



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

AIRS NO 0530010
PERMIT/CERTIFICATION:
Permit No: AC27-258570
County: Hernando
Expiration Date: 03/31/96
Project: No. 2 Clinker Cooler

PERMITTEE:
FM&M/Southdown, Inc.
P.O. Box 6
Brooksville, Florida 34605-0006

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 62-200 through 62-297, and 62-4. 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 operation of the No. 2 Clinker Cooler used to cool cement clinker from the No. 2 Kiln. Clinker is handled at a throughput rate of 84 tons/hour, based upon a 30 production-day rolling average. The No. 2 Kiln and No. 2 Clinker Cooler are operated in series, with the corresponding kiln output of 84 tons/hour also based upon a 30 production-day rolling average. Particulate emissions are controlled by the following baghouse:

<u>Baghouse Description</u>	<u>Baghouse ID</u>
Fuller Plenum Pulse No. 128 Type 20-Zone (Rated at 190,000 ACFM)	K-09

The maximum hourly input of clinker is limited to 90 tons/hour.

Location: U.S. Highway 98 North, NW of Brooksville

UTM: 17-356.9 E 3169.0 N NEDS No: 0010 Point ID No: 04-
No. 2 Clinker Cooler

Replaces Permit No.: A027-194670

1990
o August 27, 1990

Request to amend Keln No 2 Auxiliary
Source Air Permits. The permit
modification involved adjustment to current
limits for production rate, operating hours and
emissions, in order to make them consistent with
recent permit changes for Keln No 2 (Permit
AC 27-173474)

o Sept 5, 1989 AC 27-186923

Application for Permit Renewal

Request to burn Halite in Keln No 1

See Technical E for
AC 27-2255 issued in 1973

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Specific Conditions:

1. A part of this permit is the attached 15 General Conditions.
[Rule 62-4.160, F.A.C.]
2. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapter 62-200 through 62-297, 62-4, 40 CFR 60 Subpart F (Standards of Performance for Portland Cement Plants), or any other requirements under federal, state or local law.
[Rule 62-210.300, F.A.C.]
3. The No. 2 Clinker Cooler throughput rate shall not exceed 84 tons per hour, based upon a rolling 30 production-day average. The maximum hourly material input rate allowed is 90 tons/hour.
[Amendment request of September 26, 1994 and Dr. John Koogler's letter of November 22, 1994].
4. The operation of the No. 2 Clinker Cooler shall not exceed 8,200 hours per year.
[Permit No. AO27-194670].
5. Particulate matter emissions shall not exceed the following levels:

Source	Baghouse ID	pounds/hour	tons/year
No. 2 Clinker Cooler	K-09	5.00	20.5

[Permit No. AO27-194670].

6. Visible emissions shall not exceed 10% opacity. CEM
[Rule 62-296.800, F.A.C., and 40 CFR 60.62(c)].
7. Test the emissions from the No. 2 Clinker Cooler baghouse exhaust for the following pollutants on or before 180 days prior to the date this permit expires (see Specific Condition No. 15). Submit a copy of the test data to the Air Section of the Southwest District Office within 45 days of such testing:
[Rules 62-297.340 and 62-297.570(2), F.A.C.]

(X) Opacity (Visible Emissions)
(X) Particulates
8. Compliance with the emission limitations of Specific Condition Nos. 5 and 6 shall be determined using EPA Methods 1, 2, 4, 5 and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C. The minimum requirements for stationary point source

1991
o Fla Mining & Materials

PSD-F1-188 and AC 27-21252

Issue: To discuss the operating hours and process feed rates for Kiln #1, and the NO_x limits for Kiln No 2

modification of the nitrogen oxides limit of the No 2 Cement Kiln from 162.3 lbs/hr to 250.0 lbs/hr

665.4 } tons per year
1025.0 }

1987-1988 PSD-F1-124 - AC27-138850

Kiln No 2 in operation since August 15, 1983
permit AO 27-65207

Request increase from

1) NO_x 195.3 $\frac{\text{lb}}{\text{hr}}$ to 330 $\frac{\text{lb}}{\text{hr}}$

2) SO₂ increase from 3 $\frac{\text{lb}}{\text{hr}}$ to 20 $\frac{\text{lb}}{\text{hr}}$

they got 250 lb/hr

o 1989

AC 27-13885

Increase for CO and HC
Kiln No 2

X
EX

- Request:
- 1) Increase in the permitted elements production rate
 - 2) Increase in permitted maximum annual operation
 - 3) Increase in the " cold" conversion rate
 - 4) Operate kiln without rose mill.
 - 5) Use F101 re-referenced per first order
- NO * NO_x
XO NO₂
O₂ NO_x

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point source emissions test procedures, notification, and reporting shall be in accordance with Rule 62-297, F.A.C., 40 CFR 60.7, and 40 CFR 60, Appendix A and F.

9. The visible emissions test shall be conducted by a certified observer and be a minimum of 180 minutes in duration. The test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. [Rule 62-297.330(1)(b), F.A.C.]

10. Testing of emissions must be conducted within 90-100% of the maximum hourly material input attained within the period 30 production-days prior to the test date, or 84 tons/hour, whichever is greater. A compliance test submitted at a rate less than 90% of the above determined rate will automatically constitute an amended permit rate at that lesser rate plus 10%. Within 30 days of that lower amended permitted rate being exceeded by more than 10%, a new compliance test shall be conducted at the higher rate. The test results shall be submitted to the Southwest District Office of the Department within 45 days of testing. Acceptance of the test by the Department will automatically constitute an amended permit at the higher tested rate plus 10%, but in no case shall the maximum permitted hourly rate of 90 tons/hour be exceeded. Failure to submit records of the material input rate during the test period, and for the 30 production-days prior to the test period, along with the test report may invalidate the test and fail to provide reasonable assurance of compliance. [Rule 62-4.070(3), F.A.C.]

11. The permittee shall notify the Southwest District Office of the Department at least 30 days prior to the date on which each formal compliance test is to begin of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted. [Rule 62-297.340(1)(i), F.A.C.]

12. The No. 2 Kiln feed rates shall be monitored and recorded daily in accordance with 40 CFR 60.33.

13. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provisions in Rule 62-296.310(3), F.A.C. These provisions are applicable to any source, including but not

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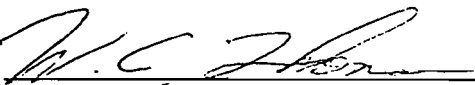
Specific Conditions:

limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling.

14. Submit to this office for this source, each calendar year and on or before March 1, an emission report [DEP Form 62-210.900(4)] for the preceding calendar year pursuant to Rule 62-210.370(2), F.A.C.

15. Four applications for a Title V operating permit shall be submitted to the Tallahassee Office of the Department as specified in Rule 62-213.420, F.A.C., at least 180 days prior to the expiration date of this permit. To properly apply for an operation permit, the applicant shall submit the appropriate application form, certification that construction was completed (noting any deviations from the construction permit application), records and compliance test reports as required by this permit. [Rules 62-4.220 and 62-297.340(1)(a), F.A.C.]

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


For Richard D. Garrity, Ph.D.
Director of District Management
Southwest District