITIVE EMISSIONS SOURCE PARAMETERS AND EMISSION RATES

Emissions Unit	Stack Height (m)	Stack Diameter (m)	Exit Velocity (m/s)	Exit Temperature (K)	Emission Rate (g/s)			
					PM	SO ₂	NO _x	CO
Power Plant/ Cement Plant Kiln	94.50	4.88	14.66	389.00	21.8	157.5	161.2	6.3
	97.60		13.71	381.0	10.9	121.6		
Unloading Coal From Railroad Cars	15.00	1.00	1.00	314.00	2.0	---	---	---
Loadout From Storage Pile	15.00	1.00	1.00	314.00	.05	---	---	---
Transfer From Loadout To Coal Storage Bin	15.00	1.00	1.00	314.00	.15	---	---	---
<u>Area Source</u>	<u>Release Height (m)</u>	<u>Area Width (m)</u>			<u>PM Emission Rate (g/s/m²)</u>			
Loading/Pushing Coal From Rail Car Onto Coal Pile	10.0	80.0			0.000080			
Vehicular Traffic Around Coal Pile	10.0	80.0			0.000028			
Wind Erosion	10.0	80.0			0.000002			
Deep Bucket Conveyor	15.0	Force 45.0			0.000212			
Iron Ore Storage	15.0	95.0			0.000029			
Cement Distribution System	10.0	20.0			0.000125			

This is now in Table 12

TABLE 4

SUMMARY OF ONSITE AIR QUALITY DATA FOR FOUR MONTHS BEGINNING
MAY 25, 1982, AND ENDING SEPTEMBER 26, 1982

<u>Pollutant and Time Average</u>	<u>Highest Recorded Concentration</u>	<u>Second-Highest Concentration</u>
SO ₂ (ug/m ³)		
3-hour	16	15
24-hour	4	3
Annual	0	---
PM (ug/m ³)		
24-hour	140	139
Annual	34 ¹	---

¹Geometric mean value based on 37 observations

violation of any Class I or Class II PSD increment. Since separate modeling runs for the cement plant sources alone were not done, the table contains values based on all cement plant and power plant sources. For both SO₂ and PM, the highest, second-highest short-term predicted concentrations are given in the table since five years of meteorological data were used in the modeling.

As shown in the table, the predicted 24-hour SO₂ concentration in the Class I area consumes the highest percent of the PSD Class I increments. The modeling results show the highest, second-highest 24-hour SO₂ impact to be ~~4.0~~^{4.2} micrograms per cubic meter at a point ~~2.5~~^{2.1} kilometers ~~west~~ northwest of the proposed power plant/cement plant kiln stack location in the southeastern corner of Chassahowitzka Class I PSD area. This 24-hour impact consumes about ~~80%~~^{64%} of the available 24-hour Class I SO₂ increment. The predicted 24-hour PM concentration in the Class II area consumes the highest percent of the PSD Class II increments. The modeling results show the 24-hour PM impact to be ~~2.8~~^{2.9} micrograms per cubic meter at a point 1.1 kilometers east of the proposed project. This impact is mainly due to fugitive emissions from the power plant/cement plant. This 24-hour impact consumes about ~~76%~~^{49%} of the available 24-hour Class II PM increment.

D. AAQS Analysis

Given existing air quality in the area, the proposed FCS facility is not expected to cause or contribute to any violation of state or federal AAQS. The results of the AAQS analysis are contained in Table 6. The values contained in this table are based on emissions from all FCS cement and power plant sources.

For both SO₂ and PM, the highest, second-highest short-term predicted concentrations are given in the table since five years of meteorological data were used in the modeling. Based on the monitoring data, FCS has conservatively estimated the short-term PM background value as 112 micrograms per cubic meter and the long-term PM background value as 34 micrograms per cubic meter. ^{How ever, the Department has subsequently determined a Table background value of 95 ug/m³.} The monitoring data show that both the short-term and long-term background SO₂ values can be assumed to be zero because values of zero were measured 97 percent of the time by the SO₂ monitor. For this project, no NO₂ or CO monitoring was required by the Department; however, the Department has estimated a background NO₂ value of 20 ug/m³. This value is based upon data gathered elsewhere around the state.

^{Department's} The maximum predicted 24-hour PM impact which includes the background value, ^{of 115 ug/m³} the impact of all new and existing sources, and the impact of the proposed FCS sources is ~~148~~¹²⁹ micrograms per cubic meter. This impact is predicted to occur ~~1.2~~^{2.1} kilometers east-northeast of the proposed FCS site. ~~Fugitive emissions from the proposed FCS project are the major contributor to this impact~~

Table 2

TABLE 5

I-3

COMPARISON OF NEW SOURCE IMPACTS WITH PSD INCREMENTS

Pollutant and Time Average	PSD Class I Increment	Predicted Concentration	Percent Increment Consumed	PSD Class II Increment	Predicted Concentration	Percent Increment Consumed
SO ₂ (ug/m ³)						
3-hour	25.0	16.9 15.5	68-62	512	76-64	15 13
24-hour	5.0	4.0 3.2	80-64	91	21 13	23 14
Annual	2.0	0.6 0.1	30-5	20	6 4	30 20
PM (ug/m ³)						
24-hour	10.0	1.8	18-18	37	18 28±	26 49
Annual	5.0	0.4 0.3	8-6	19	2-3	12 16

~~1 - Includes maximum FCS fugitive emissions impact plus maximum impact of all non-fugitive new source emissions~~

~~requires particulate removal efficiency of greater than 99%~~

TABLE 6

COMPARISON OF PREDICTED IMPACTS WITH
AMBIENT AIR QUALITY STANDARDS

<u>Pollutant and Time Average</u>	<u>Existing Background¹</u>	<u>FCS Impact</u>	<u>All Sources²</u>	<u>Florida AAQS</u>
SO ₂ (ug/m ³)				
3-hour	0	76 64	413 266	1300
24-hour	0	15 13	88 65	260
Annual	0	1.5 1	22 20	60
PM (ug/m ³)				
24-hour	112	272 18	148 129	150
Annual	34	0 6	51 56	60
NO ₂ (ug/m ³)				
Annual	20	1	---3	100
CO (ug/m ³)				
8-hour	0	<1	---3	10,000
1-hour	0	<10	---3	40,000

- Existing background as defined by FCS ^{of 95 ug/m³ as determined by the Department} the Department.
- Includes existing background. ^{of 95 ug/m³ as determined by the Department} Maximum FCS impact does not necessarily occur at the same point and time as maximum ambient impact of all sources in the area.
- Because of insignificant FCS impact, the maximum ambient impact of all sources in the area was not evaluated.

(19 micrograms per cubic meter). The maximum predicted annual PM impact is ~~51~~⁵⁴ micrograms per cubic meter and is predicted to occur ~~2.0 kilometers north-northwest of the site.~~ ^{near the Florida Mining and Materials plant, nor north of the site.} The contribution by FCS sources to this impact is less than ~~1.0~~^{0.1} microgram per cubic meter. The maximum predicted SO₂ impacts are all much less than AAQS as is the maximum predicted annual NO₂ impact. The maximum predicted CO impact was inferred from the SO₂ modeling and is insignificant.

E. Analysis of Impacts on Soils, Vegetation, and Visibility, and Growth-Related Air Quality Impacts.

The maximum ground-level concentrations predicted to occur as a result of emissions from the proposed FCS facility will be below all applicable AAQS including the secondary standards designed to protect public welfare related values. No soils or species of vegetation highly sensitive to these emissions are known to occur onsite, in the site vicinity, or in the Chassahowitzka Class I area.

~~The Department has performed~~ a level-II visibility analysis for the power plant/cement plant facility which predicts no adverse impact on the visibility in the Class I area.

The proposed facility will employ persons who are already a part of the west-central Florida work force. This project is not expected stimulate additional growth or shift the nature of the projected growth. Therefore, no significant secondary residential commercial or industrial growth which will adversely affect air quality in the area is expected.

F. GEP Stack Height Evaluation

Regulations published by EPA in the Federal Register of February 8, 1982, define GEP stack height as the maximum nearby building height plus 1.5 times the building height or width, whichever is less. The stack height proposed for the power plant/cement kiln and used in the modeling is ~~310~~⁴²⁰ feet. This stack height is less than the GEP stack height of 375 feet calculated from the FCS plot layout and preliminary building dimensions for the cement plant silo and preheater.

VII. CONCLUSIONS

Based on the foregoing technical evaluation of the applications and additional information submitted by Florida Crushed Stone Company, the Department has made a preliminary determination that the construction can be approved and that compliance with all applicable state and federal air pollution regulations will be achieved provided certain conditions are met. The general and specific conditions are listed in the attached draft conditions of approval.

VIII. LIST OF ATTACHMENTS

1. Application to Construct Air Pollution Sources (DER Form 17-1.122(16)), for each of 17 sources received on September 30, 1982, revised January 13 and February 16, 1983.
2. Application for State and Federal PSD Approval, Volume I, received September 30, 1982.
3. DER's incompleteness letter to FCS, dated October 29, 1982.
4. FCS's additional information, received on November 3 and 8, 1982.
5. DER's request for additional information, dated Feb. 1, 1983.
6. DER's comments on revised applications to FCS, dated February 14, 1983.
7. FCS's responses to DER, received on February 16, 18, and 25, 1983.
8. DER's additional comments to FCS, dated March 10, 1983.
9. DER's additional comments to FCS, dated March 18, 1983.
10. FCS's response to DER, received on March 21, 1983.
11. FCS's response to DER, received on March 30, 1983.
12. DER's transmittal of U. S. Fish and Wildlife Service comments to FCS, dated March 30, 1983.
13. FCS's additional information, received on April 1 and 15, 1983.
14. DER's BACT determination for cement plant sources.
15. FCS's proposal to reduce SO₂ emissions by the use of limestone injection, received on July 18, 1983.
16. FCS's additional information received on August 1, 1983.
17. FCS's additional information received on September 23, 1983.
18. FCS's additional information received on October 3, 1983.
19. EPA's comments on the preliminary determination received on Oct 4, 1983.
20. FCS's additional information, received on October 28, 1983.
21. DER's response to EPA's comments on the preliminary determination, dated November 22, 1983.

GENERAL CONDITIONS

1. The permittee shall notify the permitting authority in writing of the beginning of construction of the permitted source within 30 days of such action and the estimated date of start-up of operation.
2. The permittee shall notify the permitting authority in writing of the actual start-up of the permitted source within 30 days of such action and the estimated date of demonstration of compliance as required in the specific conditions.
3. Each emission point for which an emission test method is established in this permit shall be tested in order to determine compliance with the emission limitations contained herein within sixty (60) days of achieving the maximum production rate, but in no event later than 180 days after initial start-up of the permitted source. The permittee shall notify the permitting authority of the scheduled date of compliance testing at least thirty (30) days in advance of such test. Compliance test results shall be submitted to the permitting authority within forty-five (45) days after the complete testing. The permittee shall provide (1) sampling ports adequate for test methods applicable to such facility, (2) safe sampling platforms, (3) safe access to sampling platforms, and (4) utilities for sampling and testing equipment.
4. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of two (2) years from the date of recording.
5. If, for any reason, the permittee does not comply with or will not be able to comply with the emission limitations specified in this permit, the permittee shall immediately notify the State District Manager by telephone and provide the District Office and the permitting authority with the following information in writing within four (4) days of such conditions:
 - (a) description for noncomplying emission(s),
 - (b) cause of noncompliance,
 - (c) anticipated time the noncompliance is expected to continue or, if corrected, the duration of the period of noncompliance,

(d) steps taken by the permittee to reduce and eliminate the noncomplying emission,

and

(e) steps taken by the permittee to prevent recurrence of the noncomplying emission.

Failure to provide the above information when appropriate shall constitute a violation of the terms and conditions of this permit. Submittal of this report does not constitute a waiver of the emission limitations contained within this permit.

6. Any change in the information submitted in the application regarding facility emissions or changes in the quantity or quality of materials processed that will result in new or increased emissions must be reported to the permitting authority. If appropriate, modifications to the permit may then be made by the permitting authority to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause violation of the emission limitations specified herein.
7. In the event of any change in control or ownership of the source described in the permit, the permittee shall notify the succeeding owner of the existence of this permit by letter and forward a copy of such letter to the permitting authority.
8. The permittee shall allow representatives of the State environmental control agency or representatives of the Environmental Protection Agency, upon the presentation of credentials:
 - (a) to enter upon the permittee's premises, or other premises under the control of the permittee, where an air pollutant source is located or in which any records are required to be kept under the terms and conditions of the permit;
 - (b) to have access to any copy at reasonable times any records required to be kept under the terms and conditions of this permit, or the Act;
 - (c) to inspect at reasonable times any monitoring equipment or monitoring method required in this permit;

(d) to sample at reasonable times any emission of pollutants;

and

(e) to perform at reasonable times an operation and maintenance inspection of the permitted source.

9. All correspondence required to be submitted to this permit to the permitting agency shall be mailed to:

Mr. James T. Wilburn
Chief, Air Management Branch
Air & Waste Management Division
U.S. EPA, Region IV
345 Courtland Street, NE
Atlanta, GA 30365

10. The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

The emission of any pollutant more frequently or at a level in excess of that authorized by this permit shall constitute a violation of the terms and conditions of this permit.

Conditions of Approval

PSD-FL-090

The construction and operation of the Florida Crushed Stone Company (FCS) steam electric power plant shall be in accordance with the attached general conditions and all applicable provisions of 40 CFR 52.21. In addition to the foregoing, the permittee shall comply with the following specific conditions of approval:

A. Emission Limitations

1. Stack emissions from the power plant boiler only shall not exceed the following site specific limitations when burning coal:

- a. SO₂ - ~~1.2~~ lb. per million Btu heat input, maximum ~~daily~~ ^{two-hour} average, and ~~1-200~~ ⁹¹⁵ lb. per hour, 0.9 ^{lb. per million BTU heat input} maximum three-hour average.
- b. NO_x - 0.7 lb. per million Btu heat input, averaging time per 40 CFR 60.46.
- c. Particulates - ~~0.7~~ ^{0.03} lb. per million Btu heat input, averaging time per 40 CFR 60.46.
- d. Visible emissions - 20% opacity, 6-minute average, except for one 6-minute period per hour of not more than 27% opacity.

2. Stack emissions from the combined cement plant and power plant boiler shall not exceed the following site specific limits:

- a. SO₂ - 1.2 lb. per million Btu heat input, maximum ~~daily~~ ^{two-hour} average, and ~~1-250~~ ⁹⁶⁵ lb. per hour, 0.74 ^{lb./10⁶ Btu heat input} maximum three-hour average.
- b. NO_x - 0.7 lb. per million Btu heat input plus 2.9 lb. per ton of kiln feed (dry basis), averaging time per 40 CFR 60.46.

- c. Particulates - ^{0.03} ~~0.1~~ lb. per million Btu heat input plus 0.3 lb. ^{from the cement kiln and 0.1 lb from the clinker cool} per ton of kiln feed (dry basis), averaging time per 40 CFR 60.46.
- d. Visible emissions - 10 percent opacity, 6-minute average, except for one 6-minute period per hour of not more than 27% opacity.

3. When the power plant boiler is operating alone and the cement plant is not in operation, the maximum heat input rate of the boiler shall not exceed the site specific limit of 1,000 million Btu per hour, maximum three-hour average.

4. Particulate ^{and SO₂} emissions from the ^{boiler} coal, and fly ash handling facilities.

- a. All conveyors and conveyor transfer points will be enclosed to preclude particulate emissions (except those directly associated with the coal stacker/reclaimer or emergency stockout stacker/reclaimer or emergency stockout).
- b. Inactive coal storage piles will be shaped, compacted and oriented to minimize wind erosion.
- c. Water sprays or chemical wetting agents and stabilizers will be applied to storage piles, handling equipment, etc. during dry periods and as necessary to all facilities to maintain an opacity of less than or equal to 5 percent, except when adding, moving or removing coal from the coal pile, during which the opacity shall be no more than 20%.
- d. The fly ash handling system (including transfer and silo storage) will be totally enclosed and vented (including pneumatic system exhaust) through fabric filters; and
- e. The permittee must submit to the Florida Department of Environmental Regulation within thirty (30) days after it becomes available a copy of the technical data pertaining to the selected particulate ^{and SO₂} emissions control for the

boiler, coal, and fly ash handling facilities. These data should include, but not be limited to, *projected or* guaranteed efficiency and emission rates, and major design parameters such as *injection rates, injection points,* air/cloth ratio and flow rate. The Department may, upon review of these data, disapprove the use of any such device if it determines the selected control device to be inadequate to meet the emission limits specified in Condition A. ~~B. below~~. Such disapproval shall be issued within 30 days of receipt of the technical data.

5. Particulate emissions from bag filter exhausts from the coal and fly ash handling systems (excluding those facilities covered by Condition A.4.c. above) shall be limited to 0.02 gr/acf. A visible emission reading of 5% opacity or less may be used to establish compliance with this emission limit. A visible emission reading greater than 5% opacity will not create a presumption that the 0.02 gr/acf emission limit is being violated. However, a visible emission reading greater than 5% opacity will require the permittee to perform a stack test, as set forth in Condition C.

6. Compliance with opacity limits of the facilities listed in Condition A.5. will be determined by EPA reference method 9 (Appendix A, 40 CFR 60).

7. Construction shall reasonably conform to the plans and schedule given in the application.

8. The permittee shall report any delays in construction and completion of the project which would delay commercial operation by more than 90 days to the Department's Southwest District Office in Tampa.

9. Reasonable precautions to prevent fugitive particulate emissions during construction, ^{and operation} such as coating ^{or paving of} roads and construction sites, ^{wetting roads} used by ~~contractors~~, and regrassing or watering areas of disturbed soils, ^{and storage areas} will be taken by the permittee. *In addition the access road*

10. Any fuel oil to be fired in the unit shall be "new oil", which means an oil which has been refined from crude oil

13. Particulate emissions from the following sources of Chemical Line Company shall not exceed the following limits:

<u>SOURCE</u>	<u>Permit No.</u>	<u>Emissions (lb/hr)</u>
Kiln	A0 27-55581	16.0
Hydrator	A0 27-25269	12.5
Dryer	A0 27-50400	14.5
Bagging	A0 27-17352	5.0

and has not been used. The quality of the fuel oil used by the boiler shall not cause the allowable emission limits listed in the table below to be exceeded. Such emissions may be calculated in accordance with AP-42, third edition.

Allowable Emission Limits

<u>Pollutant</u>	<u>lb/MMBtu</u>
PM	0.015
SO ₂	0.31
NO _x	0.16
Visible emissions	Maximum 20% Opacity

11. Samples of all fuel oil and coal fired in the boilers shall be taken and an ultimate analysis obtained including the heating value on a moisture free basis. Accordingly, samples shall be taken of each fuel shipment received. Coal sulfur content shall be determined and recorded on a daily basis to demonstrate compliance with the ~~1.2 lb per million~~ Btu SO₂ emission limits in Conditions A.1.a. and A.2.a. Records of all the analyses shall be kept for public inspection for a minimum of two years after the data are recorded.

12. The height of the boiler exhaust stack for the plant shall not be less than ³²⁰~~310~~ ft. above grade.

← 13,

B. Air Monitoring Program

1. A flue gas oxygen meter shall be installed for the unit to continuously monitor a representative sample of the flue gas. The oxygen monitor shall be used with automatic feedback or manual controls to continuously maintain air/fuel ratio parameters at an optimum. Performance tests shall be conducted and operating procedures established. The document "Use of Flue Gas Oxygen Meter as BACT for Combustion Controls" may be used as a guide. The permittee shall install and operate continuous monitoring devices for the boiler/^{exhaust plant} for sulfur dioxide and opacity to demonstrate compliance with the pound-per-hour SO₂ emission limits and visible emission limits, respectively, in Conditions A.1.a. and A.2.a. The monitoring devices shall meet the applicable requirements of 40 CFR 60.45 and 40 CFR 60.13 including certification of each device. The Department shall be provided 30 days notice on each certification.

2. The permittee shall operate two ambient monitoring devices for suspended particulates in accordance with EPA quality assurance procedures and reference methods in 40 CFR 53. The monitoring devices shall be operated at a location approved by the Department. The frequency of operation of the particulate monitors shall be every six days commencing as specified by the Department. In addition, the permittee shall operate a meteorological station, which includes wind measuring equipment, at a location approved by the Department. These data will be reported with the ambient data.

3. The permittee shall maintain a daily log of the amounts and types of fuel used and copies of the ultimate fuel analyses containing the heating value on a moisture free basis. These logs shall be kept for at least two years.

4. The ambient monitoring program shall begin at least one year prior to initial start up of the boiler and shall continue for at least one year of commercial operation. The Department and the permittee shall review the results of the monitoring program annually and determine the necessity for the continuation of or modifications to the monitoring program.

5. Prior to operation of the source, the permittee shall submit to the Department a plan or procedure that will allow the permittee to monitor emission control equipment efficiency and enable the permittee to return malfunctioning equipment to proper operation as expeditiously as possible.

C. Stack Testing

1. Within 60 calendar days after achieving the maximum capacity at which each unit will be operated (but no later than 180 operating days after initial startup) and annually thereafter, the permittee shall conduct (1) performance tests on the main stack for particulates, SO₂, NO_x, and visible emissions during normal operations near (+3%) 1,234 million Btu per hour heat input when the power plant and cement plant are operating in combination, and 1,000 million Btu per hour when the power plant is operating alone and (2) visible emissions tests on all coal and fly ash handling baghouses. The Department shall be furnished a written report of the results of such performance tests within 45 days of completion of the test. The performance

tests will be conducted in accordance with the provisions of 40 CFR 60.46.

2. Performance tests shall be conducted under such conditions as the Department shall specify based on representative performance of the facility. The permittee shall make available to the Department such records as may be necessary to determine the conditions of the performance tests.

3. The permittee shall provide 30 days notice of the performance tests or 10 working days for stack tests in order to afford the Department the opportunity to have an observer present.

4. Stack tests for particulates, NO_x, and SO₂ and visible emissions tests shall be performed annually from the date of the first performance test(s) in accordance with Conditions C.2., 3.^{and} ~~3. and 4.~~ above.

D. Reporting

1. Stack monitoring, fuel usage and fuel analysis data shall be reported to the Department's Southwest District Office and to the Hernando County Health Department on a quarterly basis commencing with the start of commercial operation in accordance with 40 CFR 60.7.

2. Utilizing the SAROAD or other format approved in writing by the Department, ambient air monitoring data shall be reported to the Bureau of Air Quality Management of the Department quarterly. Commencing on the date of certification, such reports shall be due within 45 days following the quarterly reporting period. Reporting and monitoring shall be in conformance with 40 CFR, Parts 53 and 58.

3. Beginning one month after approval, the permittee shall submit to the Department a monthly status report briefly outlining progress made on engineering design and purchase of major pieces of air pollution control equipment. All reports and information required to be submitted under this condition shall be submitted to the Administrator of Power Plant Siting, Department of Environmental Regulation, 2600 Blair Stone Road, Tallahassee, Florida, 32301.

E. Coal Characteristics and Contracts

Before approval can be granted by the Department for use of control devices, characteristics of the coal to be fired must be known. Therefore, before these approvals are granted, the permittee must submit to the Department copies of coal contracts which should include the expected sulfur content, ash content, and heat content of the coal to be fired. These data will be used by the Department in its evaluation of the adequacy of the control devices. Also, the applicant must demonstrate the ability to acquire a low sulfur coal supply of sufficient length to enable the installation of sulfur removal equipment if the supplies of low sulfur coal should not become available or be discontinued. Therefore, the coal contracts must be for a period of at least five (5) years from the date of start-up of the boiler.

F. Coal Information

As an alternative to the submittal of contracts for purchase of coal under Condition E above, the permittee may submit the following information:

1. The name of the coal supplier;
2. The sulfur content, ash content, and heat content of the coal as specified in the purchase contracts;
3. The location of the coal deposits covered by the contract (including mine name and seam);
4. The date by which the first delivery of coal will be made;
5. The duration of the contract; and
6. An opinion of counsel for the permittee that the contracts are legally binding.

Conditions of Approval
PSD-FL-091

The construction and operation of the Florida Crushed Stone Company (FCS) cement plant shall be in accordance with the attached general conditions and all applicable provisions of 40 CFR 52.21. In addition to the foregoing, the permitting shall comply with the following specific conditions of approval:

1. The emission rates from the kiln and cooler shall not exceed the emission limits and maximum allowable emissions listed below:

<u>Pollutant</u>	<u>Emission Limits</u> lb/ton of kiln feed	<u>Maximum Allowable Emissions</u>	
		<u>lb/hr</u>	<u>tons/yr</u>
PM (cooler)	0.1	12.4	54
PM (kiln)	0.3	37.1	162
SO ₂	0.6	74.3	325
NO _x	2.9	359.0	1572

2. Visible emissions from the kiln, cooler, dryer and raw mill shall not be greater than 10 percent opacity demonstrated in accordance with EPA Method 9.

3. Compliance with the particulate emission limits in specific condition No. 1 shall be demonstrated in accordance with the EPA Reference Method 5 in Appendix A, 40 CFR 60, as set forth in subsection 60.64 of the NSPS for Portland Cement Plants, 40 CFR 60.60.

4. Compliance with the SO₂ and NO_x emission limits in specific condition No. 1 shall be demonstrated in accordance with EPA Methods 6 and 7, respectively, in 40 CFR 60, Appendix A.

5. The maximum coal consumption in the kiln shall not exceed 10.3 tons per hour.

6. Instruments shall be installed, calibrated, and maintained to continuously measure the amounts of coal used in the kiln, material fed to the kiln, and clinker produced. The records of fuel usage with the fuel analysis, daily kiln feed and clinker produced shall be reported quarterly to the Florida Department of Environmental Regulation Southwest District office.

7. Emissions of particulate matter from all other baghouse-equipped sources associated with the cement plant shall not exceed the maximum allowable emission limits listed below:

BAGHOUSE INVENTORY

Florida Permit No. (AC 27-)	Source Name	Allowable PM Emissions	
		lb/hr	TPY
61019	Raw Materials Bin	0.8	3.5
61012	Pre Mix Bin	0.6	2.6
61013	Fly Ash Bin	0.6	2.6
61017	Raw Meal Transfer	0.3	1.3
61020	Blending Silo	3.3	14.5
61021	Kiln Feed	0.8	3.5
61030	Clinker Silo	0.6	2.6
61032	Clinker Silo	0.6	2.6
61027	Cooler Discharge	0.8	3.5
61033	Silo Discharges	1.8	7.9
61037	Finish Mill	6.4	28.0
61038	Cement Silo Discharge	0.6	2.6
61040	Cement Silo	0.6	2.6
61041	Cement Silo	0.6	2.6
61042	Cement Silo	0.6	2.6
61026	Coal Handling	0.8	3.5

8. Visible emissions from all sources listed in specific condition 7 shall not be greater than 5 percent opacity demonstrated in accordance with EPA Method 9.

9. Compliance with the particulate emission limits for all sources listed in specific condition No. 7 shall be demonstrated by EPA Method 5 or 17 (Appendix A, 40 CFR 60).

10. Reasonable precautions to prevent fugitive particulate emissions at the site, such as the application of dust suppressants on roads and the construction site, landscaping and planting of vegetation, shall be taken by the permittee.