

Check Sheet

Company Name: Sikes Corporation  
Permit Number: AC 93-55781, -55782, -55784  
PSD Number: \_\_\_\_\_  
Permit Engineer: \_\_\_\_\_

**Application:**

- Initial Application
- Incompleteness Letters
- Responses
- Waiver of Department Action
- Department Response
- Other

**Cross References:**

- AO 93-10302
- AC 93-44873
- AC 93-44149
- AO 93-44148

**Intent:**

- Intent to Issue
- Notice of Intent to Issue
- Technical Evaluation
- BACT or LAER Determination
- 3  Unsigned Permit
  - Correspondence with:
    - EPA
    - Park Services
    - Other
- Proof of Publication
  - Petitions - (Related to extensions, hearings, etc.)
  - Waiver of Department Action
  - Other

**Final**

**Determination:**

- 3  Final Determination
- Signed Permit
- BACT or LAER Determination
- Other

**Post Permit Correspondence:**

- ~~Extensions/Amendments/Modifications~~
- Other

In the folder labeled as follows there are documents, listed below, which were not reproduced in this electronic file. That folder can be found in one of the file drawers labeled Supplementary Documents Drawer. Folders in that drawer are arranged alphabetically, then by permit number.

**Folder Name:** Sikes Corporation

**Permit(s) Numbered:**

AC	53	-	055781
AC	53	-	055782
AC	53	-	055784

Period during  
which document  
was received:

Detailed Description

APPLICATION 5 MAY 1982	1.	24"×36" BLUEPRINT: R&D LABORATORY EXPANSION WAREHOUSE REVAMP PILOT PLANT INDUSTRIAL WATER, AIR, & GAS POINTS (DRAWING NUMBER: P-501)
	2.	24"×36" BLUEPRINT: R&D LABORATORY EXPANSION WAREHOUSE REVAMP PILOT PLANT DUST COLLECTION SYSTEM - PLAN & SECT'S (DRAWING NUMBER: 810412-M-601)

Steve Smallwood

September 21, 1982

Mr. William R. Boakes, Vice President  
Sikes Corporation  
Florida Tile Division  
Post Office Box 447  
Lakeland, Florida 33802

Dear Mr. Boakes:

The Department is in receipt of your request for a modification of your construction permit, No. AC 53-55781, issued August 17, 1982. The errors occurred while transcribing data to the documents to be submitted. This request is acceptable and the conditions are changed and added as follows:

Specific Conditions:

From: No. 2: Maximum heat input shall not exceed  $10 \times 10^6$   
Btu per hour (MMBtu/hr).

To: No. 2: Maximum heat input shall not exceed  $1.0 \times 10^6$   
Btu per hour (MMBtu/hr).

Attachment to be included is:

2. Jerry W. Hardin's letter dated September 13, 1982, requesting the modification to the construction permit.

This letter and attachment must be attached to your permit, AC 53-55781, and shall become a part of that permit.

Sincerely,

/s/Victoria J. Tschinkel

Victoria J. Tschinkel  
Secretary

VJT/bmm

cc: Jerry W. Hardin  
Dan Williams

Steve Smallwood

September 21, 1982

Mr. William R. Boakes, Vice President  
Sikes Corporation  
Florida Tile Division  
Post Office Box 447  
Lakeland, Florida 33802

Dear Mr. Boakes:

The Department is in receipt of your request for a modification of your construction permit, No. AC 53-55782, issued August 17, 1982. The errors occurred while transcribing data to the documents to be submitted. This request is acceptable and the conditions are changed and added as follows:

Specific Conditions:

From: No. 2: Maximum heat input shall not exceed  $30 \times 10^6$   
Btu per hour (MMBtu/hr).

To: No. 2: Maximum heat input shall not exceed  $3.0 \times 10^6$   
Btu per hour (MMBtu/hr).

Attachment to be included is:

2. Jerry W. Hardin's letter dated September 13, 1982, requesting the modification to the construction permit.

This letter and attachment must be attached to your permit, AC 53-55782, and shall become a part of that permit.

Sincerely,

/s/Victoria J. Tschinkel  
Victoria J. Tschinkel  
Secretary

VJT/bmm

cc: Jerry W. Hardin  
Dan Williams

State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For Routing To District Offices And/Or To Other Than The Addressee		
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
From: _____	Date: _____	
Reply Optional [ ]	Reply Required [ ]	Info. Only [ ]
Date Due: _____	Date Due: _____	

RECEIVED

SEP 27 1982

Office of the Secretary

TO: Victoria J. Tschinkel, Secretary

FROM: *Steve* Steve Smallwood, Bureau Chief, BAQM

DATE: September 21, 1982

SUBJ: Approval and signature of a modification to the construction permits, Nos. AC 53-55781 and -55782, for Sikes Corporation, issued August 17, 1982.

Enclosed is an amendment to the referenced construction permits that have been approved by the Bureau.

SS/bmm

Enclosure

**HARDIN  
ENGINEERING**



**Geo-Environmental  
Engineering Services**

Bill

September 13, 1982

C.H. Fancy, P.E.  
Deputy Chief, Bureau of Air  
Quality Management

Sikes  
RE: AC53-55781-4

Florida Dept. of Environmental Regulation  
Twin Towers 2600 Blair Stone Rd.  
Tallahassee, FL 32301

DER  
SEP 16 1982  
BAQM

Dear Mr. Fancy:

It has come to my attention that a decimal error has occurred, possibly transcriptually in the application permit packages corresponding to AC53-55781 and also in AC53-55782.

Please note:

- a) AC53-55781 page 3 of 4 specific condition 2  
..... shall not exceed 1.0 $\times 10^6$  BTU .....

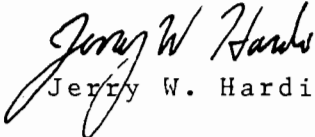
Also application page 4 of 10 top of page under  
maximum heat input ..... 1.0 BTU (MM BTU hr.)

- b) AC53-55782 page 3 of 4 specific condition 2  
..... shall not exceed 3.0 $\times 10^6$  BTU.....

Also application page 4 of 10 top of page under  
maximum heat input ..... 3.0 BTU (MM BTU hr.)

Thank you in advance for your attention to this matter.

Sincerely,

  
Jerry W. Hardin, P.E.

JWH:tcl

cc: Bill Gandy - Sikes

LISTED BELOW ARE THE VARIOUS MATERIALS USED IN COMPOUNDING GLAZES AND BODY:

1. GLAZE BASE MATERIALS

---

SILICA  
GROUND GLASS  
FELDSPAR  
ZINC OXIDE  
LEAD MONOSILICATE  
ZIRCONIUM SILICATE  
ALUMINA HYDRATE  
ALUMINA OXIDE  
CHINA CLAY  
BALL CLAY  
CALCIUM CARBONATE  
BARIUM CARBONATE  
TITANIUM DIOXIDE  
FLUORSPAR

2. COLORING MATERIALS

---

COBALT OXIDE  
IRON OXIDE  
COPPER OXIDE  
GLAZE STAINS

3. LIQUID CONDITIONING AGENTS

---

QUADROFOS - SODIUM TETRAPHOSPHATE  
PHOPLEX - ACRYLIC RESIN EMULSION  
CMC - SODIUM CARBOXYMETHYLCELLULOSE  
CALGON  
GUM ARABIC

4. BODY MATERIALS

---

TALC - MAGNESIUM SILICATE  
BALL CLAY - ALUMINUM SILICATE  
WOLLASTONITE - CALCIUM SILICATE  
WHITING - CALCIUM CARBONATE

*Do not throw away!*

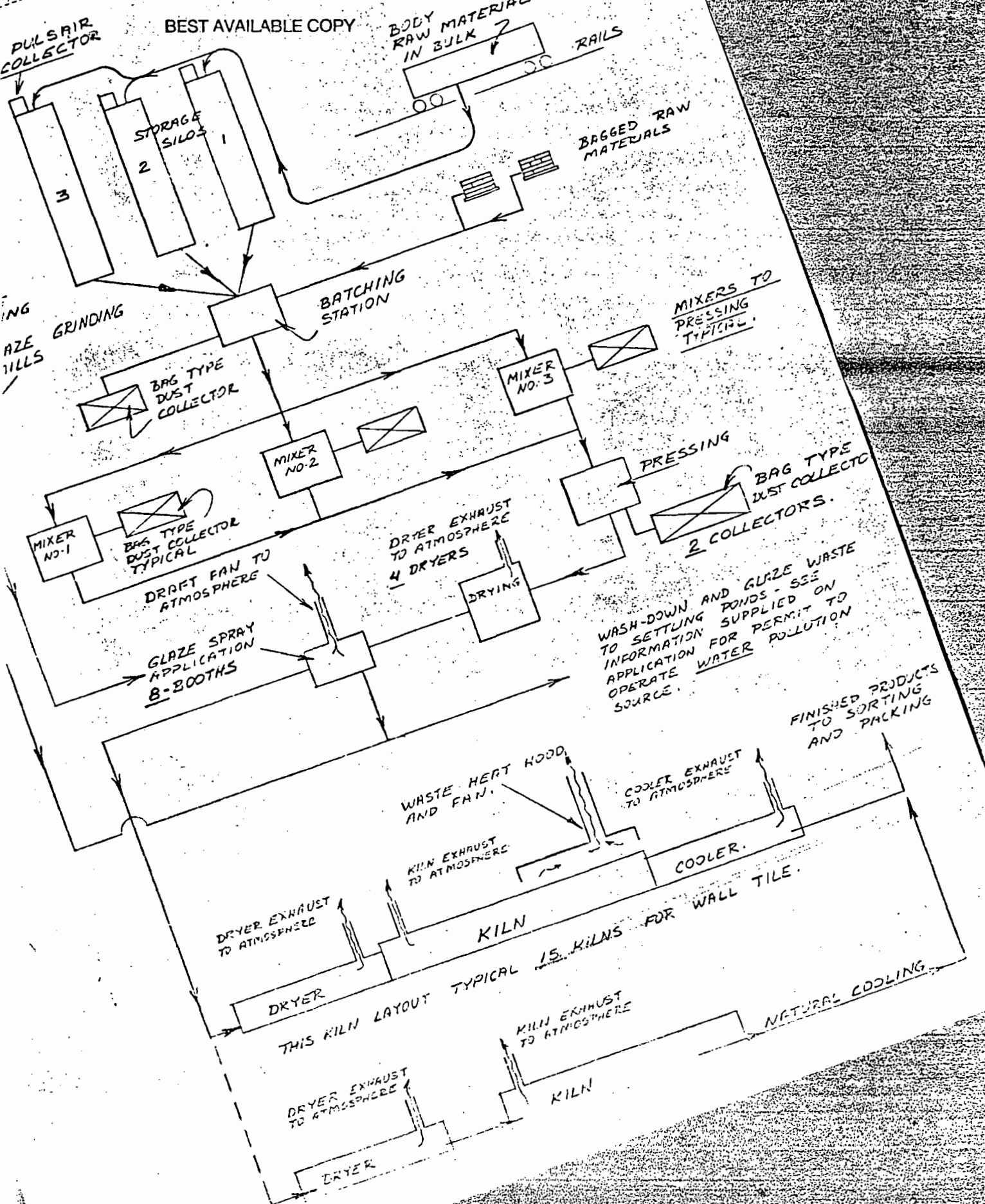
*Past Permits to*

*be used for*

*tracking.*

*8/20/82*

BEST AVAILABLE COPY



SIZE MILLS

GRINDING

STORAGE SILOS  
1  
2  
3

BODY RAW MATERIAL IN BULK

RAILS

BAGGED RAW MATERIALS

BATCHING STATION

MIXERS TO PRESSING TYPICAL

BAG TYPE DUST COLLECTOR

MIXER NO-2

MIXER NO-3

PRESSING

BAG TYPE DUST COLLECTOR 2 COLLECTORS

MIXER NO-1  
BAG TYPE DUST COLLECTOR TYPICAL  
DRAFT FAN TO ATMOSPHERE

DRYER EXHAUST TO ATMOSPHERE 4 DRYERS

DRYING

GLAZE SPRAY APPLICATION 8-BOOTHES

WASH-DOWN AND GLAZE WASTE TO SETTLING PONDS - SEE INFORMATION FOR PERMIT TO OPERATE WATER POLLUTION SOURCE

WASTE HEAT HOOD AND FAN

COOLER EXHAUST TO ATMOSPHERE

FINISHED PRODUCTS TO SORTING AND PACKING

DRYER EXHAUST TO ATMOSPHERE

KILN EXHAUST TO ATMOSPHERE

COOLER

DRYER

KILN

THIS KILN LAYOUT TYPICAL 15 KILNS FOR WALL TILE

DRYER EXHAUST TO ATMOSPHERE

KILN EXHAUST TO ATMOSPHERE

DRYER

KILN

NATURAL COOLING



Best Available Copy

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



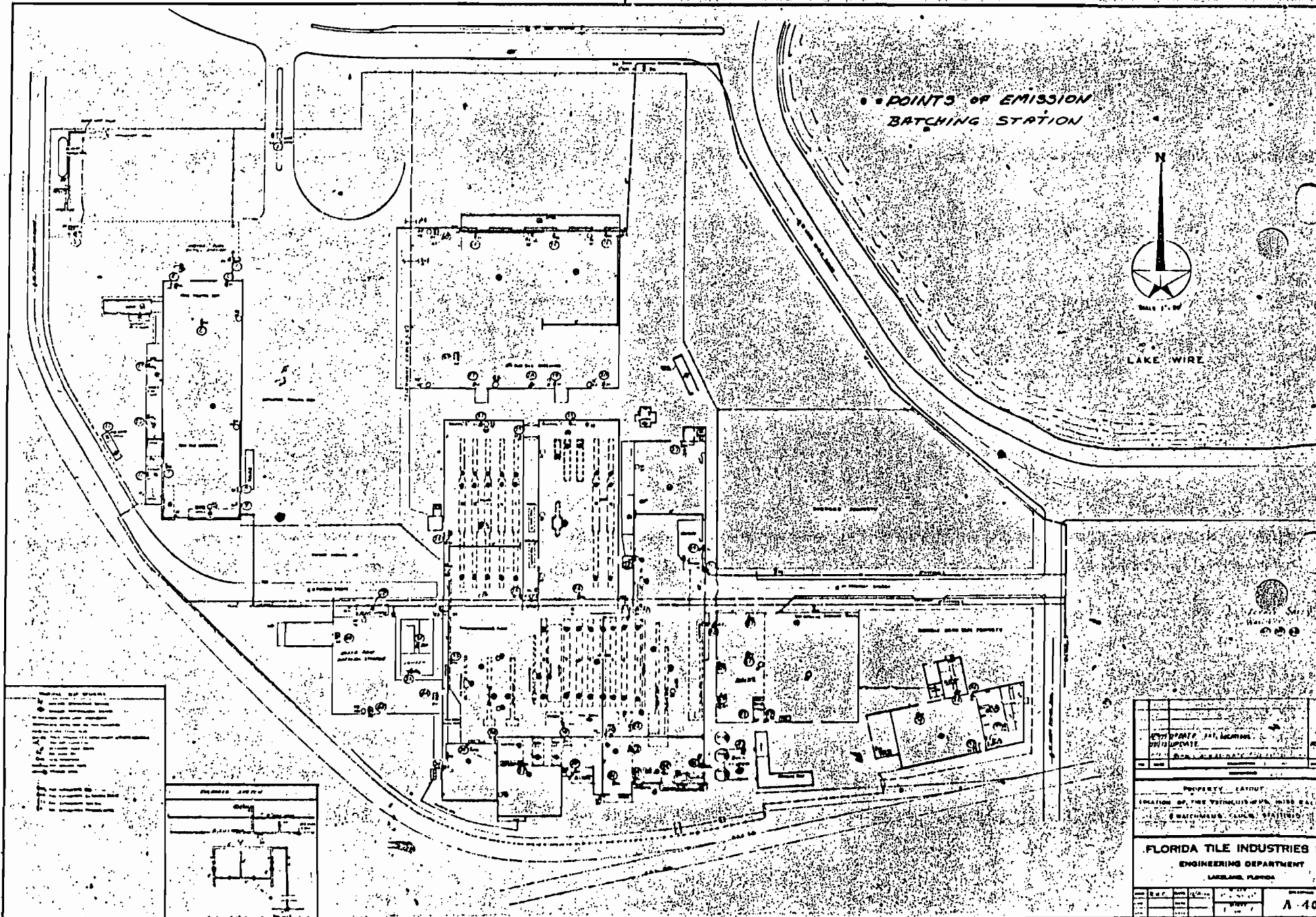
Mapped by the Army Map Service  
Published for civil use by the Geological Survey

Control by USC&GS and Florida Geodetic Survey

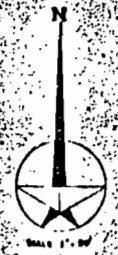
Topography by photogrammetric methods from aerial photographs  
taken 1942 and planetable surveys 1944

Polyconic projection. 1927 North American datum;  
10,000-foot grid based on Florida coordinate system,  
west zone

LAKELAND, FLA. 30

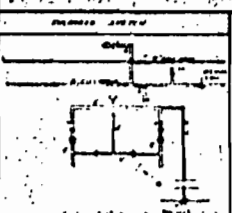


•• POINTS OF EMISSION  
BATCHING STATION



LAKE WIRE

Legend table with multiple rows of symbols and corresponding text labels.



PROPERTY LAYOUT  
LOCATION OF THE VENTILATION, WIND TUNNEL,  
BATCHING, LAUNCH, STATION

**FLORIDA TILE INDUSTRIES II**  
ENGINEERING DEPARTMENT  
LAKELAND, FLORIDA

DATE	BY	CHKD	APP'D	SCALE	SHEET NO.
					A-40

7501 HIGHWAY 301 NORTH  
TAMPA, FLORIDA 33610



BOB GRAHAM  
GOVERNOR

JACOB D. VAR  
SECRETARY

DAVID PUCHATY  
DISTRICT MANAGER

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

Polk County AP  
Sikes Corporation

Mr. Leon R. Sikes, Jr., Pres.  
Sikes Corporation  
608 Prospect St.  
P.O. Box 447  
Lakeland, Fla. 33802

Dear Mr. Sikes:

Enclosed is Permit Number A053-18302, dated May 30, 1979,  
to operate the subject pollution source, issued pursuant  
to Section 403, Florida Statutes.

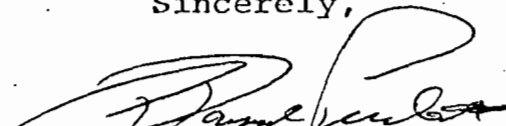
Should you object to this permit, including any and all of the conditions contained therein, you may file an appropriate petition for administrative hearing. This petition must be filed within fourteen (14) days of the receipt of this letter. Further, the petition must conform to the requirements of Section 28-5.15, Florida Administrative Code, (copy enclosed). The petition must be filed with the Office of General Counsel, Department of Environmental Regulation, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32301.

If no petition is filed within the prescribed time, you will be deemed to have accepted this permit and waived your right to request an administrative hearing on this matter.

Acceptance of the permit constitutes notice and agreement that the department will periodically review this permit for compliance, including site inspections where applicable, and may initiate enforcement action for violation of the conditions and requirements thereof.

cc: Record Center  
Jerry W. Hardin, P.E.

Sincerely,

  
P. David Puchaty  
District Manager

Enclosure

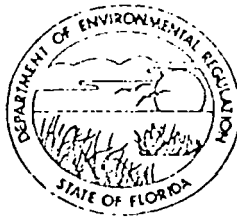
RULES OF THE ADMINISTRATION COMMISSION  
MODEL RULES OF PROCEDURE  
CHAPTER 28-5  
DECISIONS DETERMINING SUBSTANTIAL INTERESTS

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.

---

NOTE: At a formal hearing all parties shall have an opportunity to present evidence and argument on all issues involved, to conduct cross-examination and submit rebuttal evidence, to submit proposed findings of fact and orders, to file exceptions to any order or hearing officer's recommended order, and to be represented by counsel.



STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

APPLICANT:

SIKES CORPORATION  
608 Prospect Street  
P.O. Box 447  
Lakeland, Fla. 33802

PERMIT/CERTIFICATION  
NO. A053-18302

COUNTY: Polk

PROJECT: Curing Clay Tile

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and made a part hereof and specifically described as follows:

Fifteen curing kilns natural gas fired with no PCD.  
Kilns for curing wall tiles.

Located at 608 Prospect Street, Lakeland, Fla.

UTM: 17 East 405.2 North 3102.2

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 Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court 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 indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.

3. 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 non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. 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.
4. As provided in subsection 403.087(6), 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.
5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.
6. 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 Section 403.111, F.S.
7. In the case of an operation permit, 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.
8. 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, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.
9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.
10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.



11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.

12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation 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.

13. This permit also constitutes:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

SPECIFIC CONDITIONS:

1. Test for plume density (visible emissions) at intervals of 12 months from the date of 2/23/79 and submit a copy of the test to the District Engineer of this agency with fifteen days of such testing. (Chapter 17-2.07(1), Florida Administrative Code (F.A.C.)).
2. Testing of emissions must be accomplished at approximately the rates as stated in the application. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data (Chapter 403.161(1)(c), Florida Statutes).
3. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information as per Chapter 17-4.14, F.A.C.
  - (A) Annual amount of materials and/or fuels utilized.
  - (B) Annual emissions (note calculation basis).
  - (C) Any changes in the information contained in the permit application.

Appl. Name:       kes Corporation  
Project:       uring clay tile  
Page   4   of   4   of Permit No.:   A053-18302  

Expiration Date:  
May 10, 1984

Issued this   30   day of   May  ,  
19  79  .

STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL REGULATION

  
P. David Puchaty  
District Manager



KILNS (15 UNITS)

GAS FIRED

PAID  
3-16-79  
A053-18302



D.E.R.

MAR 16 1979

SOUTHWEST DISTRICT  
TAMPA

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

Source Type:  Air Pollution  Incinerator  
Application Type:  Construction  Operation  Modification  Renewal of DER Permit No. A053-2503  
Company Name: SIKES CORPORATION County: POLK

Identify the specific emission point source(s) addressed in this application (i.e.: Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired): NATURAL GAS FIRED KILNS (15 UNITS)

Source Location: Street: 608 PROSPECT STREET City: LAKELAND, FLORIDA 33802

UTM: East \_\_\_\_\_ North \_\_\_\_\_  
Latitude: 28° 02' 45" N. Longitude: 81° 57' 45" W.

Appl. Name and Title: FLORIDA TILE INDUSTRIES, INC., A DIVISION OF SIKES CORPORATION  
Appl. Address: 608 PROSPECT ST., P.O. Box 447, LAKELAND, FLORIDA 33802

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative of\* SIKES CORPORATION  
I certify that the statements made in this application for a AIR POLLUTION OPERATION permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department and revisions thereof. I also understand that a permit, if granted by the Department, will be nontransferable and I will promptly notify the Department upon sale or legal transfer of the permitted establishment.

LEON R. SIKES, JR., PRESIDENT  
Name of Person Signing (please Type or Print)

B. J. Standy, Eng. Manager  
Signature of the Owner or Authorized Representative and Title  
Date: March 9, 79 Telephone No.: (813)683-5431

\* Attach a letter of authorization.

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgement, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the Department. It is also agreed that the undersigned will furnish the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signature: Jerry W. Hardin  
Name: JERRY W. HARDIN, P.E.  
(Please Type)  
Company Name: HARDIN ENGINEERING  
Florida Registration Number: 20,331

Mailing Address: \_\_\_\_\_  
3237 CLEVELAND HGTS. BLVD.  
LAKELAND, FLORIDA 33803  
Telephone No.: (813) 646-0496  
Date: MARCH 5, 1979

(Affix Seal)

SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

ALL KILNS ARE EXISTING FACILITIES AND ARE IN COMPLIANCE.

PRESSED GREEN WARE IS FIRED IN KILNS UP TO 1950 TO 2000 ° F. TEMP.  
NATURAL GAS USED TO FIRE KILNS GENERATES EMISSIONS.

B. Schedule of Project Covered in this Application (Construction Permit Application Only).

Start of Construction: \_\_\_\_\_ Completion of Construction: \_\_\_\_\_

C. Costs of Construction. (Note: show breakdown of estimated costs only for individual components/units of the project serving pollution control purpose. Information on actual costs shall be furnished with the application for operation permit.)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

A053-2155 ISSUED (DATE UNKNOWN) EXPIRES JANUARY 1, 1974  
A053-2503 ISSUED FEBRUARY 15, 1974 EXPIRES FEBRUARY 15, 1979

E. Is the emission point considered to be a New\* or Existing\* source, as defined in Chapter 17-2.02(5) & (6), Florida Administrative Code?  
 New  Existing

F. Is this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 22F-2, Florida Administrative Code?  Yes  No

G. Normal Equipment Operating Time: hrs/day: 24 ; days/wk: 7 ; wks/yr: \_\_\_\_\_ ; if seasonal, describe: \_\_\_\_\_

DEPENDS UPON DEMAND

\*Note

New Source: any source which came into existence, began operation or construction, or received a permit for the latter on or after January 18, 1972.

Existing Source: any source in existence, operating or under construction (or with a permit to construct) prior to January 18, 1972.

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES

(other than incinerators)

A. Raw Materials and Chemicals Used in Your Process:

Description	Utilization Rate lbs./hr.	Relate to Flow Diagram
REFER TO ATTACHMENT	277,672#/DAY	KILNS
BODY MATERIALS AND GLAZE		
MATERIALS: EXACT BLENDS		
ARE A TRADE SECRET		

B. Process Rate:

1) Total Process Input Rate (lbs./hr.): 11,567  
 2) Product Weight (lbs/hr): 11,567

3,856.5 SQ.FT. @ 3#/SQ.FT. / 24HRS. / DAY / 7 DAYS / WEEK

C. Airborne Contaminants Discharged:

Name of Contaminant	Actual Discharge*		Allowed Discharge Rate Per Ch. 17-2, F.A.C.**	Allowable Discharge*** (lbs./hr.)	Relate to Flow Diagram
	lbs./hr.	T/yr.			
PRODUCTS OF COMBUSTION OF NATURAL GAS	NOT PERCEPTIBLE TO EYE		45,000,000 BTU INPUT/HR.	NOT DETERMINED	KILNS#1THRU#15

D. Control Devices:

Name and Type (Model and Serial No.)	Contaminant	Efficiency†	Range of Particles Size Collected (in microns)	Basis for Efficiency††
NONE REQUIRED			.0735 GRAINS/STD. CU.FT. KILN EXHAUST	KILNS

\* Estimate only if this is an application to construct.

\*\* Specify units in accordance with emission standards prescribed within Section 17-2.04, F.A.C. (e.g. Section 17-2.04(6)(a)1.a. specifies that new fossil fuel steam generators are allowed to emit particulate matter at a rate of 0.1 lbs. per million BTU heat input computed as a maximum 2-hour average.)

\*\*\* Using above example for a source with 260 million BTU per hour heat input:  $0.1 \text{ lbs.} \times \frac{260 \text{ MMBTU}}{\text{hr.}} = 26 \text{ lbs./hr.}$

† See Supplemental Requirements, page 5, number 2.

†† Indicate whether the efficiency value is based upon performance testing of the device or design data.

E. Fuels:

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg./hr.	Max./hr.	
NATURAL GAS	1,080,000 CU. FT.		45,000,000

\*Units: Natural Gas - MMCF/hr.; Fuel Oils, Coal - lbs./hr.

Fuel Analysis:

Percent Sulfur: \_\_\_\_\_ Percent Ash: \_\_\_\_\_

Density: \_\_\_\_\_ lb./gal.

Heat Capacity: \_\_\_\_\_ BTU/lb. \_\_\_\_\_ BTU/gal.

Other Fuel Contaminants: \_\_\_\_\_

F. If applicable, indicate the percent of fuel used for space heating: \_\_\_\_\_ Annual Average: \_\_\_\_\_ Maximum: \_\_\_\_\_

G. Indicate liquid or solid wastes generated and method of disposal:

NO WASTES GENERATED OTHER THAN EMISSIONS SHOWN ABOVE.

H. Emission Stack Geometry and Flow Characteristics (provide data for each stack):

Stack Height: 35' ft.

Stack Diameter: 18" DIA. @ 1.76 CU. FT. AREA

Gas Flow Rate: 3,250 CFM ACFM

Gas Exit Temperature: 425 °F

Water Vapor Content: 7.6% %

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type O (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Lbs./Hr. Incinerated							

Description of Waste: \_\_\_\_\_

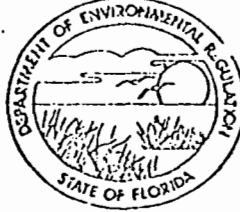
Total Weight Incinerated (lbs./hr.): \_\_\_\_\_ Design Capacity (lbs./hr.): \_\_\_\_\_

Approximate Number of Hours of Operation per Day: \_\_\_\_\_, days/week: \_\_\_\_\_

Manufacturer: \_\_\_\_\_

Date Constructed: \_\_\_\_\_ Model No.: \_\_\_\_\_

7601 HIGHWAY 301 NORTH  
TAMPA, FLORIDA 33610



BOB GRAHA  
GOVERNOR  
JACOB D. VAR  
SECRETARY  
DAVID PUCHATY  
DISTRICT MANAGER

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

Polk County AP  
Sikes Corporation

Mr. Leon R. Sikes, Jr., Pres.  
Sikes Corporation  
608 Prospect St.  
P.O. Box 447  
Lakeland, Fla. 33802

Dear Mr. Sikes:

Enclosed is Permit Number A053-18301, dated May 30, 1979,  
to operate the subject pollution source, issued pursuant  
to Section 403, Florida Statutes.

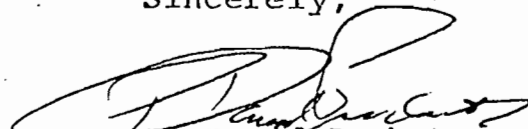
Should you object to this permit, including any and all of the conditions contained therein, you may file an appropriate petition for administrative hearing. This petition must be filed within fourteen (14) days of the receipt of this letter. Further, the petition must conform to the requirements of Section 28-5.15, Florida Administrative Code, (copy enclosed). The petition must be filed with the Office of General Counsel, Department of Environmental Regulation, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32301.

If no petition is filed within the prescribed time, you will be deemed to have accepted this permit and waived your right to request an administrative hearing on this matter.

Acceptance of the permit constitutes notice and agreement that the department will periodically review this permit for compliance, including site inspections where applicable, and may initiate enforcement action for violation of the conditions and requirements thereof.

cc: Record Center  
Jerry W. Hardin, P.E.

Sincerely,

  
P. David Puchaty  
District Manager

Enclosure

RULES OF THE ADMINISTRATION 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.

---

NOTE: At a formal hearing all parties shall have an opportunity to present evidence and argument on all issues involved, to conduct cross-examination and submit rebuttal evidence, to submit proposed findings of fact and orders, to file exceptions to any order or hearing officer's recommended order, and to be represented by counsel.



STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

APPLICANT:

Sikes Corporation  
608 Prospect Street  
P.O. Box 447  
Lakeland, Fla. 33802

PERMIT/CERTIFICATION  
NO. AO53-18301

COUNTY: Polk

PROJECT: Tile drying

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and made a part hereof and specifically described as follows:

Tile drying operation, natural gas fired heat exchanger located at 608 Prospect Street, Lakeland, Fla.

UTM: 17 East 405.2 North 3102.2

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 Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court 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 indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.

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

4. As provided in subsection 403.087(6), 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.

5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.

6. 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 Section 403.111, F.S.

7. In the case of an operation permit, 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.

8. 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, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.

9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.

10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.



11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.

12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation 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.

13. This permit also constitutes:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

**SPECIFIC CONDITIONS:**

1. Test for plume density (visible emissions) at intervals of 12 months from the date of 2/23/79 and submit a copy of the test to the District Engineer of this agency with fifteen days of such testing. (Chapter 17-2.07(1), Florida Administrative Code (F.A.C.).
2. Testing of emissions must be accomplished at approximately the rates as stated in the application. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data (Chapter 403.161(1)(c), Florida Statutes).
3. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information as per Chapter 17-4.14, F.A.C.
  - (A) Annual amount of materials and/or fuels utilized.
  - (B) Annual emissions (note calculation basis).
  - (C) Any changes in the information contained in the permit application.

Appl. Name: Sikes Corporation  
Project: Tile Drying  
Page 4 of 4 of Permit No.: AO53-18301


Expiration Date:

May 10, 1984

Issued this 30 day of May,

19 79

STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL REGULATION

  
P. David Puchaty  
District Manager

PAID  
3-16-79  
A053-18301



D.E.R.

MAR 16 1979

SOUTHWEST DISTRICT  
TAMPA

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION  
APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

Source Type:  Air Pollution  Incinerator  
Application Type:  Construction  Operation  Modification  Renewal of DER Permit No. A053-2504  
Company Name: SIKES CORPORATION County: POLK

Identify the specific emission point source(s) addressed in this application (i.e.: Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired): DRYING FACILITIES

Source Location: Street: 608 PROSPECT STREET City: LAKELAND, FLORIDA 33802

UTM: East \_\_\_\_\_ North \_\_\_\_\_  
Latitude: 28° 02' 45" N. Longitude: 81° 57' 45" W.

Appl. Name and Title: FLORIDA TILE INDUSTRIES, INC., A DIVISION OF SIKES CORPORATION  
Appl. Address: 608 PROSPECT ST., P.O. Box 447, LAKELAND, FLORIDA 33802

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative of\* SIKES CORPORATION  
AIR POLLUTION OPERATION  
I certify that the statements made in this application for a \_\_\_\_\_ permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department and revisions thereof. I also understand that a permit, if granted by the Department, will be nontransferable and I will promptly notify the Department upon sale or legal transfer of the permitted establishment.

LEON R. SIKES, JR. PRESIDENT

Name of Person Signing (please Type or Print)

B. J. Sandy Engr. Manager

Signature of the Owner or Authorized Representative and Title

Date: March 9-79 Telephone No: (813) 683-5431

\* Attach a letter of authorization.

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgement, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the Department. It is also agreed that the undersigned will furnish the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signature: Jerry W. Hardin  
Name: JERRY W. HARDIN, P.E.

(Please Type)

Company Name: HARDIN ENGINEERING

Florida Registration Number: 20,331

(Affix Seal)

Mailing Address: 3237 CLEVELAND HGTS. BLVD.

LAKELAND, FLORIDA 33803

Telephone No.: (813) 646-0496

Date: MARCH 5, 1979

SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

PRESSED TRIM GREENWARE SHAPES ARE PALLETIZED AND PLACED INTO DRYERS TO REMOVE MOISTURE. GAS FIRED HEAT EXCHANGE TUBES GENERATE WARM AIR WHICH IS CIRCULATED THROUGH PALLETIZED WARE FOR DRYING, AIR CIRCULATED THROUGH WARE FOR DRYING PURPOSES IS NOT EXHAUSTED. EXISTING DRYING FACILITIES ARE USED TO REMOVE MOISTURE FROM PRESSED GREENWARE SHAPES. MOISTURE REMOVAL IS NECESSARY FOR PROPER GLAZE APPLICATION TO WARE. DRYERS ARE IN COMPLIANCE

B. Schedule of Project Covered in this Application (Construction Permit Application Only).

Start of Construction: \_\_\_\_\_ Completion of Construction: \_\_\_\_\_

C. Costs of Construction. (Note: show breakdown of estimated costs only for individual components/units of the project serving pollution control purpose. Information on actual costs shall be furnished with the application for operation permit.)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

A053-2155 ISSUED (DATE UNKNOWN) EXPIRES JANUARY 1, 1974

A053-2504 ISSUED FEBRUARY 15, 1974 EXPIRES FEBRUARY 15, 1979

E. Is the emission point considered to be a New\* or Existing\* source, as defined in Chapter 17-2.02(5) & (6), Florida Administrative Code?  
\_\_\_\_ New  Existing

F. Is this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 22F-2, Florida Administrative Code? \_\_\_\_ Yes \_\_\_\_ No

G. Normal Equipment Operating Time: hrs/day: 24 ; days/wk: 7 ; wks/yr: \_\_\_\_\_ ; if seasonal, describe: \_\_\_\_\_

DEPENDS UPON DEMAND

\*Note

New Source: any source which came into existence, began operation or construction, or received a permit for the letter on or after January 18, 1972.

Existing Source: any source in existence, operating or under construction (or with a permit to construct) prior to January 18, 1972.

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES

(other than incinerators)

A. Raw Materials and Chemicals Used in Your Process:

Description	Utilization Rate lbs./hr.	Relate to Flow Diagram
TALC, BALL CLAY, WOLLASTONITE WHITING, SPB-11 SECRET BLEND	75,000#/DAY	DRYING

B. Process Rate:

- 1) Total Process Input Rate (lbs./hr.): 3,125
- 2) Product Weight (lbs/hr): 3,125
- 25,000 SQ.FT./DAY @ 3#/SQ.FT. - 24HRS./DAY/7DAYS/WEEK

C. Airborne Contaminants Discharged:

Name of Contaminant	Actual Discharge*		Allowed Discharge Rate Per Ch. 17-2, F.A.C.**	Allowable Discharge*** (lbs./hr.)	Relate to Flow Diagram
	lbs./hr.	T/yr.			
PRODUCTS OF COMBUSTION OF NATURAL GAS	NOT PERCEPTIBLE TO EYE		2,080,000 BTU/HR. INPUT	NOT DETERMINED	DRYING

D. Control Devices:

Name and Type (Model and Serial No.)	Contaminant	Efficiency†	Range of Particles Size Collected (in microns)	Basis for Efficiency††
NONE REQUIRED				DRYING

\* Estimate only if this is an application to construct.

\*\* Specify units in accordance with emission standards prescribed within Section 17-2.04, F.A.C. (e.g. Section 17-2.04(6)(e)1.a. specifies that new fossil fuel steam generators are allowed to emit particulate matter at a rate of 0.1 lbs. per million BTU heat input computed as a maximum 2-hour average.)

\*\*\* Using above example for a source with 260 million BTU per hour heat input:  $\frac{0.1 \text{ lbs.}}{\text{MMBTU}} \times \frac{260 \text{ MMBTU}}{\text{hr.}} = 26 \text{ lbs./hr.}$

† See Supplemental Requirements, page 5, number 2.

†† Indicate whether the efficiency value is based upon performance testing of the device or design data.

E. Fuels:

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg./hr.	Max./hr.	
NATURAL GAS	48,000 CU.FT./DAY		2,080,000

\*Units: Natural Gas - MMCF/hr.; Fuel Oils, Coal - lbs./hr.

Fuel Analysis:

Percent Sulfur: \_\_\_\_\_ Percent Ash: \_\_\_\_\_  
 Density: \_\_\_\_\_ lb./gal.  
 Heat Capacity: \_\_\_\_\_ BTU/lb. \_\_\_\_\_ BTU/gal.  
 Other Fuel Contaminants: \_\_\_\_\_

F. If applicable, indicate the percent of fuel used for space heating: \_\_\_\_\_ Annual Average: \_\_\_\_\_ Maximum: \_\_\_\_\_

G. Indicate liquid or solid wastes generated and method of disposal:

NO WASTES GENERATED.

H. Emission Stack Geometry and Flow Characteristics (provide data for each stack):

Stack Height: GRAVITY STACK HEIGHT 30' ft. Stack Diameter: \_\_\_\_\_ ft.  
 Gas Flow Rate: 34.7 CFM ACFM Gas Exit Temperature: 140-160° °F  
 Water Vapor Content: NOT DETERMINED %

MOISTURE DRIVEN FROM GREENWARE ESCAPES AS FUGITIVE MOISTURE.

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type O (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Lbs./Hr. Incinerated							

Description of Waste: \_\_\_\_\_

Total Weight Incinerated (lbs./hr.): \_\_\_\_\_ Design Capacity (lbs./hr.): \_\_\_\_\_

Approximate Number of Hours of Operation per Day: \_\_\_\_\_ days/week: \_\_\_\_\_

Manufacturer: \_\_\_\_\_

Date Constructed: \_\_\_\_\_ Model No.: \_\_\_\_\_

7601 HIGHWAY 301 NORTH  
TAMPA, FLORIDA 33610

BEST AVAILABLE COPY



BOB GRAHAM  
GOVERNOR  
JACOB D. VARIAN  
SECRETARY  
DAVID PUCHATY  
DISTRICT MANAGER

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT  
Polk County AP  
Sikes Corporation

Mr. Leon R. Sikes, Jr., Pres.  
Sikes Corporation  
608 Prospect St.  
P.O. Box 447  
Lakeland, Fla. 33802

Dear Mr. Sikes:

Enclosed is Permit Number A053-18303, dated May 30, 1979,  
to operate the subject pollution source, issued pursuant  
to Section 403, Florida Statutes.

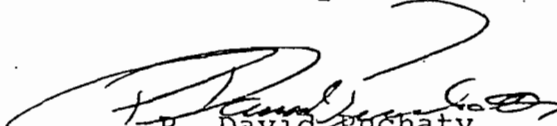
Should you object to this permit, including any and all of the conditions contained therein, you may file an appropriate petition for administrative hearing. This petition must be filed within fourteen (14) days of the receipt of this letter. Further, the petition must conform to the requirements of Section 28-5.15, Florida Administrative Code, (copy enclosed). The petition must be filed with the Office of General Counsel, Department of Environmental Regulation, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32301.

If no petition is filed within the prescribed time, you will be deemed to have accepted this permit and waived your right to request an administrative hearing on this matter.

Acceptance of the permit constitutes notice and agreement that the department will periodically review this permit for compliance, including site inspections where applicable, and may initiate enforcement action for violation of the conditions and requirements thereof.

cc: Record Center  
Jerry W. Hardin, P.E.

Sincerely,

  
P. David Puchaty  
District Manager

Enclosure

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

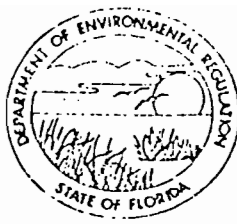
28-5.15 Requests for Formal and Informal Proceedings

- (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.

---

NOTE: At a formal hearing all parties shall have an opportunity to present evidence and argument on all issues involved, to conduct cross-examination and submit rebuttal evidence, to submit proposed findings of fact and orders, to file exceptions to any order or hearing officer's recommended order, and to be represented by counsel.





STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

APPLICANT:

SIKES CORPORATION  
608 Prospect Street  
P.O. Box 447  
Lakeland, Fla. 33802

PERMIT/CERTIFICATION  
NO. A053-18303

COUNTY: Polk

PROJECT: Batching facility

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and made a part hereof and specifically described as follows:

Bulk Batching Facility with Micro-Pulsair Dust Collectors.

Located at 608 Prospect Street, Lakeland, Fla.

UTM: 17 East 405.2 North 3102.2

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 Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court 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 indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.

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

4. As provided in subsection 403.087(6), 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.

5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.

6. 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 Section 403.111, F.S.

7. In the case of an operation permit, 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.

8. 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, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.

9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.

10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.

11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.

12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation 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.

13. This permit also constitutes:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

SPECIFIC CONDITIONS:

1. Test for plume density (visible emissions) at intervals of 12 months from the date of 2/23/79 and submit a copy of the test to the District Engineer of this agency with fifteen days of such testing. (Chapter 17-2.07(1), Florida Administrative Code (F.A.C.).
2. Testing of emissions must be accomplished at approximately the rates as stated in the application. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data (Chapter 403.161(1)(c), Florida Statutes).
3. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information as per Chapter 17-4.14, F.A.C.
  - (A) Annual amount of materials and/or fuels utilized.
  - (B) Annual emissions (note calculation basis).
  - (C) Any changes in the information contained in the permit application.

Appl. Name: Lakes Corporation  
Project: Batching Facility  
Page 4 of 4 of Permit No.: A053-18303

Expiration Date:  
May 10, 1984

Issued this 30 day of May,  
1979.

STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL REGULATION

  
P. David Puchaty  
District Manager

PAID  
3-16-79  
A053-18303



STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

DER  
MAY 16 1979  
SOUTHWEST DISTRICT  
TAMPA

Source Type:  Air Pollution  Incinerator  
Application Type:  Construction  Operation  Modification  Renewal of DER Permit No. A053-2501  
Company Name: SIKES CORPORATION County: POLK

Identify the specific emission point source(s) addressed in this application (i.e.: Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired): BATCHING STATION, MICRO-PULSAIR DUST COLLECTOR

Source Location: Street: 608 PROSPECT STREET City: LAKELAND, FLORIDA 33802

UTM: East \_\_\_\_\_ North \_\_\_\_\_  
Latitude: 28 ° 02 ' 45 "N. Longitude: 81 ° 57 ' 45 "W.

Appl. Name and Title: FLORIDA TILE INDUSTRIES, INC., A DIVISION OF SIKES CORPORATION  
Appl. Address: 608 PROSPECT ST., P.O. BOX 447, LAKELAND, FLORIDA 33802

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative of\* SIKES CORPORATION

I certify that the statements made in this application for a AIR POLLUTION OPERATION permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department and revisions thereof. I also understand that a permit, if granted by the Department, will be nontransferable and I will promptly notify the Department upon sale or legal transfer of the permitted establishment.

LEON R. SIKES, JR., PRESIDENT  
Name of Person Signing (please Type or Print)

B. J. Gandy Engng Manager  
Signature of the Owner or Authorized Representative and Title  
Date March 9-79 Telephone No. (813) 683-5431

\*Attach a letter of authorization.

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgement, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the Department. It is also agreed that the undersigned will furnish the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signature: Jerry W. Hardin  
Name: JERRY W. HARDIN, P.E.  
(Please Type)  
Company Name: HARDIN ENGINEERING  
Florida Registration Number: 20,331

Mailing Address: 3237 CLEVELAND HGTS. BLVD.  
LAKELAND, FLORIDA 33803  
Telephone No.: (813) 646-0496  
Date: MARCH 5, 1979

(Affix Seal)

SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

EXISTING MICRO-PULSAIR DUST COLLECTOR GATHERS DUST PRODUCED BY BATCHING AND IMMEDIATELY PLACES DUST BACK INTO PROCESS. EXISTING BATCHING FACILITY IS IN COMPLIANCE. BULK MATERIALS AND BAGGED MATERIALS ARE BATCHED BY WEIGHT AND PLACED INTO BLENDING TANKS. BLENDED MATERIALS ARE PNEUMATICALLY CONVEYED TO EITHER OF 3 MIXER SYSTEMS. DUST GENERATED BY BATCHING IS COLLECTED AND PLACED BACK INTO PROCESS.

B. Schedule of Project Covered in this Application (Construction Permit Application Only).

Start of Construction: \_\_\_\_\_ Completion of Construction: \_\_\_\_\_

C. Costs of Construction. (Note: show breakdown of estimated costs only for individual components/units of the project serving pollution control purpose. Information on actual costs shall be furnished with the application for operation permit.)

MICRO-PULSAIR DUST COLLECTOR MODEL 25-G-100	\$5,540
---	---------

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

A053-2155 ISSUED (DATE UNKNOWN) EXPIRES JANUARY 1, 1974  
 A053-2501 ISSUED FEBRUARY 15, 1974 EXPIRES FEBRUARY 15, 1979

E. Is the emission point considered to be a New\* or Existing\* source, as defined in Chapter 17-2.02(5) & (6), Florida Administrative Code?  
 \_\_\_ New \_\_\_X Existing

F. Is this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 22F-2, Florida Administrative Code? \_\_\_ Yes \_\_\_ No

G. Normal Equipment Operating Time: INTERMITTENTLY 16 HRS/DAY hrs/day: \_\_\_\_\_ ; days/wk: \_\_\_\_\_ ; wks/yr: \_\_\_\_\_ ; if seasonal, describe: \_\_\_\_\_

DEPENDS UPON DEMAND

\*Note  
 New Source: any source which came into existence, began operation or construction, or received a permit for the latter on or after January 18, 1972  
 Existing Source: any source in existence, operating or under construction (or with a permit to construct) prior to January 18, 1972.

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES

(other than incinerators)

A. Raw Materials and Chemicals Used in Your Process:

Description	Utilization Rate - lbs./hr.	Relate to Flow Diagram
TALC, BALL CLAY, WOLLASTONITE, WHITING, SPB-11 SECRET BLEND	263,000#/DAY	BATCHING STATION

B. Process Rate:

1) Total Process Input Rate (lbs./hr.): 25,925  
 2) Product Weight (lbs/hr): 60-65 #/CU.FT.  
8.5 BATCHES/HR. @ 3050#, INTERMITTENTLY - 16HRS./DAY

C. Airborne Contaminants Discharged:

Name of Contaminant	Actual Discharge*		Allowed Discharge Rate Per Ch. 17-2, F.A.C.**	Allowable Discharge*** (lbs./hr.)	Relate to Flow Diagram
	lbs./hr.	T/yr.			
SPB-11 SECRET BLEND OF CLAYS	NOT PERCEPTIBLE TO EYE		2.23#/TON	28.85#/HR. (12.96T./HR. RATE)	BATCHING STATION
N.Y. TALC, BALL CLAY, WOLLASTONITE WHITING					

D. Control Devices:

Name and Type (Model and Serial No.)	Contaminant	Efficiency†	Range of Particles Size Collected (in microns)	Basis for Efficiency††
MICRO-PULSAIR DUST COLLECTOR MODEL 25-G-100		99.9%	½ MICRON+	COLLECTOR OPERATES 16 HRS./DAY 2760 CFM @ 7" SP

\* Estimate only if this is an application to construct.

\*\* Specify units in accordance with emission standards prescribed within Section 17-2.04, F.A.C. (e.g. Section 17-2.04(6)(e)1.a. specifies that new fossil fuel steam generators are allowed to emit particulate matter at a rate of 0.1 lbs. per million BTU heat input computed as a maximum 2-hour average.)

\*\*\* Using above example for a source with 260 million BTU per hour heat input:  $\frac{0.1 \text{ lbs.}}{\text{MMBTU}} \times \frac{260 \text{ MMBTU}}{\text{hr.}} = 26 \text{ lbs./hr.}$

† See Supplemental Requirements, page 5, number 2.

†† Indicate whether the efficiency value is based upon performance testing of the device or design data.

E. Fuels:

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg./hr.	Max./hr.	
N.A.			

\*Units: Natural Gas - MMBTU/hr.; Fuel Oils, Coal - lbs./hr.

Fuel Analysis:

Percent Sulfur: \_\_\_\_\_ Percent Ash: \_\_\_\_\_  
 Density: \_\_\_\_\_ lb./gal.  
 Heat Capacity: \_\_\_\_\_ BTU/lb. \_\_\_\_\_ BTU/gal.  
 Other Fuel Contaminants: \_\_\_\_\_

F. If applicable, indicate the percent of fuel used for space heating: Annual Average: \_\_\_\_\_ Maximum: \_\_\_\_\_

G. Indicate liquid or solid wastes generated and method of disposal:

NO WASTES GENERATED - ANY COLLECTED MATERIALS ARE IMMEDIATELY PLACED BACK INTO PROCESS.

H. Emission Stack Geometry and Flow Characteristics (provide data for each stack): (COLLECTOR BLOWER DISCHARGE)  
 Stack Height: 20' ABOVE GROUND ft. Stack Diameter: \_\_\_\_\_ ft.  
 Gas Flow Rate: 2760 CFM@ 7" S.P. ACFM Gas Exit Temperature: 85-90<sup>0</sup> °F  
 Water Vapor Content: LESS THAN 1.5% % DISCHARGE = .916 SQ.FT.(11x12)

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type O (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Lbs./Hr. Incinerated							

Description of Waste: \_\_\_\_\_  
 Total Weight Incinerated (lbs./hr.): \_\_\_\_\_ Design Capacity (lbs./hr.): \_\_\_\_\_  
 Approximate Number of Hours of Operation per Day: \_\_\_\_\_ days/week: \_\_\_\_\_  
 Manufacturer: \_\_\_\_\_  
 Date Constructed: \_\_\_\_\_ Model No.: \_\_\_\_\_



7601 HIGHWAY 301 NORTH  
TAMPA, FLORIDA 33510



BOB GRAHAM  
GOVERNOR

JACOB D. VARR  
SECRETARY

DAVID PUCHATY  
DISTRICT MANAGER

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

Polk County AP  
Sikes Corporation

Mr. Leon R. Sikes, Jr., Pres.  
Sikes Corporation  
608 Prospect St.  
P.O. Box 447  
Lakeland, Fla. 33802

Dear Mr. Sikes:

Enclosed is Permit Number A053-18300, dated May 30, 1979,  
to operate the subject pollution source, issued pursuant  
to Section 403, Florida Statutes.

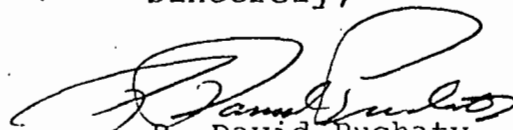
Should you object to this permit, including any and all of the conditions contained therein, you may file an appropriate petition for administrative hearing. This petition must be filed within fourteen (14) days of the receipt of this letter. Further, the petition must conform to the requirements of Section 28-5.15, Florida Administrative Code, (copy enclosed). The petition must be filed with the Office of General Counsel, Department of Environmental Regulation, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32301.

If no petition is filed within the prescribed time, you will be deemed to have accepted this permit and waived your right to request an administrative hearing on this matter.

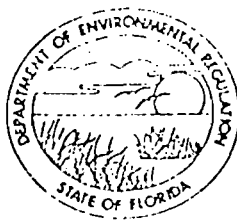
Acceptance of the permit constitutes notice and agreement that the department will periodically review this permit for compliance, including site inspections where applicable, and may initiate enforcement action for violation of the conditions and requirements thereof.

cc: Record Center  
Jerry W. Hardin, P.E.

Sincerely,

  
P. David Puchaty  
District Manager

Enclosure



STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

APPLICANT:

SIKES CORPORATION  
608 Prospect Street  
P.O. Box 447  
Lakeland, Fla. 33802

PERMIT/CERTIFICATION  
NO. AO53-18300

COUNTY: Polk

PROJECT: Storage Silos

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and made a part hereof and specifically described as follows:

Storage silos connected to three Micro-Pulsaire Collectors.

Located at 608 Prospect Street, Lakeland, Fla.

UTM: 17 East 405.2 North 3102.2

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 Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court 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 indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.

3. 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 non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. 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.
4. As provided in subsection 403.087(6), 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.
5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.
6. 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 Section 403.111, F.S.
7. In the case of an operation permit, 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.
8. 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, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.
9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.
10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.

11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.

12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation 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.

13. This permit also constitutes:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

SPECIFIC CONDITIONS:

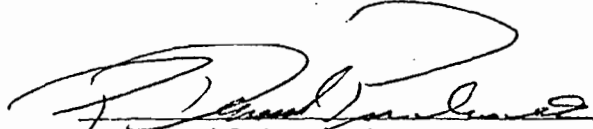
1. Test for plume density (visible emissions) at intervals of 12 months from the date of 2/23/79 and submit a copy of the test to the District Engineer of this agency with fifteen days of such testing. (Chapter 17-2.07(1), Florida Administrative Code (F.A.C.).
2. Testing of emissions must be accomplished at approximately the rates as stated in the application. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data (Chapter 403.161(1)(c), Florida Statutes).
3. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information as per Chapter 17-4.14, F.A.C.
  - (A) Annual amount of materials and/or fuels utilized.
  - (B) Annual emissions (note calculation basis).
  - (C) Any changes in the information contained in the permit application.

Appl. Name:       kes Corporation  
Project: Storage Silos  
Page   4   of   4   of Permit No.: A053-18300

Expiration Date:  
May 10, 1984

Issued this   30   day of   May  ,  
19  79  .

STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL REGULATION



P. David Puchaty  
District Manager

STORAGE SILOS  
MICRO-PULSAIR COLLECTORS

3-16-79 H  
A053-18300



D.E.R.

MAR 16 1979

SOUTHWEST DISTRICT  
TAMPA

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

Source Type:  Air Pollution  Incinerator  
Application Type:  Construction  Operation  Modification  Renewal of DER Permit No. A053-2505  
Company Name: SIKES CORPORATION County: POLK

Identify the specific emission point source(s) addressed in this application (i.e.: Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gus Fired): STORAGE SILOS, MICRO-PULSAIR DUST COLLECTORS  
Source Location: Street: 608 PROSPECT STREET City: LAKELAND, FLORIDA 33802

UTM: East \_\_\_\_\_ North \_\_\_\_\_  
Latitude: 28° 02' 45" N. Longitude: 81° 57' 45" W.

Appl. Name and Title: FLORIDA TILE INDUSTRIES, INC., A DIVISION OF SIKES CORPORATION  
Appl. Address: 608 PROSPECT ST., P.O. BOX 447, LAKELAND, FLA. 33802

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

SIKES CORPORATION

I am the undersigned owner or authorized representative of\* SIKES CORPORATION  
I certify that the statements made in this application for a AIR POLLUTION OPERATION permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department and revisions thereof. I also understand that a permit, if granted by the Department, will be nontransferable and I will promptly notify the Department upon sale or legal transfer of the permitted establishment.

LEON R. SIKES, JR., PRESIDENT

Name of Person Signing (please Type or Print)

B. J. Gandy, Engr. Manager  
Signature of the Owner or Authorized Representative and Title

Date March 9-79 Telephone No.: (813)683-5431

\*Attach a letter of authorization.

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgement, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the Department. It is also agreed that the undersigned will furnish the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signature: Jerry W. Hardin  
Name: JERRY W. HARDIN, P.E.  
(Please Type)

Mailing Address: 3237 CLEVELAND HGTS. BLVD., LAKELAND, FLORIDA 33802

Company Name: HARDIN ENGINEERING  
Florida Registration Number: 20,331

Telephone No.: (813) 646-0496  
Date: MARCH 5, 1979

(Affix Seal)

SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

EXISTING FACILITY - 3 STORAGE SILOS EACH HAVING ITS OWN  
 MICRO-PULSAIR DUST COLLECTOR  
 SILOS AND COLLECTORS ARE IN COMPLIANCE

BULK MATERIAL RECEIVED IN RAIL CARS IS PNEUMATICALLY CONVEYED  
 INTO 3 STORAGE SILOS- MICRO-PULSAIR DUST COLLECTORS REMOVE DUST  
 FROM CONVEYING AIR. MATERIALS ARE PLACED INTO SILOS IN 70% OF  
 8 HOUR DAY.

B. Schedule of Project Covered in this Application (Construction Permit Application Only).

Start of Construction: \_\_\_\_\_ Completion of Construction: \_\_\_\_\_

C. Costs of Construction. (Note: show breakdown of estimated costs only for individual components/units of the project serving pollution control purpose. Information on actual costs shall be furnished with the application for operation permit.)

MICRO-PULSAIR DUST COLLECTOR MODEL 25S-6-30	
@\$2,827.00 x 3 UNITS	\$8,481.00
COLLECTOR INSTALLATION COSTS ARE COMBINED WITH	
ENTIRE PROJECT COSTS ESTIMATED AT \$2,500 EACH	\$7,500.00

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

A053-2155 ISSUED (DATE UNKNOWN) EXPIRES JANUARY 1, 1974

A053-2505 ISSUED FEBRUARY 15, 1974 EXPIRES FEBRUARY 15, 1979

E. Is the emission point considered to be a New\* or Existing\* source, as defined in Chapter 17-2.02(5) & (6), Florida Administrative Code?  
 \_\_\_\_\_ New \_\_\_\_\_ Existing

F. Is this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 22F-2, Florida Administrative Code? \_\_\_\_\_ Yes \_\_\_\_\_ No

G. Normal Equipment Operating Time: hrs/day: 70% OF 8HR, DAY ; days/wk: \_\_\_\_\_ ; wks/yr: \_\_\_\_\_ ; if seasonal, describe: \_\_\_\_\_

\*Note

New Source: any source which came into existence, began operation or construction, or received a permit for the latter on or after January 18, 1972.

Existing Source: any source in existence, operating or under construction (or with a permit to construct) prior to January 18, 1972.

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES

(other than incinerators)

A. Raw Materials and Chemicals Used in Your Process:

Description	Utilization Rate lbs./hr.	Relate to Flow Diagram
SPD-11 SECRET BLEND OF CLAYS	234,00#/DAY	STORAGE SILOS
N.Y. TALC		
BALL CLAY		

MATERIALS ARE PLACED INTO SILOS AT RATE OF 36.36 TPH.

B. Process Rate:

- 1) Total Process Input Rate (lbs./hr.): 72,720
- 2) Product Weight (lbs/hr): 45-55#/CU.FT.

BASED ON 200 TONS/70% OF 8 HR. DAY

C. Airborne Contaminants Discharged:

Name of Contaminant	Actual Discharge*		Allowed Discharge Rate Per Ch. 17-2, F.A.C.**	Allowable Discharge*** (lbs./hr.)	Relate to Flow Diagram
	lbs./hr.	T/yr.			
SPB-11 SECRET BLEND OF CLAY					
NY TALC	NOT PERCEPTIVE TO EYE		2,769#/TON	100.70#/HR.	STORAGE SILOS
BALL CLAY					

D. Control Devices:

Name and Type (Model and Serial No.)	Contaminant	Efficiency†	Range of Particles Size Collected (in microns)	Basis for Efficiency††
MICRO-PULSAIRE DUST COLLECTOR		99.9%	½ MICRON+	STORAGE SILOS
MODEL 25S-6-30				COLLECTORS OPERATE DURING FILLING OPERATION

\* Estimate only if this is an application to construct.

\*\* Specify units in accordance with emission standards prescribed within Section 17-2.04, F.A.C. (e.g. Section 17-2.04(6)(e)1.a. specifies that new fossil fuel steam generators are allowed to emit particulate matter at a rate of 0.1 lbs. per million BTU heat input computed as a maximum 2-hour average.)

\*\*\* Using above example for a source with 260 million BTU per hour heat input:  $\frac{0.1 \text{ lbs}}{\text{MMBTU}} \times \frac{260 \text{ MMBTU}}{\text{hr.}} = 26 \text{ lbs./hr.}$

† See Supplemental Requirements, page 5, number 2.

†† Indicate whether the efficiency value is based upon performance testing of the device or design data.



E. Fuels:

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg./hr.	Max./hr.	
N.A.			

\*Units: Natural Gas - MMCF/hr.; Fuel Oils, Coal - lbs./hr.

Fuel Analysis:

Percent Sulfur: \_\_\_\_\_ Percent Ash: \_\_\_\_\_

Density: \_\_\_\_\_ lb./gal.

Heat Capacity: \_\_\_\_\_ BTU/lb. \_\_\_\_\_ BTU/gal.

Other Fuel Contaminants: \_\_\_\_\_

F. If applicable, indicate the percent of fuel used for space heating: \_\_\_\_\_ Annual Average: \_\_\_\_\_ Maximum: \_\_\_\_\_

G. Indicate liquid or solid wastes generated and method of disposal:

NO WASTES GENERATED - ANY COLLECTED MATERIALS ARE IMMEDIATELY DEPOSITED INTO STORAGE SILOS.

H. Emission Stack Geometry and Flow Characteristics (provide data for each stack):

Stack Height: 2 @ 73', 1 @ 88' ABOVE GROUND

Gas Flow Rate: 1,600 CFM @ 7" S.P. ACFM

Water Vapor Content: LESS THAN 1.5% %

(COLLECTOR BLOWER DISCHARGE)  
Stack Diameter: .25 SQ. FT. AREA (6" x 6")  
Gas Exit Temperature: 85-90° °F

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type O (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Lbs./Hr. Incinerated							

Description of Waste: \_\_\_\_\_

Total Weight Incinerated (lbs./hr.): \_\_\_\_\_ Design Capacity (lbs./hr.): \_\_\_\_\_

Approximate Number of Hours of Operation per Day: \_\_\_\_\_, days/week: \_\_\_\_\_

Manufacturer: \_\_\_\_\_

Date Constructed: \_\_\_\_\_ Model No.: \_\_\_\_\_

7601 HIGHWAY 301 NORTH  
TAMPA, FLORIDA 33610



BOB GRAHAM  
GOVERNOR

JACOB D. VARI  
SECRETARY

DAVID PUCHATY  
DISTRICT MANAGER

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT  
Polk County AP  
Sikes Corporation

Mr. Leon R. Sikes, Jr., Pres.  
Sikes Corporation  
608 Prospect St.  
P.O. Box 447  
Lakeland, Fla. 33802

Dear Mr. Sikes:

Enclosed is Permit Number A053-18298, dated May 30, 1979,  
to operate the subject pollution source, issued pursuant  
to Section 403, Florida Statutes.


Should you object to this permit, including any and all of the conditions contained therein, you may file an appropriate petition for administrative hearing. This petition must be filed within fourteen (14) days of the receipt of this letter. Further, the petition must conform to the requirements of Section 28-5.15, Florida Administrative Code, (copy enclosed). The petition must be filed with the Office of General Counsel, Department of Environmental Regulation, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32301.

If no petition is filed within the prescribed time, you will be deemed to have accepted this permit and waived your right to request an administrative hearing on this matter.

Acceptance of the permit constitutes notice and agreement that the department will periodically review this permit for compliance, including site inspections where applicable, and may initiate enforcement action for violation of the conditions and requirements thereof.

cc: Record Center  
Jerry W. Hardin, P.E.

Sincerely,

  
P. David Puchaty  
District Manager

Enclosure

RULES OF THE ADMINISTRATION 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.

---

NOTE: At a formal hearing all parties shall have an opportunity to present evidence and argument on all issues involved, to conduct cross-examination and submit rebuttal evidence, to submit proposed findings of fact and orders, to file exceptions to any order or hearing officer's recommended order, and to be represented by counsel.



STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

APPLICANT:

Sikes Corporation  
608 Prospect Street  
P.O. Box 447  
Lakeland, Fla. 33802

PERMIT/CERTIFICATION  
NO. AO53-18298

COUNTY: Polk

PROJECT: Glaze Spray  
Operation

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and made a part hereof and specifically described as follows:

Glaze spraying of tile; over spray controlled with booth baffles.

Located at 608 Prospect Street, Lakeland, Fla.

UTM: 17 East 405.2 North 3102.2

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 Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court 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 indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.

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

4. As provided in subsection 403.087(6), 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.

5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.

6. 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 Section 403.111, F.S.

7. In the case of an operation permit, 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.

8. 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, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.

9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.

10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.

11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.

12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation 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.

13. This permit also constitutes:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

SPECIFIC CONDITIONS:

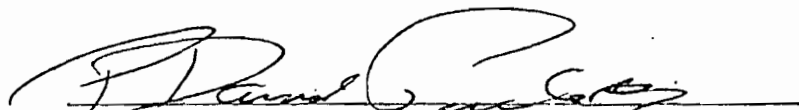
1. Test for plume density (visible emissions) at intervals of 12 months from the date of 2/23/79 and submit a copy of the test to the District Engineer of this agency with fifteen days of such testing. (Chapter 17-2.07(1), Florida Administrative Code (F.A.C.).
2. Testing of emissions must be accomplished at approximately the rates as stated in the application. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data (Chapter 403.161(1)(c), Florida Statutes).
3. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information as per Chapter 17-4.14, F.A.C.
  - (A) Annual amount of materials and/or fuels utilized.
  - (B) Annual emissions (note calculation basis).
  - (C) Any changes in the information contained in the permit application.

Appl. Name: Wikes Corporation  
Project: Gleze Spray Operation  
Page 4 of 4 of Permit No.: A053-18298

Expiration Date:  
May 10, 1984

Issued this 30 day of May,  
19 79

STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL REGULATION

  
P. David Puchaty  
District Manager

GLAZING AREAS (8)  
#101 BINKS AIR CAPS

3-16-79  
A053-18298



STATE OF FLORIDA

DER 244

D.E.R.

MAR 16 1979

SOUTHWEST DISTRICT  
TAMPA

DEPARTMENT OF ENVIRONMENTAL REGULATION  
APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

Source Type:  Air Pollution  Incinerator  
Application Type:  Construction  Operation  Modification  Renewal of DER Permit No. A053-2507  
Company Name: SIKES CORPORATION County: POLK  
Identify the specific emission point source(s) addressed in this application (i.e.: Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gus Fired): GLAZE SPRAY APPLICATION(8 UNITS) BINKS #101 AIR CAPS  
Source Location: Street: 608 PROSPECT STREET City: LAKELAND, FLORIDA  
UTM: East \_\_\_\_\_ North \_\_\_\_\_  
Latitude: 28 ° 02 ' 45 "N Longitude: 81 ° 57 ' 45 "W  
Appl. Name and Title: FLORIDA TILE INDUSTRIES INC., A DIVISION OF SIKES CORP.  
Appl. Address: 608 PROSPECT ST., P.O. BOX 447, LAKELAND, FLA. 33802

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative of\* SIKES CORPORATION

I certify that the statements made in this application for a AIR POLLUTION OPERATION permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department and revisions thereof. I also understand that a permit, if granted by the Department, will be nontransferable and I will promptly notify the Department upon sale or legal transfer of the permitted establishment.

LEON R. SIKES, JR., PRESIDENT B. J. Gandy Eng. Manager  
Name of Person Signing (Please Type or Print) Signature of the Owner or Authorized Representative and Title  
Date: March 7-79 Telephone No.: 813-683-5431

\* Attach a letter of authorization.

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgement, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the Department. It is also agreed that the undersigned will furnish the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signature: Jerry W. Hardin Mailing Address: 3237 CLEVELAND HGTS. BLVD.  
Name: JERRY W. HARDIN, P.E. LAKELAND, FLORIDA 33803  
(Please Type)  
Company Name: HARDIN ENGINEERING Telephone No.: (813) 646-0496  
Florida Registration Number 20,331 Date: MARCH 5, 1979

(Affix Seal)



SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

REPLACEMENT OF PREVIOUSLY USED EXTERNAL MIX SPARY NOZZLES WITH INTERNAL MIX SPRAY NOZZLES IMMENSELY REMOVE OVERSPRAY GENERATED IN SPRAY BOOTH. THIS RESULTS IN LOWER EXHAUST CAPACITY REQUIRED. UTILIZATION OF INTERNAL MIX SPRAY NOZZLES, REDUCTION OF EXHAUST CAPACITY REQUIRED RESULT IN REDUCTION OF PARTICULATE EMISSION FROM AVERAGE OF 7.85#/HR. TO ONLY 0.63#/HR. - OR IN FULL COMPLIANCE OF THE SOURCE.

WET GLAZE SPRAY OPERATION USING COMPRESSED AIR TO ATOMIZE GLAZE AND DEPOSIT ON TILE FACES GENERATES OVER-SPRAY. THIS OVERSPRAY IS DRAWN ACROSS TWO INTERNAL BOOTH BAFFLES AND FINALLY EXHAUSTED TO ATMOSPHERE

B. Schedule of Project Covered in this Application (Construction Permit Application Only).

Start of Construction: \_\_\_\_\_ Completion of Construction: \_\_\_\_\_

C. Costs of Construction. (Note: show breakdown of estimated costs only for individual components/units of the project serving pollution control purpose. Information on actual costs shall be furnished with the application for operation permit.)

BINKS # 101 AIR CAPS @ 27.00 EACH	\$1,350.00
BAFFLE INSTALLATIONS	\$1,274.97
EXHAUST FAN CAPACITY REDUCTION	
INTERNAL PLANT EXPENSES ESTIMATED	
AT \$250.00 PER BOOTH X 8	\$2,000.00

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

A053-2155 ISSUED (DATE UNKNOWN) EXPIRES JANUARY 1, 1974  
 A053-2507 ISSUED FEBRUARY 15, 1974 EXPIRES FEBRUARY 15, 1979

E. Is the emission point considered to be a New\* or Existing\* source, as defined in Chapter 17-2.02(5) & (6), Florida Administrative Code?  
 \_\_\_\_\_ New     Existing

F. Is this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 22F-2, Florida Administrative Code? \_\_\_\_\_ Yes    \_\_\_\_\_ No

G. Normal Equipment Operating Time: hrs/day: 16 ; days/wk: 7 ; wks/yr: \_\_\_\_\_ ; if seasonal, describe: \_\_\_\_\_

DEPENDS ON PRODUCT DEMAND

\*Note:

New Source: any source which came into existence, began operation or construction, or received a permit for the latter on or after January 18, 1972

Existing Source: any source in existence, operating or under construction for with a permit to construct prior to January 18, 1972

## SECTION III: AIR POLLUTION SOURCES &amp; CONTROL DEVICES

(other than incinerators)

## A. Raw Materials and Chemicals Used in Your Process:

Description	Utilization Rate lbs./hr.	Relate to Flow Diagram
GLAZE COMPOUNDS ONLY		
FRIT, FELDSPAR, BALL CLAY,	679,000#/MO.	GLAZE RAW MATERIALS
SILICA ALUMINA, ZINC OXIDE, ZIRCONIUM SILICATE, STAINS (REFER TO ATTACHMENT FOR COMPLETE LISTING)(EXACT BLEND OF MATERIALS IS A TRADE SECRET)	22,633#/DAY	

## B. Process Rate:

1) Total Process Input Rate (lbs./hr.): 15,200

2) Product Weight (lbs/hr): 3,680

PROCESS WEIGHT INCLUDES RECYCLING MATERIAL-1900#/HR. MACHINE (8 SPRAY MACHINES)

## C. Airborne Contaminants Discharged:

Name of Contaminant	Actual Discharge*		Allowed Discharge Rate Per Ch. 17-2, F.A.C.**	Allowable Discharge*** (lbs./hr.)	Relate to Flow Diagram
	lbs./hr.	T/yr.			
SAME BLEND AS ABOVE IN SECTION "A"	5.04#/HR (8 SPRAY MACHINES AT .63#/HR.) <i>per machine</i>		1.64#/TON (7.6TPH)	12.46#/HR.	GLAZE SPRAY APPLICATION DRAFT FAN TO ATMOSPHERE

## D. Control Devices:

Name and Type (Model and Serial No.)	Contaminant	Efficiency†	Range of Particles Size Collected (in microns)	Basis for Efficiency††
BINKS - INTERNAL MIX NOZZLES #101 -AIR CAP. SPRAY BOOTH BAFFLES & FAN		99%	WET SPRAY APPLICATION 325 MESH SCREEN	98%

\*Estimate only if this is an application to construct.

\*\*Specify units in accordance with emission standards prescribed within Section 17-2.04, F.A.C. (e.g. Section 17-2.04(6)(e)1.a. specifies that new fossil fuel steam generators are allowed to emit particulate matter at a rate of 0.1 lbs. per million BTU heat input computed as a maximum 2-hour average.)

\*\*\*Using above example for a source with 260 million BTU per hour heat input:  $\frac{0.1 \text{ lbs.}}{\text{MMBTU}} \times \frac{260 \text{ MMBTU}}{\text{hr.}} = 26 \text{ lbs./hr.}$ 

†See Supplemental Requirements, page 5, number 2.

††Indicate whether the efficiency value is based upon performance testing of the device or design data.

E. Fuels:

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg./hr.	Max./hr.	
N.A.			

\*Units: Natural Gas - MMCF/hr.; Fuel Oils, Coal - lbs./hr.

Fuel Analysis:

Percent Sulfur: \_\_\_\_\_ Percent Ash: \_\_\_\_\_  
 Density: \_\_\_\_\_ lb./gal.  
 Heat Capacity: \_\_\_\_\_ BTU/lb. \_\_\_\_\_ BTU/gal.  
 Other Fuel Contaminants: \_\_\_\_\_

F. If applicable, indicate the percent of fuel used for space heating: \_\_\_\_\_ Annual Average: \_\_\_\_\_ Maximum: \_\_\_\_\_

G. Indicate liquid or solid wastes generated and method of disposal:

WASTE GLAZES-SOLIDS SUSPENDED IN WATER, ARE WASHED FROM SPRAY MACHINE AND PUMPED INTO SERIES OF 3 SETTLING AREAS WHERE SOLIDS ARE REMOVED FROM WATER. WATER IS THEN DISCHARGED INTO STORM DRAIN.

H. Emission Stack Geometry and Flow Characteristics (provide data for each stack):

Stack Height: 30' ABOVE GROUND ft. Stack Diameter: 1'6" (1.76SQ.FT.AREA)  
 Gas Flow Rate: 1050 CFM ACFM Gas Exit Temperature: 85-90<sup>0</sup> °F  
 Water Vapor Content: 4.7% %

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type O (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Lbs./Hr. Incinerated							

Description of Waste: \_\_\_\_\_  
 Total Weight Incinerated (lbs./hr.): \_\_\_\_\_ Design Capacity (lbs./hr.): \_\_\_\_\_  
 Approximate Number of Hours of Operation per Day: \_\_\_\_\_, days/week: \_\_\_\_\_  
 Manufacturer: \_\_\_\_\_  
 Date Constructed: \_\_\_\_\_ Model No.: \_\_\_\_\_

7601 HIGHWAY 301 NORTH  
TAMPA, FLORIDA 33610



BOB GRAHAM  
GOVERNOR

JACOB D. VARN  
SECRETARY

DAVID PUCHATY  
DISTRICT MANAGER

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

Polk County AP  
Sikes Corporation

Mr. Leon R. Sikes, Jr., Pres.  
Sikes Corporation  
608 Prospect St.  
P.O. Box 447  
Lakeland, Fla. 33802

Dear Mr. Sikes:

Enclosed is Permit Number A053-18299, dated May 30, 1979,  
to operate the subject pollution source, issued pursuant  
to Section 403, Florida Statutes.

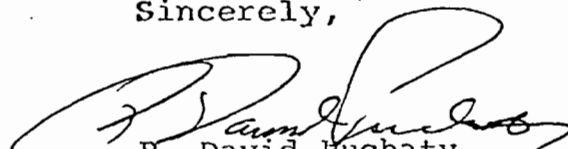
Should you object to this permit, including any and all of the conditions contained therein, you may file an appropriate petition for administrative hearing. This petition must be filed within fourteen (14) days of the receipt of this letter. Further, the petition must conform to the requirements of Section 28-5.15, Florida Administrative Code, (copy enclosed). The petition must be filed with the Office of General Counsel, Department of Environmental Regulation, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32301.

If no petition is filed within the prescribed time, you will be deemed to have accepted this permit and waived your right to request an administrative hearing on this matter.

Acceptance of the permit constitutes notice and agreement that the department will periodically review this permit for compliance, including site inspections where applicable, and may initiate enforcement action for violation of the conditions and requirements thereof.

cc: Record Center  
Jerry W. Hardin, P.E.

Sincerely,

  
P. David Puchaty  
District Manager

Enclosure

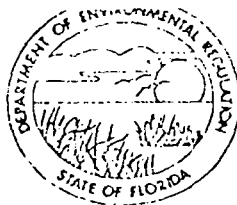
RULES OF THE ADMINISTRATION COMMISSION  
MODEL RULES OF PROCEDURE  
CHAPTER 28-5  
DECISIONS DETERMINING SUBSTANTIAL INTERESTS

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.

---

NOTE: At a formal hearing all parties shall have an opportunity to present evidence and argument on all issues involved, to conduct cross-examination and submit rebuttal evidence, to submit proposed findings of fact and orders, to file exceptions to any order or hearing officer's recommended order, and to be represented by counsel.



STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

APPLICANT:

SIKES CORPORATION  
608 Prospect Street  
P.O. Box 447  
Lakeland, Fla. 33802

PERMIT/CERTIFICATION  
NO. AO53-18299

COUNTY: Polk

PROJECT: Tile Presses

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and made a part hereof and specifically described as follows:

Tile pressing operation with Pangborn and W.W. Sly Dust Collectors.

Located at 608 Prospect Street, Lakeland, Fla.

UTM: 17 East 405.2 North 3102.2

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 Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court 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 indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.

3. 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 non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. 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.
4. As provided in subsection 403.087(6), 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.
5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.
6. 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 Section 403.111, F.S.
7. In the case of an operation permit, 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.
8. 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, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.
9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.
10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.

11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.

12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation 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.

13. This permit also constitutes:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

SPECIFIC CONDITIONS:

1. Test for plume density (visible emissions) at intervals of 12 months from the date of 2/23/79 and submit a copy of the test to the District Engineer of this agency with fifteen days of such testing. (Chapter 17-2.07(1), Florida Administrative Code (F.A.C.).
2. Testing of emissions must be accomplished at approximately the rates as stated in the application. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data (Chapter 403.161(1)(c), Florida Statutes).
3. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information as per Chapter 17-4.14, F.A.C.
  - (A) Annual amount of materials and/or fuels utilized.
  - (B) Annual emissions (note calculation basis).
  - (C) Any changes in the information contained in the permit application.



Appl. Name: Wikes Corporation  
Project: Till Presses  
Page 4 of 4 of Permit No.: A053-18299

Expiration Date:  
May 10, 1984

Issued this 30 day of May,  
1979.

STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL REGULATION

  
P. David Puchaty  
District Manager

DER 3111

3-16-79  
A053-18299



D.E.R.

MAR 16 1979

SOUTHWEST DISTRICT  
TAMPA

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

Source Type:  Air Pollution       Incinerator

Application Type:  Construction     Operation     Modification     Renewal of DER Permit No. A053-2506

Company Name: SIKES CORPORATION      County: POLK

Identify the specific emission point source(s) addressed in this application (i.e.: Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired): PRESSING OPERATIONS - PANGBORN & W.W. SLY DUST COLLECTORS

Source Location: Street: 608 PROSPECT STREET      City: LAKELAND, FLORIDA 33802

UTM: East \_\_\_\_\_ North \_\_\_\_\_

Latitude: 28° 02' 45" N.      Longitude: 81° 57' 45" W.

Appl. Name and Title: FLORIDA TILE INDUSTRIES, INC., A DIVISION OF SIKES CORP.

Appl. Address: 608 PROSPECT ST., P.O. Box 447, LAKELAND, FLA. 33802

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

SIKES CORPORATION

I am the undersigned owner or authorized representative of\* SIKES CORPORATION

I certify that the statements made in this application for a AIR POLLUTION OPERATION permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department and revisions thereof. I also understand that a permit, if granted by the Department, will be nontransferable and I will promptly notify the Department upon sale or legal transfer of the permitted establishment.

LEON R. SIKES, JR., PRESIDENT  
Name of Person Signing (please Type or Print)

B.J. Sandy, Engr. Manager  
Signature of the Owner or Authorized Representative and Title  
Date: March 9-79      Telephone No.: (813)683-5431

\* Attach a letter of authorization.

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgement, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the Department. It is also agreed that the undersigned will furnish the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signature: Jerry W. Hardin  
Name: JERRY W. HARDIN, P.E.  
(Please Type)

Mailing Address: 3237 CLEVELAND HGT'S. BLVD.  
LAKELAND, FLORIDA 33803

Company Name: HARDIN ENGINEERING  
Florida Registration Number: 20,331

Telephone No.: (813) 646-0496  
Date: MARCH 5, 1979

(Affix Seal)

SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

EXISTING PANGBORN AND W.W. SLY DUST COLLECTORS GATHER EXPELLED DUST PARTICLES FROM PRESSING OPERATIONS, PRESSING AND DUST COLLECTING FACILITIES ARE IN COMPLIANCE.

PREPARED BODY MATERIALS WHEN COMPRESSED INTO TILE SHAPES IN PRESSES, EXPELS AIR FROM MATERIALS, DUST PARTICLES CARRIED WITH THE EXPELLED AIR ARE COLLECTED BY BAG TYPE COLLECTORS FOR DISPOSAL

B. Schedule of Project Covered in this Application (Construction Permit Application Only).

Start of Construction: \_\_\_\_\_ Completion of Construction: \_\_\_\_\_

C. Costs of Construction. (Note: show breakdown of estimated costs only for individual components/units of the project serving pollution control purpose. Information on actual costs shall be furnished with the application for operation permit.)

PANGBORN DUST COLLECTOR - INSTALLED DURING 1950'S	
APPROXIMATE COST TODAY WOULD BE:	\$24,000
W.W. SLY COLLECTOR	
APPROXIMATE COST TODAY WOULD BE:	\$24,000
INSTALLATION COSTS NOT INCLUDED ABOVE	

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

A053-2155 ISSUED (DATE UNKNOWN) EXPIRES JANUARY 1, 1974  
 A053-2506 ISSUED FEBRUARY 15, 1974 EXPIRES FEBRUARY 15, 1979

E. Is the emission point considered to be a New\* or Existing\* source, as defined in Chapter 17-2.02(5) & (6), Florida Administrative Code?  
 \_\_\_ New  Existing

F. Is this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 22F-2, Florida Administrative Code? \_\_\_ Yes \_\_\_ No

G. Normal Equipment Operating Time: hrs/day: 16 ; days/wk: \_\_\_\_\_ ; wks/yr: \_\_\_\_\_ ; if seasonal, describe: \_\_\_\_\_

DEPENDS UPON DEMAND

\*Note

New Source: any source which came into existence, began operation or construction, or received a permit for the letter on or after January 18, 1972.

Existing Source: any source in existence, operating or under construction (or with a permit to construct) prior to January 18, 1972.

E. Fuels:

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg./hr.	Max./hr.	
N.A.			

\*Units: Natural Gas - MMCF/hr.; Fuel Oils, Coal - lbs./hr.

Fuel Analysis:  
 Percent Sulfur: \_\_\_\_\_ Percent Ash: \_\_\_\_\_  
 Density: \_\_\_\_\_ lb./gal.  
 Heat Capacity: \_\_\_\_\_ BTU/lb. \_\_\_\_\_ BTU/gal.  
 Other Fuel Contaminants: \_\_\_\_\_

F. If applicable, indicate the percent of fuel used for space heating: Annual Average: \_\_\_\_\_ Maximum: \_\_\_\_\_

G. Indicate liquid or solid wastes generated and method of disposal:  
3200 # WASTE DAILY TAKEN FROM DUST COLLECTORS AND PLACED INTO LAND FILL OPERATIONS

H. Emission Stack Geometry and Flow Characteristics (provide data for each stack): (COLLECTOR BLOWER DISCHARGE)  
 Stack Height: PANGBORN=20', W.W. SLY=30' ABOVE GROUND Stack Diameter: \_\_\_\_\_ ft.  
 Gas Flow Rate: 16,000 CFM ACFM Gas Exit Temperature: 85-90° °F  
 Water Vapor Content: LESS THAN 1.5% % DISCHARGE= PANGBORN 18x28"=3.5SQ.FT.  
 W.W. SLY 24x27"= 4.5SQ.FT.

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type O (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Lbs./Hr. Incinerated							

Description of Waste: \_\_\_\_\_  
 Total Weight Incinerated (lbs./hr.): \_\_\_\_\_ Design Capacity (lbs./hr.): \_\_\_\_\_  
 Approximate Number of Hours of Operation per Day: \_\_\_\_\_, days/week: \_\_\_\_\_  
 Manufacturer: \_\_\_\_\_  
 Date Constructed: \_\_\_\_\_ Model No.: \_\_\_\_\_

## SECTION III: AIR POLLUTION SOURCES &amp; CONTROL DEVICES

(other than incinerators)

## A. Raw Materials and Chemicals Used in Your Process:

Description	Utilization Rate lbs./hr.	Relate to Flow Diagram
TALC, BALL CLAY, WOLLASTONITE	263,000#/DAY	PRESSING
WHITING, S.P.B. -11		
SECRET BLEND		

## B. Process Rate:

- 1) Total Process Input Rate (lbs./hr.): 16,437.5
- 2) Product Weight (lbs/hr): 60-65#/CU.FT.

## C. Airborne Contaminants Discharged:

Name of Contaminant	Actual Discharge*		Allowed Discharge Rate Per Ch. 17-2, F.A.C.**	Allowable Discharge*** (lbs./hr.)	Relate to Flow Diagram
	lbs./hr.	T/yr.			
SPD-11 SECRET					
BLEND OF CLAYS	NOT PERCEPTIBLE		2.22#/TON	18.274#/HR.	PRESSING
N.Y. TALC,	TO EYE			8.21 TPH RATE	
BALL CLAY,					
WOLLASTONITE					
WHITING					

## D. Control Devices:

Name and Type (Model and Serial No.)	Contaminant	Efficiency†	Range of Particles Size Collected (in microns)	Basis for Efficiency††
PANGBORN COLLECTOR C-80		99.9%	½ MICRON+	
W.W. SLY COLLECTOR H-9054-A			COLLECTORS OPERATE 16/HRS./DAY 16,000 CFM EACH	

\*Estimate only if this is an application to construct.

\*\*Specify units in accordance with emission standards prescribed within Section 17-2.04, F.A.C. (e.g. Section 17-2.04(6)(e)1.a. specifies that new fossil fuel steam generators are allowed to emit particulate matter at a rate of 0.1 lbs. per million BTU heat input computed as a maximum 2-hour average.)

\*\*\*Using above example for a source with 260 million BTU per hour heat input:  $\frac{0.1 \text{ lbs.}}{\text{MMBTU}} \times \frac{260 \text{ MMBTU}}{\text{hr.}} = 26 \text{ lbs./hr.}$ 

†See Supplemental Requirements, page 5, number 2.

††Indicate whether the efficiency value is based upon performance testing of the device or design data.

7601 HIGHWAY 301 NORTH  
TAMPA, FLORIDA 33610



BOB GRAHAM  
GOVERNOR  
JACOB D. VARN  
SECRETARY  
DAVID PUCHATY  
DISTRICT MANAGER

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
SOUTHWEST DISTRICT  
Polk County AP  
Sikes Corporation

Mr. Leon R. Sikes, Jr., Pres.  
Sikes Corporation  
608 Prospect St.  
P.O. Box 447  
Lakeland, Fla. 33802

Dear Mr. Sikes:

Enclosed is Permit Number A053-18297, dated May 30, 1979,  
to operate the subject pollution source, issued pursuant  
to Section 403, Florida Statutes.

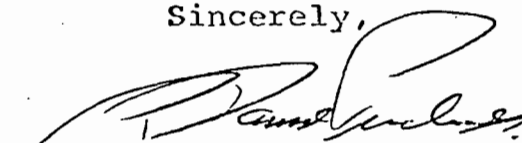
Should you object to this permit, including any and all of the conditions contained therein, you may file an appropriate petition for administrative hearing. This petition must be filed within fourteen (14) days of the receipt of this letter. Further, the petition must conform to the requirements of Section 28-5.15, Florida Administrative Code, (copy enclosed). The petition must be filed with the Office of General Counsel, Department of Environmental Regulation, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32301.

If no petition is filed within the prescribed time, you will be deemed to have accepted this permit and waived your right to request an administrative hearing on this matter.

Acceptance of the permit constitutes notice and agreement that the department will periodically review this permit for compliance, including site inspections where applicable, and may initiate enforcement action for violation of the conditions and requirements thereof.

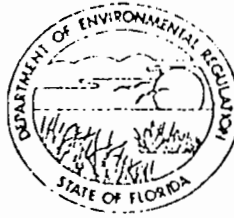
cc: Record Center  
Jerry W. Hardin, P.E.

Sincerely,



P. David Puchaty  
District Manager

Enclosure



STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
SOUTHWEST DISTRICT

APPLICANT:

SIKES CORPORATION  
608 Prospect Street  
P.O. Box 447  
Lakeland, Fla. 33802

PERMIT/CERTIFICATION  
NO. AO53-18297

COUNTY: Polk

PROJECT: Clay Blending  
Facility

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and made a part hereof and specifically described as follows:

Three Simpson Mixers with Micro-Pulsair Dust Collectors.

Located at 608 Prospect Street, Lakeland, Fla.

UTM: 17 East 405.2 North 3102.2

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 Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court 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 indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.

3. 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 non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. 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.
4. As provided in subsection 403.087(6), 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.
5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.
6. 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 Section 403.111, F.S.
7. In the case of an operation permit, 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.
8. 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, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.
9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.
10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.



11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.

12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation 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.

13. This permit also constitutes:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

SPECIFIC CONDITIONS:

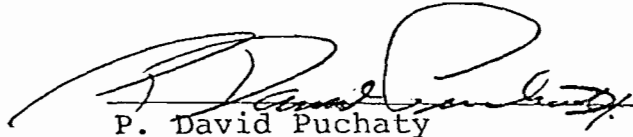
1. Test for plume density (visible emissions) at intervals of 12 months from the date of 2/23/79 and submit a copy of the test to the District Engineer of this agency with fifteen days of such testing. (Chapter 17-2.07(1), Florida Administrative Code (F.A.C.).
2. Testing of emissions must be accomplished at approximately the rates as stated in the application. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data (Chapter 403.161(1)(c), Florida Statutes).
3. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information as per Chapter 17-4.14, F.A.C.
  - (A) Annual amount of materials and/or fuels utilized.
  - (B) Annual emissions (note calculation basis).
  - (C) Any changes in the information contained in the permit application.

Appl. Name: ( )ikes Corporation  
Project: Clay Blending Facility  
Page 4 of 4 of Permit No.: A053-18297

Expiration Date:  
May 10, 1984

Issued this 30 day of May,  
1979.

STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL REGULATION



P. David Puchaty  
District Manager

MAR 16 1979

SOUTHWEST DISTRICT  
TAMPA



STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION  
APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

PAID  
3-16-79  
A053-18297

Source Type:  Air Pollution  Incinerator  
Application Type:  Construction  Operation  Modification  Renewal of DER Permit No. A053-2508  
Company Name: SIKES CORPORATION County: POLK  
Identify the specific emission point source(s) addressed in this application (i.e.: Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired): SIMPSON MIXERS, #1, #2, AND #3 WITH MICRO PULSAIR COLLECTORS  
Source Location: Street: 608 PROSPECT STREET City: LAKELAND, FLORIDA  
UTM: East \_\_\_\_\_ North \_\_\_\_\_  
Latitude: 28 ° 02 ' 45 "N. Longitude: 81 ° 57 ' 45 "W.  
Appl. Name and Title: FLORIDA TILE INDUSTRIES, INC., A DIVISION OF SIKES CORP.  
Appl. Address: 608 PROSPECT ST., P.O. BOX 447, LAKELAND, FLA. 33802

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

SIKES CORPORATION

I am the undersigned owner or authorized representative of\*

I certify that the statements made in this application for a AIR POLLUTION OPERATION permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department and revisions thereof. I also understand that a permit, if granted by the Department, will be nontransferable and I will promptly notify the Department upon sale or legal transfer of the permitted establishment.

LEON R. SIKES, JR., PRESIDENT

Name of Person Signing (please Type or Print)

B. J. Hardy Eng. Manager  
Signature of the Owner or Authorized Representative and Title

Date: March 9-79 Telephone No.: 813-683-5431

\* Attach a letter of authorization.

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgement, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the Department. It is also agreed that the undersigned will furnish the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signature: Jerry W. Hardin  
Name: JERRY W. HARDIN, P.E.  
(Please Type)

Company Name: HARDIN ENGINEERING  
Florida Registration Number: 20,331

Mailing Address: 3237 CLEVELAND HEIGHTS BLVD.  
LAKELAND, FLORIDA 33803

Telephone No.: (813) 646-0496  
Date: MARCH 5, 1979

(Affix Seal)

# Best Available Copy

## SECTION II: GENERAL PROJECT INFORMATION

- A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

EXISTING SIMPSON MIXERS (3) HAVE INDIVIDUAL MICRO-PULSAIR COLLECTORS. BLENDED BATCHES ARE PNEUMATICALLY CONVEYED TO MIXERS. COLLECTORS ALLOW ESCAPE OF THE CONVEYING AIR AND COLLECT ALL DUST PARTICLES. DUST COLLECTED IS IMMEDIATELY DEPOSITED INTO THE MIXER FOR PROCESSING.

EXISTING MIXER FACILITIES ARE IN COMPLIANCE.

- B. Schedule of Project Covered in this Application (Construction Permit Application Only).

Start of Construction: \_\_\_\_\_ Completion of Construction: \_\_\_\_\_

- C. Costs of Construction. (Note: show breakdown of estimated costs only for individual components/units of the project serving pollution control purpose. Information on actual costs shall be furnished with the application for operation permit.)

MICRO PULSAIR DUST COLLECTOR 16S-6-30  
UNIT COSTS = \$3,500.00 (CURRENT PRICE NOT INSTALLED)

- D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

A053-2155 ISSUED (DATE UNKNOWN) EXPIRES JANUARY 1, 1974

A053-2508 ISSUED FEBRUARY 15, 1974 EXPIRES FEBRUARY 15, 1979

- E. Is the emission point considered to be a New\* or Existing\* source, as defined in Chapter 17-2.02(5) & (6), Florida Administrative Code?  
 New  Existing

- F. Is this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 221-2, Florida Administrative Code?  Yes  No

- G. Normal Equipment Operating Time: hrs/day: 16 ; days/wk: \_\_\_\_\_ ; wks/yr: \_\_\_\_\_ ; if seasonal, describe: \_\_\_\_\_

DEPENDS ON PRODUCT DEMAND

H. Since any source which came into existence, began operation or construction, or received a permit for the latter on or after January 18, 1972

I. Is any source which came into existence, operating or under construction (or with a permit to construct) prior to January 18, 1972

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES

(other than incinerators)

A. Raw Materials and Chemicals Used in Your Process:

Description	Utilization Rate lbs./hr.	Relate to Flow Diagram
TALC, BALL CLAY,	263,000#/DAY	MIXERS #1,2,3,
WOLLASTONITE, WHITING,		
SPB-11 SECRET BLEND		

B. Process Rate:

- 1) Total Process Input Rate (lbs./hr.): 25,925
- 2) Product Weight (lbs/hr): 60 -65 #/CU.FT.
- (8.5 BATCHES/HR. @3,050 #)

C. Airborne Contaminants Discharged:

Name of Contaminant	Actual Discharge*		Allowed Discharge Rate Per Ch. 17-2, F.A.C.**	Allowable Discharge*** (lbs./hr.)	Relate to Flow Diagram
	lbs./hr.	T/yr.			
SPB-11 SECRET BLEND OF CLAYS	NOT PERCEPTIBLE TO EYE		2.23#/TON	28.85#/HR.	MIXERS, #1,2,3, (RATE)
N.Y. TALC, BALL CLAY, WOLLASTONITE WHITING,			(.7433#/TON PER MIXER)	(12.96T/HR)	

D. Control Devices:

Name and Type (Model and Serial No.)	Contaminant	Efficiency†	Range of Particles Size Collected (in microns)	Basis for Efficiency††
MICRO PULSAIR DUST COLLECTOR		99.9%	½ MICRON+	MIXERS # 1,2,3, COLLECTORS OPERATE 16 HRS./DAY 1928 CFM @½" S.P.

\*Estimate only if this is an application to construct.

\*\*Specify units in accordance with emission standards prescribed within Section 17-2.04, F.A.C. (e.g. Section 17-2.04(6)(e)1.a. specifies that new fossil fuel steam generators are allowed to emit particulate matter at a rate of 0.1 lbs. per million BTU heat input computed as a maximum 2-hour average.)

\*\*\*Using above example for a source with 260 million BTU per hour heat input:  $\frac{0.1 \text{ lbs.} \times 260 \text{ MMBTU}}{\text{MMBTU hr.}} = 26 \text{ lbs./hr.}$

†See Supplemental Requirements, page 5, number 2.

††Indicate whether the efficiency value is based upon performance testing of the device or design data.

E. Fuels:

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg./hr.	Max./hr.	
N.A.			

\*Units: Natural Gas - MMCF/hr.; Fuel Oils, Coal - lbs./hr.

Fuel Analysis:

Percent Sulfur: \_\_\_\_\_ Percent Ash: \_\_\_\_\_  
 Density: \_\_\_\_\_ lb./gal.  
 Heat Capacity: \_\_\_\_\_ BTU/lb. \_\_\_\_\_ BTU/gal.  
 Other Fuel Contaminants: \_\_\_\_\_

F. If applicable, indicate the percent of fuel used for space heating: \_\_\_\_\_ Annual Average: \_\_\_\_\_ Maximum: \_\_\_\_\_

G. Indicate liquid or solid wastes generated and method of disposal:

NO WASTES GENERATED. ALL COLLECTED MATERIALS ARE IMMEDIATELY PLACED INTO PROCESS.

H. Emission Stack Geometry and Flow Characteristics (provide data for each stack):

Stack Height: (COLLECTOR BLOWER DISCHARGE) 28' ABOVE GROUND ft.  
 Gas Flow Rate: 1928 CFM @ 1/2" S.P. ACFM Stack Diameter: \_\_\_\_\_  
 Gas Exit Temperature: 85-90° °F  
 Water Vapor Content: LESS THAN 1.5% %  
DISCHARGE = .307 SQ. FT. AREA 7-1/2" D.

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type O (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Lbs./Hr. Incinerated							

Description of Waste: \_\_\_\_\_  
 Total Weight Incinerated (lbs./hr.): \_\_\_\_\_ Design Capacity (lbs./hr.): \_\_\_\_\_  
 Approximate Number of Hours of Operation per Day: \_\_\_\_\_, days/week: \_\_\_\_\_  
 Manufacturer: \_\_\_\_\_  
 Date Constructed: \_\_\_\_\_ Model No.: \_\_\_\_\_

P167682418

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

SENT TO		
William R. Boakes		
STREET AND NO. P. O. Box 447		
P.O., STATE AND ZIP CODE Lakeland, FL 33802		
POSTAGE	\$	
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	c
	SPECIAL DELIVERY	c
	RESTRICTED DELIVERY	c
	OPTIONAL SERVICES	
	RETURN RECEIPT SERVICE	
	SHOW TO WHOM AND DATE DELIVERED	c
	SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	c
	SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	c
	SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	c
TOTAL POSTAGE AND FEES	\$	
POSTMARK OR DATE		
8/19/82		

PS Form 3800, Apr. 1976

PS Form 3811, Jan. 1978

● SENDER: Complete items 1, 2, and 3.  
Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)  
 Show to whom and date delivered.....  
 Show to whom, date and address of delivery.....  
 RESTRICTED DELIVERY  
 Show to whom and date delivered.....  
 RESTRICTED DELIVERY.  
 Show to whom, date, and address of delivery.\$.....  
 (CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:  
 William R. Boakes  
 P. O. Box 447  
 Lakeland, FL 33802

3. ARTICLE DESCRIPTION:  
 REGISTERED NO. | CERTIFIED NO. | INSURED NO.  
 | 7682418 |  
 (Always obtain signature of addressee or agent)

I have received the article described above.  
 SIGNATURE  Addressee  Authorized agent  
*DB:cop*

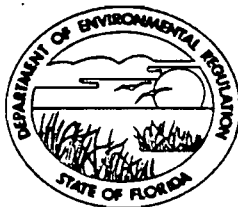
4. DATE OF DELIVERY  
 AUG 23 1982  
 LAKELAND, FL 33802  
 POSTMARK

5. ADDRESS (Complete only if addressed)

6. UNABLE TO DELIVER BECAUSE: | CLERK'S INITIALS

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

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



BOB GRAHAM  
GOVERNOR

Victoria J. Tschinkel  
SECRETARY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

August 18, 1982

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

William R. Boakes, Vice President  
Sikes Corporation  
Florida Tile Division  
Post Office Box 447  
Lakeland, Florida 33802

Dear Mr. Boakes:

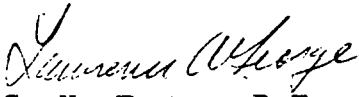
AC 53-55781

AC 53-55782

Enclosed is Permit Numbers AC 53-55784, dated August 17, 1982  
to Sikes Corporation  
issued pursuant to Section 403, Florida Statutes.

Acceptance of the permit constitutes notice and agreement that the Department will periodically review this permit for compliance, including site inspections where applicable, and may initiate enforcement actions for violation of the conditions and requirements thereof.

Sincerely,

  
for C. H. Fancy, P.E.  
Deputy Chief  
Bureau of Air Quality  
Management

CHF/pa

Attachments

cc: Jerry W. Hardin, Hardin Engineering  
Dan Williams, FDER Southwest District



State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For Routing To District Offices And/Or To Other Than The Addressee		
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
From: _____	Date: _____	
Reply Optional [ ]	Reply Required [ ]	Info. Only [ ]
Date Due: _____	Date Due: _____	

RECEIVED

AUG 16 1982

Office of the Secretary

TO: Victoria J. Tschinkel  
FROM: Clair Fancy *CF*  
DATE: August 16, 1982  
SUBJ: Approval and Signature of Attached Air  
Construction Permit Described Below

Attached please find one Air Construction Permit for which the applicant is Sikes Corporation. Day 90, after which the permit would be issued by default, is August 25, 1982.

The Bureau recommends your approval and signature.

CF/pa

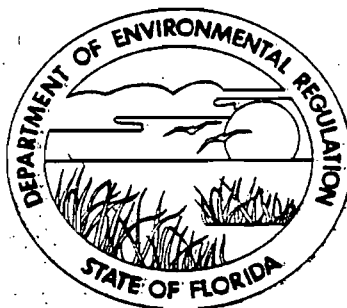
Attachment

Sikes Corporation  
Florida Tile Division  
Polk County

The construction applications have been reviewed by the Department. Public notice of the Department's intent to issue was published in The Ledger (Lakeland) on July 8, 1982. The preliminary determinations and technical evaluations were available for public inspection at the DER's Southwest District and the Bureau of Air Quality Management.

No comments or additional inputs were received nor were any modifications made.

It is recommended that the construction permits be issued as drafted.



STATE OF FLORIDA  
DEPARTMENT OF  
ENVIRONMENTAL REGULATION

CONSTRUCTION  
PERMIT

NO. AC 53-55781

SIKES CORPORATION  
P.O. Box 447  
LAKELAND, FLORIDA 33802

DATE OF ISSUANCE

AUGUST 12, 1982

DATE OF EXPIRATION:

JANUARY 31, 1983

Terry Cole  
VICTORIA J. TSCHINKEL  
SECRETARY

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM  
GOVERNOR

VICTORIA J. TSCHINKEL  
SECRETARY

APPLICANT: Sikes Corporation  
P. O. Box 447  
Lakeland, Florida 33802

PERMIT/CERTIFICATION  
NO. AC 53-55781

COUNTY: Polk

PROJECT: Tile Dryer

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

For the construction of a tile dryer at the company's existing facility located at 608 Prospect Street, Lakeland, Polk County, Florida. The UTM coordinates are Zone 17-405.39 km East and 3102.48 km North.

Construction shall be in accordance with the permit application and plans, documents, and drawings except as otherwise noted on pages 3 and 4 of the "Specific Conditions".

Attachment is as follows:

1. Application to Construct Air Pollution Sources, DER FORM 17-1.122(16).

PERMIT NO.: AC 53-55781  
APPLICANT: Sikes Corporation

**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 Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court 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 indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.
3. 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 non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue; and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. 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.
4. As provided in subsection 403.087(6), 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.
5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.
6. 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 Section 403.111, F.S.
7. In the case of an operation permit, 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.
8. 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, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.
9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.
10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.
11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.
12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation 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.
13. This permit also constitutes:
  - Determination of Best Available Control Technology (BACT)
  - Determination of Prevention of Significant Deterioration (PSD)
  - Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

PERMIT NO.: AC 53-55781  
APPLICANT: Sikes Corporation

SPECIFIC CONDITIONS:

1. Maximum operation time shall not exceed 810 hours per year.
2. Maximum heat input shall not exceed  $10 \times 10^6$  Btu per hour (MMBtu/hr).
3. Natural gas is the only fuel to be fired in this source. Maximum consumption shall not exceed  $960 \text{ ft}^3/\text{hr}$ . Any other fuel type to be fired will require a permit change in accordance with Chapter 17-2, FAC.
4. No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere any air pollutants from new, or existing sources, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart the opacity of which is equal to or greater than 20 percent.
5. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any source whatsoever, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrially related activities such as loading, unloading, storing or handling, without taking reasonable precautions to prevent such emissions. Reasonable precautions may include, but shall not be limited to paving and maintenance of roads, parking areas and yards; application of asphalt, water, and/or other dust suppressants to unpaved roads, open stock piles and similar sources; landscaping or planting of vegetation; use of hoods fans, filters, and similar equipment to contain, capture and/or vent particulate matter; and/or enclosure or covering of conveyor systems.
6. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
7. The applicant shall report any delays in construction/ installation and completion of this proposed source to the Department's Southwest District Office.

PERMIT NO.: AC 53-55781  
APPLICANT: Sikes Corporation

8. Before this construction permit expires, the source shall be tested for visible emissions using DER Method 9. The Department's Southwest District Office shall be notified 30 days in advance of the compliance tests. The compliance tests shall be conducted at 90-100% of the maximum total process input rate and natural gas consumption of 17,000 lbs/hr of ceramic tiles and 960 ft<sup>3</sup>/hr, respectively. Copies of the compliance tests shall be submitted to the Department's Southwest District Office within 15 days after the tests.
  
9. The applicant will demonstrate compliance with the conditions of this construction permit and submit a complete application for an operating permit to the Department's Southwest District Office prior to 90 days before the expiration date of this permit. The applicant may continue to operate in compliance with all terms of this construction permit until the expiration date or until issuance of an operating permit.

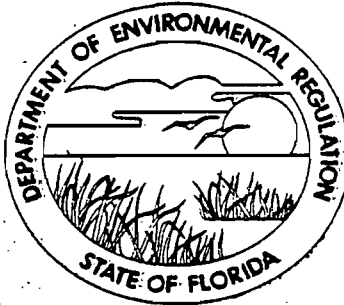
Expiration Date: January 31, 1983

Issued this 17 day of Aug., 1982

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

\_\_\_\_\_ Pages Attached.

Terry Cole  
Signature



STATE OF FLORIDA  
DEPARTMENT OF  
ENVIRONMENTAL REGULATION

CONSTRUCTION  
PERMIT

NO. AC 53-55782

SIKES CORPORATION  
P.O. Box 447  
LAKELAND, FLORIDA 33802

DATE OF ISSUANCE

AUGUST 12, 1982

DATE OF EXPIRATION:

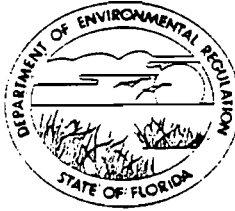
JANUARY 31, 1983

*Terry Cole*  
VICTORIA J. TSCHINKEL  
SECRETARY



STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM  
GOVERNOR  
VICTORIA J. TSCHINKEL  
SECRETARY

APPLICANT: Sikes Corporation  
P. O. Box 447  
Lakeland, Florida 33802

PERMIT/CERTIFICATION  
NO. AC 53-55782

COUNTY: Polk

PROJECT: Kiln

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

For the construction of a kiln at the company's existing  
facility located at 608 Prospect Street, Lakeland, Polk County,  
Florida. The UTM coordinates are Zone 17-405.39 km East and  
3102.48 km North.

Construction shall be in accordance with the permit application  
and plans, documents, and drawings except as otherwise noted on  
pages 3 and 4 of the "Specific Conditions".

Attachment is as follows:

1. Application to Construct Air Pollution Sources, DER FORM  
17-1.122(16).

PERMIT NO.: AC 53-55782  
APPLICANT: Sikes Corporation

**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 Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court 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 indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.
3. 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 non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. 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.
4. As provided in subsection 403.087(6), 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.
5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.
6. 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 Section 403.111, F.S.
7. In the case of an operation permit, 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.
8. 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, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.
9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.
10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.
11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.
12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation 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.
13. This permit also constitutes:
  - Determination of Best Available Control Technology (BACT)
  - Determination of Prevention of Significant Deterioration (PSD)
  - Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

PERMIT NO.: AC 53-55782  
APPLICANT: Sikes Corporation

SPECIFIC CONDITIONS:

1. Maximum operation time shall not exceed 810 hours per year.
2. Maximum heat input shall not exceed  $30 \times 10^6$  Btu per hour (MMBtu/hr).
3. Natural gas is the only fuel to be fired in this source. Maximum consumption shall not exceed 2825 ft<sup>3</sup>/hr. Any other fuel type to be fired will require a permit change in accordance with Chapter 17-2, FAC.
4. No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere any air pollutants from new, or existing sources, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart the opacity of which is equal to or greater than 20 percent.
5. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any source whatsoever, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrially related activities such as loading, unloading, storing or handling, without taking reasonable precautions to prevent such emissions. Reasonable precautions may include, but shall not be limited to paving and maintenance of roads, parking area and yards; application of asphalt, water, and/or other dust suppressants to unpaved roads, open stock piles and similar sources; landscaping or planting of vegetation; use of hood fans, filters, and similar equipment to contain, capture and/or vent particulate matter; and/or enclosure or covering of conveyor systems.
6. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
7. The applicant shall report any delays in construction/ installation and completion of this proposed source to the Department's Southwest District Office.

PERMIT NO.: AC 53-55782  
APPLICANT: Sikes Corporation

8. Before this construction permit expires, the source shall be tested for visible emissions using DER Method 9. The Department's Southwest District Office shall be notified 30 days in advance of the compliance tests. The compliance tests shall be conducted at 90-100% of the maximum total process input rate and natural gas consumption of 17,000 lbs/hr of pressed and green tiles and 2825 ft<sup>3</sup>/hr, respectively. Copies of the compliance tests shall be submitted to the Department's Southwest District Office within 15 days after the tests.
9. The applicant will demonstrate compliance with the conditions of this construction permit and submit a complete application for an operating permit to the Department's Southwest District Office prior to 90 days before the expiration date of this permit. The applicant may continue to operate in compliance with all terms of this construction permit until the expiration date or until issuance of an operating permit.

Expiration Date: January 31, 1983

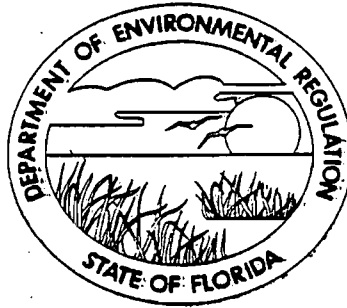
Issued this 17 day of Aug, 1982.

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

\_\_\_\_\_ Pages Attached.

Terry Cole

Signature



**STATE OF FLORIDA  
DEPARTMENT OF  
ENVIRONMENTAL REGULATION**

**CONSTRUCTION  
PERMIT**

**NO.** AC 53-55784

SIKES CORPORATION  
P.O. Box 447  
LAKELAND, FLORIDA 33802

**DATE OF ISSUANCE**

AUGUST 12, 1982

**DATE OF EXPIRATION**

JANUARY 31, 1983

Terry Cole

VICTORIA J. TSCHINKEL  
SECRETARY

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING  
2500 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM  
GOVERNOR  
VICTORIA J. TSCHINKEL  
SECRETARY

APPLICANT: Sikes Corporation  
P. O. Box 447  
Lakeland, Florida 33802

PERMIT/CERTIFICATION  
NO. AC 53-55784

COUNTY: Polk

PROJECT: Mikro-Pulsaire  
Baghouse

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

For the installation of a Mikro-Pulsaire baghouse (8000 ACFM gas flow rating) at the company's existing facility located at 608 Prospect Street, Lakeland, Polk County, Florida. The UTM coordinates are Zone 17-405.39 km East and 3102.48 km North.

Construction shall be in accordance with the permit application and plans, documents, and drawings except as otherwise noted on pages 3 and 4 of the "Specific Conditions".

Attachment is as follows:

1. Application to Construct Air Pollution Sources, DER FORM 17-1.122(16).

PERMIT NO.: AC 53-55784  
APPLICANT: Sikes Corporation

**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 Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court 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 indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.
3. 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 non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. 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.
4. As provided in subsection 403.087(6), 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.
5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.
6. 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 Section 403.111, F.S.
7. In the case of an operation permit, 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.
8. 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, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.
9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.
10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.
11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.
12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation 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.
13. This permit also constitutes:
  - Determination of Best Available Control Technology (BACT)
  - Determination of Prevention of Significant Deterioration (PSD)
  - Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

PERMIT NO.: AC 53-55784  
APPLICANT: Sikes Corporation

SPECIFIC CONDITIONS:

1. Maximum operation time shall not exceed 810 hours per year.
2. Maximum utilization and total process input rate shall not exceed 17,000 lbs/hr of tile body.
3. Maximum particulate matter allowable emissions rate shall not exceed 13.53 lbs/hr and 5.48 TPY.
4. No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere any air pollutants from new, or existing sources, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart the opacity of which is equal to or greater than 20 percent.
5. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any source whatsoever, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrially related activities such as loading, unloading, storing or handling, without taking reasonable precautions to prevent such emissions. Reasonable precautions may include, but shall not be limited to paving and maintenance of roads, parking areas and yards; application of asphalt, water, and/or other dust suppressants to unpaved roads, open stock piles and similar sources; landscaping or planting of vegetation; use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter; and/or enclosure or covering of conveyor systems.
6. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
7. The applicant shall report any delays in construction/ installation and completion of this proposed source to the Department's Southwest District Office.
8. Before this construction permit expires, the source shall be tested for particulate matter and visible emissions using DER Methods 5 and 9 respectively. The Department's Southwest District Office shall be notified 30 days in advance of the compliance tests. The compliance tests shall be conducted at 90-100% of the maximum utilization and total process input rate of 17,000 lbs/hr of tile body.



PERMIT NO.: AC 53-55784  
APPLICANT: Sikes Corporation

Copies of the compliance tests shall be submitted to the Department's Southwest District Office within 15 days after the tests.

9. Stack sampling facilities shall be in accordance with 17-2.700, FAC.
10. The applicant will demonstrate compliance with the conditions of this construction permit and submit a complete application for an operating permit to the Department's Southwest District Office prior to 90 days before the expiration date of this permit. The applicant may continue to operate in compliance with all terms of this construction permit until the expiration date or until issuance of an operating permit.

Expiration Date: January 31, 1983

Issued this 17 day of Aug, 1982.

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

\_\_\_\_\_ Pages Attached.

Terry Cole

Signature

PAGE 4 OF 4



July 20, 1982

Claire H. Fancy  
Department of Environmental Regulation  
Twin Towers Office Building  
2600 Blairstone Road  
Tallahassee, Florida 32301-8241

DER  
JUL 23 1982  
BAQM

Dear Mr. Fancy:

The original Affidavit of Publication from the Lakeland Ledger, verifying the publication of the Proposed Agency Action in relation to pending issuance of permits to Florida Tile, and as required by the D.E.R. is attached.

Sincerely,

*Bill J. Gandy*  
Bill J. Gandy  
Manager  
Engineering Services

# AFFIDAVIT OF PUBLICATION

## THE LEDGER

Lakeland, Polk County, Florida

Case No .....

STATE OF FLORIDA )  
COUNTY OF POLK )

SN.

Before the undersigned authority personally appeared Walter Garris, who on oath says that he is Controller of The Ledger, a daily newspaper published at Lakeland in Polk County, Florida; that the attached copy of advertisement, being a .....

### Notice

in the matter of .....

### Proposed Agency Action

in the .....

Court, was published in said newspaper in the issues of .....

.. July 8; 1982 .....

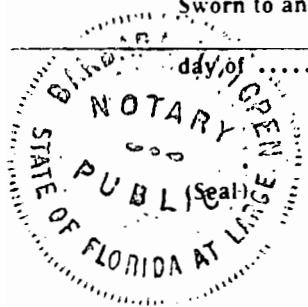
Affiant further says that said The Ledger is a newspaper published at Lakeland, in said Polk County, Florida, and that the said newspaper has heretofore been continuously published in said Polk County, Florida, daily, and has been entered as second class matter at the postoffice in Lakeland, in said Polk County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

Signed *Walter Garris*  
Controller

15th

Sworn to and subscribed before me this .....

..... day of July ..... A.D. 19 82



*Barbara Higgins*  
Notary Public

My Commission Expires NOTARY PUBLIC, STATE OF FLORIDA AT LARGE  
MY COMMISSION EXPIRES NOV. 11, 1982  
BONDED THRU-GENERAL INS. UNDERWRITERS

### NOTICE OF PROPOSED AGENCY ACTION

The Department of Environmental Regulation gives notice of its intent to issue permits to Florida Tile for the modification to their existing major facility in Lakeland, Polk County, Florida, which includes a tile dryer and kiln fired exclusively on natural gas and a Mikro-Pulsaire baghouse system (to control clay dust generated during tile pressing operations). A determination of Best Available Control Technology (BACT) was not required.

A person who is substantially affected by the Department's proposed permitting decision may request a hearing in accordance with Section 120.57, Florida Statutes, and Chapters 17-1 and 28-5, Florida Administrative Code. The request for hearing must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32301, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period shall constitute a waiver of any right such person may have to request a hearing under Section 120.57, Florida Statutes.

The applications, technical evaluation and departmental intent are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the following locations:

DER Bureau of Air Quality Management  
2600 Blair Stone Road  
Tallahassee, Florida 32301

DER Southwest District  
7601 Highway 301 North  
Tampa, Florida 33610

Comments on this action shall be submitted in writing to Bill Thomas of the Tallahassee office within thirty (30) days of this notice.

R273 - 7-8, 1982



July 6, 1982

Claire H. Fancy  
Department of Environmental Regulation  
Twin Towers Office Building  
2600 Blairstone Road  
Tallahassee, Florida 32301-8241

DER  
JUL 06 1982  
BAQM

Dear Mr. Fancy:

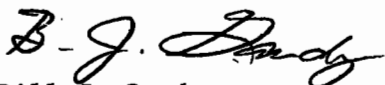
We have received your letter dated June 25, 1982 referring to the Notice of Proposed Agency Action to be published in the Lakeland Ledger.

Please be informed that this notice is scheduled to appear in the Lakeland Ledger July 8, 1982.

Also in all future communications Florida Tile should be referred to as "Sikes Corporation", or Florida Tile Division of Sikes Corporation.

We have also notified Mr. Jerry Hardin of Hardin Engineering concerning the proper name for future communications.

Sincerely,

  
Bill J. Gandy  
Manager Engineering Services

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



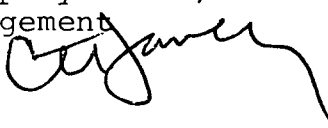
BOB GRAHAM  
GOVERNOR

VICTORIA J. TSCHINKEL  
SECRETARY

MEMORANDUM

TO: William R. Boakes, Florida Tile Industries  
Jerry W. Hardin, Hardin Engineering  
Dan Williams, FDER Southwest District

FROM: C. H. Fancy, Deputy Chief, Bureau of Air  
Quality Management

DATE: June 25, 1982 

SUBJECT: Preliminary Determination - Florida Tile  
Industries (AC 53-55781, AC 53-55782, AC 53-55784)

Attached is one copy of the applications, Technical Evaluation and Preliminary Determination, and proposed permits to Florida Tile Industries to modify its existing facility in Lakeland, Polk County, Florida. The public notice will appear in the Lakeland Ledger in the near future.

Please submit any comments which you wish to have considered concerning this action, in writing, to Bill Thomas of the Bureau of Air Quality Management.

CHF:ras

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

June 25, 1982

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

William R. Boakes, Vice President  
Florida Tile Industries  
P.O. Box 447  
Lakeland, Florida 33802

Dear Mr. Boakes:

Pursuant to Section 403.815, Florida Statutes, and Florida Administrative Code Rule 17-1.62, you are required to publish (at your own expense) the attached notice. This notice should be published, one time only, in the legal ad section of the Lakeland Ledger, as soon as possible and no later than July 9, 1982.

The Department, in accordance with Rule 17-1.62, is required to have proof that the public notice was given. Therefore, please have the newspaper prepare an affidavit of publication to submit to the Department.

Sincerely,

Clair H. Fancy, P.E.  
Deputy Chief  
Bureau of Air Quality  
Management

CHF:PA:ras

P167682406

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

SENT TO		
William R. Boakes, V.P.		
STREET AND NO.		
P.O. Box 447		
P.O., STATE AND ZIP CODE		
Lakeland, FL 33802		
POSTAGE	\$	
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	c
	SPECIAL DELIVERY	c
	RESTRICTED DELIVERY	c
	OPTIONAL SERVICES	
	RETURN RECEIPT SERVICE	
	SHOW TO WHOM AND DATE DELIVERED	c
	SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	c
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	c	
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	c	
TOTAL POSTAGE AND FEES	\$	
POSTMARK OR DATE		

PS Form 3800, Apr. 1976

PS Form 3811, Jan. 1979

● SENDER: Complete items 1, 2, and 3. Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)  
 Show to whom and date delivered..... c  
 Show to whom, date and address of delivery..... c  
 RESTRICTED DELIVERY  
 Show to whom and date delivered..... c  
 RESTRICTED DELIVERY.  
 Show to whom, date, and address of delivery.\$ \_\_\_\_  
 (CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:  
 William R. Boakes, V. Pres.  
 Florida Tile Industries  
 P. O. Box 447  
 Lakeland, Florida 33802

3. ARTICLE DESCRIPTION:  

REGISTERED NO.	CERTIFIED NO.	INSURED NO.
	7682406	

 (Always obtain signature of addressee or agent)

I have received the article described above.  
 SIGNATURE  Addressee  Authorized agent

4. DATE OF DELIVERY  
 JUL 2 1982

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE:

POSTMARK  
 LAKELAND, FL. MAIN OFFICE  
 JUL 2 1982  
 CLERK'S INITIALS

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

NOTICE OF PROPOSED AGENCY ACTION

The Department of Environmental Regulation gives notice of its intent to issue permits to Florida Tile Industries, Inc. for the modification to their existing major facility in Lakeland, Polk County, Florida, which includes a tile dryer and kiln fired exclusively on natural gas and a Mikro-Pulsaire baghouse system (to control clay dust generated during tile pressing operations). A determination of Best Available Control Technology (BACT) was not required.

A person who is substantially affected by the Department's proposed permitting decision may request a hearing in accordance with Section 120.57, Florida Statutes, and Chapters 17-1 and 28-5, Florida Administrative Code. The request for hearing must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32301, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period shall constitute a waiver of any right such person may have to request a hearing under Section 120.57, Florida Statutes.

The applications, technical evaluation and departmental intent are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the following locations:

DER Bureau of Air Quality Management  
2600 Blair Stone Road  
Tallahassee, Florida 32301

DER Southwest District  
7601 Highway 301 North  
Tampa, Florida 33610

Comments on this action shall be submitted in writing to Bill Thomas of the Tallahassee office within thirty (30) days of this notice.



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.

*Original as Noticed  
Revised & Issued  
(name only)*

Technical Evaluation  
and  
Preliminary Determination

Florida Tile Industries, Inc.  
Lakeland, Florida

Applications Number:

AC 53-55781  
AC 53-55782  
AC 53-55784

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

Florida Tile Industries, Inc.

I. PROJECT DESCRIPTION

A. Applicant

Florida Tile Industries, Inc.  
P. O. Box 447  
Lakeland, Florida 33802

B. Project and Location

The applicant proposes to modify its existing facility by the construction/installation of a tile dryer, a kiln, and a Mikro-Pulsaire baghouse system. The tile dryer and kiln will fire natural gas exclusively.

The existing facility is located at 608 Prospect Street, Lakeland, Polk County, Florida. The UTM coordinates are Zone 17-405.39 km East and 3102.48 km North.

C. Process and Controls

The tile dryer, firing natural gas, will provide conventional heating of ceramic tiles. Drying of tiles prior to actual firing is carried out to avoid deformation of tiles during rapid heating. The kiln, firing natural gas, will provide conventional heating to fire to finished product pressed and dried green tile. The Mikro-Pulsaire baghouse system will consist of a dust collection and controlling baghouse for the control of clay dust generated during tile pressing operations.

There is no associated control equipment for the tile dryer and kiln because the majority of the contaminants emitted will be the combustion products from firing natural gas and considered negligible.

II. RULE APPLICABILITY

For construction or modification of air pollutant emitting facilities in those parts of the state in which the state ambient air quality standards are being met, a review for prevention of significant deterioration (PSD) applicability is required according to Chapter 17-2.500, Florida Administrative Code (FAC). This type of operation is not on the list of 28, Major Facility Categories, according to Chapter 17-2, Table 500-1, FAC, and therefore, would require 250 tons per year (TPY) or greater emissions of a pollutant in order to be classified as a major emitting facility.

In establishing the historic facility emissions, PSD review allows the use of established actual emissions or the allowable emissions, if federally enforceable. On February 26, 1982, Florida Tile Industries, Inc. submitted to the DER's

Southwest District Office the "Annual Operations Report Form For Air Emissions Sources" (DER FORM 17-1.122(44) Page 1 of 1) for the year 1981, which documented the facility's annual actual emissions, by source. Since the existing operating permits do not contain federally enforceable allowable emissions limits, the Department shall use the referenced document to establish the facility's historical actual emissions. Therefore, the following table was developed from and will reflect these annual actual emissions, by source, to establish the facility's historical actual emissions.

Existing Facility's Actual Emissions

Source	Permit Number	Pollutant (TPY)				
		PM	SO <sub>2</sub>	NO <sub>2</sub>	HC	CO
Tile Kilns(15)	AC 53-18302	3.26	0.105	36.34	0.544	3.09
Tile Dryers	-18301	0.16	0.005	1.76	0.026	0.15
Batching System Baghouse	-18303	39.45				
Tile Glazing	-18298	105.24				
Tile Pressing	-18299	39.45				
Storage Silos(3)	-18300	35.1				
Simpson Mixers(3)	-18297	39.45				
Total		262.11	0.11	38.1	0.57	3.24

Based on the table, the existing facility is a major emitting facility for the pollutant particulate matter (PM). Therefore, further PSD review shall be according to Chapter 17-2.500(2)(d) 4.a.(ii), FAC, Modifications to Major Facilities. Before a PSD determination will be required, at least one of the pollutants emitted must equal or exceed the net significant emission level listed in Chapter 17-2, Table 500-2, FAC, Regulated Air Pollutants-Significant Emission Rates.

The following table will account for the net significant emissions increases (current and projected) at the existing major facility since the established baseline date of February 24, 1978 (PSD-FL-008). Only one construction permit (AC 53-48977) has been issued to this company since that date and it contained an allowable emission rate for PM, which is a federally enforceable permit condition. Therefore, this rate and the projected allowable emission rates for the proposed modifications shall be used to establish an annual emissions inventory for PSD review applicability. Since the tile dryer and kiln will be permitted, as requested, to fire natural gas exclusively, the pollutants emitted from the combustion of this fuel are considered to be negligible. Therefore, the significant net emissions inventory will not include the proposed emissions from these sources.

Facility Net Significant Emissions Inventory

Source	Permit Number	Pollutant				
		PM #/hr      TPY	SO <sub>2</sub> #/hr      TPY	NO <sub>x</sub> #/hr      TPY	HC #/hr      TPY	CO #/hr      TPY
Mill Room Dust Collector <sup>1</sup>	AC-53-48977	3.83      16.78				
Tile Dryer <sup>2</sup>	-55781	N/A <sup>3</sup>	N/A	N/A	N/A	N/A
Kiln <sup>2</sup>	-55782	N/A	N/A	N/A	N/A	N/A
Mikro-Pulsaire Baghouse <sup>1</sup>	-55784	13.53      5.48				
	Total		22.26	N/A	N/A	N/A

<sup>1</sup>Based on Process Weight.

<sup>2</sup>Source firing natural gas exclusively-combustion pollutants considered negligible.

<sup>3</sup>Not Applicable.

Because there are not any pollutant emissions totals that equal or exceed the net significant emissions levels, a PSD determination will not be required for the proposed modifications according to Chapter 17-2.500(2)(d)4.a.(ii), FAC. However, any future net emissions increase(s) that will total 2.74 TPY for PM, both a Federal and State PSD determination shall be required.

Since there are not any specific emission limiting standards for this type of facility and proposed modifications contained in Chapter 17-2, FAC, the proposed modifications will be permitted in accordance with Chapters 17-2.520, 17-2.610, and 17-2.620, FAC.

### III. SUMMARY OF EMISSIONS AND AIR QUALITY ANALYSIS

#### A. Emission Limitations

The regulated pollutant emissions from the proposed sources are particulate matter (PM) and visible emissions (VE) in accordance with Chapters 17-2.520, 17-2.610, and 17-2.620, FAC. The proposed sources' allowable emissions limits will be the same as the values listed in the table labeled "Facility Net Significant Emissions Inventory" in the previous section, plus the requirement of VE limits (listed below).

<u>Source</u>	<u>Pollutant</u>	<u>Allowable Emissions</u>
Tile Dryer	VE	<20% opacity
Kiln	VE	<20% opacity
Mikro-Pulsaire Baghouse	VE	<20% opacity

So long as the tile dryer and kiln fire natural gas exclusively, the sources shall be limited to a VE compliance test. All other pollutant emissions are considered negligible and will not require compliance tests. Any change in the fuel type shall require a permit modification request to the Department by application in accordance with Chapter 17-2, FAC.

The permitted emissions are in compliance with all applicable requirements of Chapter 17-2, FAC.

#### B. Air Quality Impacts

From the applications technical review, it has been determined that the construction of the proposed sources will not lead to any violation of Florida's ambient air quality standards.

#### IV. CONCLUSIONS

The permitted emissions from the proposed sources will not contribute to any violation of Florida's ambient air quality standards.

The General and Specific Conditions listed in the proposed permits (attached) will assure compliance with all applicable requirements of Chapter 17-2, FAC.



STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM  
GOVERNOR  
VICTORIA J. TSCHINKEL  
SECRETARY

APPLICANT:

Florida Tile Industries, Inc.  
P. O. Box 447  
Lakeland, Florida 33802

PERMIT/CERTIFICATION  
NO. AC 53-55781

COUNTY: Polk

PROJECT: Tile Dryer

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and made a part hereof and specifically described as follows:

For the construction of a tile dryer at the company's existing facility located at 608 Prospect Street, Lakeland, Polk County, Florida. The UTM coordinates are Zone 17-405.39 km East and 3102.48 km North.

Construction shall be in accordance with the permit application and plans, documents, and drawings except as otherwise noted on pages 3 and 4 of the "Specific Conditions".

Attachment is as follows:

1. Application to Construct Air Pollution Sources, DER FORM 17-1.122(16).

PERMIT NO.: AC 53-55781  
APPLICANT: Florida Tile Industries, Inc.

**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 Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court 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 indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.
3. 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 non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. 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.
4. As provided in subsection 403.087(6), 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.
5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.
6. 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 Section 403.111, F.S.
7. In the case of an operation permit, 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.
8. 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, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.
9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.
10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.
11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.
12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation 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.
13. This permit also constitutes:
  - Determination of Best Available Control Technology (BACT)
  - Determination of Prevention of Significant Deterioration (PSD)
  - Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

PERMIT NO.: AC 53-55781  
APPLICANT: Florida Tile Industries, Inc.

SPECIFIC CONDITIONS:

1. Maximum operation time shall not exceed 810 hours per year.
2. Maximum heat input shall not exceed  $10 \times 10^6$  Btu per hour (MMBtu/hr).
3. Natural gas is the only fuel to be fired in this source. Maximum consumption shall not exceed  $960 \text{ ft}^3/\text{hr}$ . Any other fuel type to be fired will require a permit change in accordance with Chapter 17-2, FAC.
4. No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere any air pollutants from new, or existing sources, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart the opacity of which is equal to or greater than 20 percent.
5. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any source whatsoever, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrially related activities such as loading, unloading, storing or handling, without taking reasonable precautions to prevent such emissions. Reasonable precautions may include, but shall not be limited to paving and maintenance of roads, parking areas and yards; application of asphalt, water, and/or other dust suppressants to unpaved roads, open stock piles and similar sources; landscaping or planting of vegetation; use of hoods fans, filters, and similar equipment to contain, capture and/or vent particulate matter; and/or enclosure or covering of conveyor systems.
6. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
7. The applicant shall report any delays in construction/ installation and completion of this proposed source to the Department's Southwest District Office.

PERMIT NO.: AC 53-55781

APPLICANT: Florida Tile Industries, Inc.

8. Before this construction permit expires, the source shall be tested for visible emissions using DER Method 9. The Department's Southwest District Office shall be notified 30 days in advance of the compliance tests. The compliance tests shall be conducted at 90-100% of the maximum total process input rate and natural gas consumption of 17,000 lbs/hr of ceramic tiles and 960 ft<sup>3</sup>/hr, respectively. Copies of the compliance tests shall be submitted to the Department's Southwest District Office within 15 days after the tests.
  
9. The applicant will demonstrate compliance with the conditions of this construction permit and submit a complete application for an operating permit to the Department's Southwest District Office prior to 90 days before the expiration date of this permit. The applicant may continue to operate in compliance with all terms of this construction permit until the expiration date or until issuance of an operating permit.

Expiration Date: January 31, 1983

Issued this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_\_

\_\_\_\_\_ Pages Attached.

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

\_\_\_\_\_  
Signature

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM  
GOVERNOR  
VICTORIA J. TSCHINKEL  
SECRETARY

APPLICANT:

Florida Tile Industries, Inc.  
P. O. Box 447  
Lakeland, Florida 33802

PERMIT/CERTIFICATION  
NO. AC 53-55782

COUNTY: Polk

PROJECT: Kiln

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and made a part hereof and specifically described as follows:

For the construction of a kiln at the company's existing facility located at 608 Prospect Street, Lakeland, Polk County, Florida. The UTM coordinates are Zone 17-405.39 km East and 3102.48 km North.

Construction shall be in accordance with the permit application and plans, documents, and drawings except as otherwise noted on pages 3 and 4 of the "Specific Conditions".

Attachment is as follows:

1. Application to Construct Air Pollution Sources, DER FORM 17-1.122(16).

PERMIT NO.: AC 53-55782  
APPLICANT: Florida Tile Industries, Inc.

**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 Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court 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 indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.
3. 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 non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. 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.
4. As provided in subsection 403.087(6), 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.
5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.
6. 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 Section 403.111, F.S.
7. In the case of an operation permit, 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.
8. 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, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.
9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.
10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.
11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.
12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation 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.
13. This permit also constitutes:
  - Determination of Best Available Control Technology (BACT)
  - Determination of Prevention of Significant Deterioration (PSD)
  - Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

PERMIT NO.: AC 53-55782  
APPLICANT: Florida Tile Industries, Inc.

SPECIFIC CONDITIONS:

1. Maximum operation time shall not exceed 810 hours per year.
2. Maximum heat input shall not exceed  $30 \times 10^6$  Btu per hour (MMBtu/hr).
3. Natural gas is the only fuel to be fired in this source. Maximum consumption shall not exceed  $2825 \text{ ft}^3/\text{hr}$ . Any other fuel type to be fired will require a permit change in accordance with Chapter 17-2, FAC.
4. No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere any air pollutants from new, or existing sources, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart the opacity of which is equal to or greater than 20 percent.
5. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any source whatsoever, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrially related activities such as loading, unloading, storing or handling, without taking reasonable precautions to prevent such emissions. Reasonable precautions may include, but shall not be limited to paving and maintenance of roads, parking area and yards; application of asphalt, water, and/or other dust suppressants to unpaved roads, open stock piles and similar sources; landscaping or planting of vegetation; use of hood fans, filters, and similar equipment to contain, capture and/or vent particulate matter; and/or enclosure or covering of conveyor systems.
6. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
7. The applicant shall report any delays in construction/ installation and completion of this proposed source to the Department's Southwest District Office.

PERMIT NO.:  
APPLICANT:

Expiration Date: \_\_\_\_\_

Issued this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_\_.

\_\_\_\_\_ Pages Attached.

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

\_\_\_\_\_  
Signature

PAGE \_\_\_\_\_ OF \_\_\_\_\_.



PERMIT NO.: AC 53-55782  
APPLICANT: Florida Tile Industries, Inc.

8. Before this construction permit expires, the source shall be tested for visible emissions using DER Method 9. The Department's Southwest District Office shall be notified 30 days in advance of the compliance tests. The compliance tests shall be conducted at 90-100% of the maximum total process input rate and natural gas consumption of 17,000 lbs/hr of pressed and green tiles and 2825 ft<sup>3</sup>/hr, respectively. Copies of the compliance tests shall be submitted to the Department's Southwest District Office within 15 days after the tests.
9. The applicant will demonstrate compliance with the conditions of this construction permit and submit a complete application for an operating permit to the Department's Southwest District Office prior to 90 days before the expiration date of this permit. The applicant may continue to operate in compliance with all terms of this construction permit until the expiration date or until issuance of an operating permit.

Expiration Date: January 31, 1983

Issued this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_\_.

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

\_\_\_\_\_ Pages Attached.

\_\_\_\_\_  
Signature

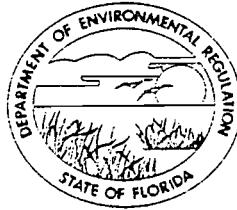
PAGE 4 OF 4

PERMIT NO.:  
APPLICANT:

**SPECIFIC CONDITIONS:**

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING  
2500 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM  
GOVERNOR  
VICTORIA J. TSCHINKEL  
SECRETARY

APPLICANT:

Florida Tile Industries, Inc.  
P. O. Box 447  
Lakeland, Florida 33802

PERMIT/CERTIFICATION  
NO. AC 53-55784

COUNTY: Polk

PROJECT: Mikro-Pulsaire  
Baghouse

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and made a part hereof and specifically described as follows:

For the installation of a Mikro-Pulsaire baghouse (8000 ACFM gas flow rating) at the company's existing facility located at 608 Prospect Street, Lakeland, Polk County, Florida. The UTM coordinates are Zone 17-405.39 km East and 3102.48 km North.

Construction shall be in accordance with the permit application and plans, documents, and drawings except as otherwise noted on pages 3 and 4 of the "Specific Conditions".

Attachment is as follows:

1. Application to Construct Air Pollution Sources, DER FORM 17-1.122(16).

PERMIT NO.: AC 53-55784  
APPLICANT: Florida Tile Industries, Inc.

**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 Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court 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 indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.
3. 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 non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. 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.
4. As provided in subsection 403.087(6), 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.
5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.
6. 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 Section 403.111, F.S.
7. In the case of an operation permit, 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.
8. 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, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.
9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.
10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.
11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.
12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation 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.
13. This permit also constitutes:
  - Determination of Best Available Control Technology (BACT)
  - Determination of Prevention of Significant Deterioration (PSD)
  - Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

PERMIT NO.: AC 53-55784  
APPLICANT: Florida Tile Industries, Inc.

SPECIFIC CONDITIONS:

1. Maximum operation time shall not exceed 810 hours per year.
2. Maximum utilization and total process input rate shall not exceed 17,000 lbs/hr of tile body.
3. Maximum particulate matter allowable emissions rate shall not exceed 13.53 lbs/hr and 5.48 TPY.
4. No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere any air pollutants from new, or existing sources, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart the opacity of which is equal to or greater than 20 percent.
5. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any source whatsoever, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrially related activities such as loading, unloading, storing or handling, without taking reasonable precautions to prevent such emissions. Reasonable precautions may include, but shall not be limited to paving and maintenance of roads, parking areas and yards; application of asphalt, water, and/or other dust suppressants to unpaved roads, open stock piles and similar sources; landscaping or planting of vegetation; use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter; and/or enclosure or covering of conveyor systems.
6. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
7. The applicant shall report any delays in construction/installation and completion of this proposed source to the Department's Southwest District Office.
8. Before this construction permit expires, the source shall be tested for particulate matter and visible emissions using DER Methods 5 and 9 respectively. The Department's Southwest District Office shall be notified 30 days in advance of the compliance tests. The compliance tests shall be conducted at 90-100% of the maximum utilization and total process input rate of 17,000 lbs/hr of tile body.

PERMIT NO.: AC 53-55784  
APPLICANT: Florida Tile Industries, Inc.

Copies of the compliance tests shall be submitted to the Department's Southwest District Office within 15 days after the tests.

9. Stack sampling facilities shall be in accordance with 17-2.700, FAC.
10. The applicant will demonstrate compliance with the conditions of this construction permit and submit a complete application for an operating permit to the Department's Southwest District Office prior to 90 days before the expiration date of this permit. The applicant may continue to operate in compliance with all terms of this construction permit until the expiration date or until issuance of an operating permit.

Expiration Date: January 31, 1983

Issued this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_\_

\_\_\_\_\_ Pages Attached.

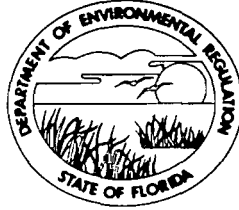
STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

\_\_\_\_\_  
Signature

PAGE 4 OF 4

STATE OF FLORIDA  
**DEPARTMENT OF ENVIRONMENTAL REGULATION**

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



BOB GRAHAM  
GOVERNOR  
VICTORIA J. TSCHINKEL  
SECRETARY

May 14, 1982

William R. Boakes, Vice-President  
Florida Tile Industries, Inc.  
Post Office Box 447  
Lakeland, Florida 33802

Dear Mr. Boakes:

This is to acknowledge receipt and transaction of your  
"Application to Construct an Air Pollution Source" fee check.

The permit processing number assigned are as follows:

AC 53-55781 (R. & D. Tile Dryer  
AC 53-55782 (R. & D. Kiln)  
AC 53-55784 (R. & D. Tile Pressing Operation  
with Baghouse)

If we may be of further assistance, please feel free to  
call at (904)488-1344.

Sincerely,

Patty Adams  
Bureau of Air Quality  
Management

pa

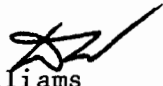
Attachment

State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

## INTEROFFICE MEMORANDUM

For Routing To District Offices And/Or To Other Than The Addressee		
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
From: _____	Date: _____	
Reply Optional [ ]	Reply Required [ ]	Info. Only [ ]
Date Due: _____	Date Due: _____	

TO: Clair Fancy

FROM: Dan A. Williams 

DATE: May 11, 1982

SUBJECT: Polk County AP  
Florida Tile Industries, Inc.  
Three Construction Permit Applications

DER  
MAY 14 1982  
BAQM

Attached are three minor source construction permit applications for Florida Tile Industries, Inc. to construct the following:

- R. & D. Tile Dryer
- R. & D. Kiln
- R. & D. Tile Pressing Operation w/ Baghouse

All three proposed sources are a part of an existing facility with an annual allowable emission calculated to be greater than 246 tons of TSP (see attached).

The majority of the sources are regulated under the process weight table. Potential emission would be greater than the allowable stated because the hours of operation are not specified in the permit. Our estimate of potential is 421.4 TPY. Only one of the eight sources (the mill room dust collector) has the requirement to conduct annual particulate stack tests, therefore, calculations of the actual emissions is not possible.

The only construction permit issued since 1977 is for a mill room dust collector. (Copy of this construction permit is provided for your records).

Should you need any additional information from our files, please give either Jim Estler or me a call at Suncom 552-7270.

DAW/rkt

Enclosures



STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH  
TAMPA, FLORIDA 33610



BOB GRAHAM  
GOVERNOR

~~XXXXXXXXXX~~

SECRETARY  
Vicki Tschinke  
WILLIAM K. HENNESSEY  
DISTRICT MANAGER

Polk County AP

Mr. B.J. Gandy  
Sikes Corp. dba Florida Tile  
608 Prospect Street  
Lakeland, Fla. 33802

Dear Mr. Gandy:

Enclosed is Permit Number AC53-44873, dated August 19, 1981  
to construct the subject air pollution source  
issued pursuant to Section 403, Florida Statutes.

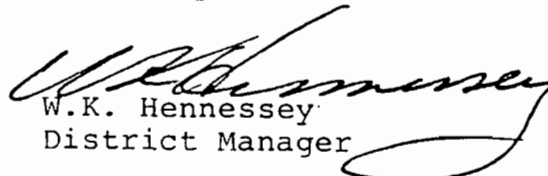
Should you object to this permit, including any and all of the conditions contained therein, you may file an appropriate petition for administrative hearing. This petition must be filed within fourteen (14) days of the receipt of this letter. Further, the petition must conform to the requirements of Section 28-5.201, Florida Administrative Code, (see reverse side of this letter). The petition must be filed with the Office of General Counsel, Department of Environmental Regulation, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32301.

If no petition is filed within the prescribed time, you will be deemed to have accepted this permit and waived your right to request an administrative hearing on this matter.

Acceptance of the permit constitutes notice and agreement that the Department will periodically review this permit for compliance, including site inspections where applicable, and may initiate enforcement action for violation of the conditions and requirements thereof.

Sincerely,

cc: Jerry Hardin  
R.C.

  
W.K. Hennessey  
District Manager

Enclosure

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH  
TAMPA, FLORIDA 33610



BOB GRAHAM  
GOVERNOR

~~JACOB WORN~~  
~~SECRETARY~~

Vicki Tschinkel  
WILLIAM K. HENNESSEY  
DISTRICT MANAGER

APPLICANT:

Sikes Corporation dba Florida Tile  
608 Prospect Street  
Lakeland, Fla. 33802

PERMIT/CERTIFICATION  
NO. AC53-44873

COUNTY: Polk

PROJECT: Mill Room  
Dust Collector

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and made a part hereof and specifically described as follows:

For the construction of a cyclone filter for the removal of heavy materials and a baghouse for the control of fine particulate. These emission controls are for the ball mill operation.

Located at 608 Prospect Street, Lakeland, Fla.

UTM: 17-405.2E and 3102.2N

Replaces Permit NO: N/A NEDS NO: 0009 Point ID: 08

Expires: February 1, 1982

PERMIT NO.: AC53-44873  
APPLICANT: Florida Tile

SPECIFIC CONDITIONS:

1. The construction of this facility shall be completed by 9/1/81. An application to operate this installation shall be submitted to the Department 60 days prior to expiration date of this permit.
2. This construction permit expires on 2/1/82 following an initial period of operation for appropriate testing to determine compliance with the Rules of the Florida Department of Environmental Regulation Commission. (Chapter 17-4.07(7) F.A.C.)
3. All applicable rules of the Department including design discharge limitations specified in the application shall be adhered to. The permit holder may also need to comply with county, municipal, federal, or other state regulations prior to construction. (Chapter 17-4.07(1), F.A.C.)
4. This unit shall be observed for visible emissions (plume density) within 30 days after completion of construction and prior to general operation. (Chapter 17-2.05(1)(a) During the test period this unit must be run within 10% of operating capacity.
5. All reasonable precautions shall be taken to prevent and control generation of fugitive particulate matter. (Chapter 17-2.05(3), F.A.C.)
6. After completion of this installation a stack test for particulate matter to determine emissions of particulates to show compliance shall be made with particulate not to exceed 3.83 lb/hour per process weight table.

Expiration Date: February 1, 1982

Issued this 19<sup>th</sup> day of August, 1981

                     Pages Attached.

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

W.K. Hennessey

Signature

PAGE 4 OF 4

W.K. Hennessey  
District Manager

TECHNICAL EVALUATION  
AND  
PRELIMINARY DETERMINATION

Ewell Industries  
Post Office Box 1705  
Lakeland, Florida  
Polk County  
Concrete Batch Plant

Construction Permit

Application Number

AC53-44149  
AC53-44148

FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION  
Division of Permitting  
Southwest District  
Tampa, FL

August 13, 1981

## I. Description

Ewell Industries has applied for a permit to construct a concrete batch plant located at 326 Recker Highway, Auburndale, Fl, Polk County. The plant consists of piles of aggregate, transfer belts, a mixing hopper, a cement silo and a fly ash silo. Sources of particulate emissions are fugitive dust, cement silo loading, and the flyash silo loading. Controls for these potential emission are frequent wetting of the area, a dust collector for the cement silo, and a dust collector for the flyash silo. The dust collector (baghouses) are historically the best control device for this type of operation removing better than 99% of entrained dust.

## II. Technical Analysis (AP42)

### 1. Cement Silo

Uncontrolled emissions =  $0.2 \text{ lbs/yd}^3$  ( $50 \text{ yd}^3/\text{hr}$ ) (10 hr/day) (5 days/wk) (52 wks/year 2000 lb/ton = 13 tons/year)

Controlled emissions = 25 tons/tanker at 2% fugitives (1-0.999 eff) (1 tanker/hr) x 2000 lbs/ton = 0.39 tons/year emitted.

### 2. Fly Ash silo

Controlled emissions = 25 tons/tanker at 2% fugitive (1-0.999 eff) (1 tanker/hr) x 2000 lbs/ton = 1 lb/hr

1 lb/hr (3 tankers/wk) (52 wks/yr) 2000 lbs/ton = 0.08 tons/year.

### 3. Dry mix is sealed to the truck by a rubber ring = 0 lbs/hr emissions = 0 tons/year.

## III. Proposed Department Action

Pursuant to Chapter 403.087 and Section 17-4.07 Florida Administrative Code the Department hereby gives notice of its intent to issue a permit to construct a pollution control device (PCD) to insure that ambient air regulations are not violated and does so for the following reasons:

1. For Class II area the maximum allowable increase in concentration of particulate matter over the baseline of such pollutant shall not exceed  $19 \text{ ug/m}^3$  annual geometric mean and  $37 \text{ ug/m}^3$  for 24 hour maximum. [FAC 17-2.04(1)(b)].
2. The uncontrolled TSP emissions for the plant per AP 42 are estimated to be 13 T/yr thus under the 15 T/y required for a BACT. The Department sees this source as insignificant negating the need for BACT.
3. Permit Conditions are as follows:
  - a. Construction of this facility shall be completed by November 15, 1981. An application to operate this installation shall be submitted to the Department sixty (60) days prior to expiration date of this permit.

- b. This construction permit expires on January 15, 1982 following an initial period of operation for appropriate testing to determine compliance with the rules of the Florida Department of Environmental Regulation Commission. [Chapter 17-4.07(7), F.A.C.]
- c. All applicable rules of the Department including design discharge limitations specified in the application shall be adhered to. The permit holder may also need to comply with county, municipal, federal, or other state regulations prior to construction. [Chapter 17-4.07(1), F.A.C.]
- d. This unit shall be observed for visible emissions (plume density) within 30 days after completion of construction and prior to general operation. [Chapter 17-2.05(1)(a)] During the test period this unit must be run within 10% of operating capacity.
- e. All reasonable precautions shall be taken to prevent and control generation of fugitive particulate matter. [Chapter 17-2.05(3), F.A.C.]

Copies of the aforementioned application, the technical analysis performed by the Department's staff and their proposed decision are available for public inspection at the following location:

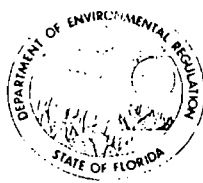
The Florida Department of Environmental Regulation  
Southwest District Office  
7601 Highway 301 North  
Tampa, FL 33610

Persons wishing to comment on any aspect of this action are required to submit their comments in writing to the address above within thirty (30) days of publication of this Notice.

#### IV. Conclusion

This permit should be issued as it will not degrade the air standards nor will it violate any state or federal regulations.

CONSTRUCT/OPERATE APPLICATION FOR GLAZE PREPARATION AREA CONTROL EMISSIONS



STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

Handwritten notes and stamps: JUN 23 1981, SOUTHWEST DISTRICT TAMPA

SOURCE TYPE: DUST/BAG COLLECTOR/BALER ( ) New<sup>1</sup> (X) Existing<sup>1</sup>
APPLICATION TYPE: (X) Construction (X) Operation ( ) Modification
COMPANY NAME: FLORIDA TILE DIVISION OF SIKES CORPORATION COUNTY: POLK (53)

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peeking Unit No. 2, Gas Fired) MILL ROOM DUST COLLECTOR

SOURCE LOCATION: Street 608 PROSPECT STREET City LAKELAND
UTM: East 17-405.2 North 3102.2
Latitude 28 ° 02 ' 45 " N Longitude 81 ° 57 ' 45 " W

APPLICANT NAME AND TITLE: SIKES CORPORATION, FLORIDA TILE DIVISION
APPLICANT ADDRESS: LAKELAND, FLORIDA

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative\* of FLORIDA TILE DIVISION OF SIKES CORPORATION

I certify that the statements made in this application for a DUST/BAG COLLECTOR/BALER OPERATION permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitted establishment.

\*Attach letter of authorization

Signed: B. J. Sandy
Manager of Engineering Services
Name and Title (Please Type)
Date: June 24, 81 Telephone No. 813-687-7171

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signed: Jerry W. Hardin
JERRY W. HARDIN, P.E.
Name (Please Type)
HARDIN ENGINEERING
Company Name (Please Type)
3237 CLEVELAND HGTS. BLVD.
Mailing Address (Please Type)

(Affix Seal)

Florida Registration No. 20331 Date: 6/24/81 Telephone No. (813) 646-0496

<sup>1</sup>See Section 17-2.02(15) and (22), Florida Administrative Code, (F.A.C.)



SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

THIS DUST/BAG COLLECTOR/BALER SYSTEM WAS PURCHASED AND INSTALLED BY FLORIDA TILE AT A COST OF APPROXIMATELY \$110,000 IN ORDER TO REDUCE WORKER EXPOSURE TO DUST AND TO REDUCE FUGITIVE DUST EMISSIONS FROM THE GLAZE PREPARATION PROCESS.

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction IMMEDIATE Completion of Construction \_\_\_\_\_

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

DUST COLLECTOR = \$24,394.00, CYCLONE = \$14,979.00, BALER = \$13,801.00  
FAN = \$10,928.00, DUCT WORK = \$15,978.00, MOTOR CONTROL CENTER = \$4,124.6

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

NONE FOR THE SPECIFIC UNIT

OTHERS: A053-18297, 18298, 18299, 18300, 18301, 18302, 18303

ALL ISSUED 5/30/79 AND EXPIRE 5/10/84

E. Is this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 22F-2, Florida Administrative Code?  Yes  No

F. Normal equipment operating time: hrs/day 16 ; days/wk 7 ; wks/yr \_\_\_\_\_ ; if power plant, hrs/yr \_\_\_\_\_ ; if seasonal, describe: \_\_\_\_\_

DEPENDENT PRIMARILY ON PRODUCT DEMAND

G. If this is a new source or major modification, answer the following questions. (Yes or No)

1. Is this source in a non-attainment area for a particular pollutant? N/A

a. If yes, has "offset" been applied? N/A

b. If yes, has "Lowest Achievable Emission Rate" been applied? N/A

c. If yes, list non-attainment pollutants.

NOT A NEW SOURCE OR MAJOR MODIFICATION

2. Does best available control technology (BACT) apply to this source? If yes, see Section VI. N/A

3. Does the State "Prevention of Significant Deterioration" (PSD) requirements apply to this source? If yes, see Sections VI and VII. N/A

4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source? N/A

5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? N/A

Attach all supportive information related to any answer of "Yes". Attach any justification for any answer of "No" that might be considered questionable.

**SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)**

**A. Raw Materials and Chemicals Used in your Process, if applicable:**

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
CERAMIC GLAZES ARE COMPOSED OF A RANGE OF DIFFERENT CHEMICALS AND MINERALS BUT IN GENERAL CAN BE BROKEN DOWN INTO FIVE MAJOR CATEGORIES: FRITS, STAINS, OPACIFIERS, CLAYS, AND GLASS FORMERS. THE EXACT INGREDIENTS BY WEIGHT ARE TRADE SECRETS OF THE RAW MATERIALS SUPPLIERS.				

**B. Process Rate, if applicable: (See Section V, Item 1)**

1. Total Process Input Rate (lbs/hr): 2,223.95 LBS./HOUR INPUT

2. Product Weight (lbs/hr): 2,135.99 LBS./HOUR INPUT

**C. Airborne Contaminants Emitted:**

**(PROPOSED ANNUAL PARTICULATE EMISSIONS TESTING)**

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission <sup>2</sup> Rate per Ch. 17-2, F.A.C.	Allowable <sup>3</sup> Emission lbs/hr	Potential Emission <sup>4</sup>		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr	T/yr	
FRITS	.0364	.0874	N/A (NO HEAT INPUT)	NO STANDARD	.607	1.46	D&E
STAINS	.00683	.0164	" "		.0488	.117	D&E
OPACIFIERS	.0355	.0852	" "		.254	.610	D&E
CLAYS	.0232	.0557	" "		.166	.398	D&E
GLASS FORMERS	.161	.386	" "		1.148	2.755	D&E
TOTAL	0.6307						

TOTAL ALLOWED = 0.9 LBS/HR PER 17-2

**D. Control Devices: (See Section V, Item 4)**

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles <sup>5</sup> Size Collected (in microns)	Basis for Efficiency (Sec. V, It <sup>5</sup> )
SERIAL NO. 1188-9380				
WALSH-PARSONS MOD. 1188	FRITS	99.3%	UNKNOWN	MANUFACTURER
" "	STAINS	99.3%	UNKNOWN	MANUFACTURER
" "	OPACIFIERS	99.3%	UNKNOWN	MANUFACTURER
" "	CLAYS	99.3%	UNKNOWN	MANUFACTURER
" "	GLASS FORMERS	99.3%	UNKNOWN	MANUFACTURER

<sup>1</sup>See Section V, Item 2.

<sup>2</sup>Reference applicable emission standards and units (e.g., Section 17-2.05(6) Table II, E. (1), F.A.C. - 0.1 pounds per million BTU heat input)

<sup>3</sup>Calculated from operating rate and applicable standard

<sup>4</sup>Emission, if source operated without control (See Section V, Item 3)

<sup>5</sup>If Applicable

E. Fuels

NOT APPLICABLE

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	

\*Units Natural Gas, MMCF/hr; Fuel Oils, barrels/hr; Coal, lbs/hr

Fuel Analysis:

Percent Sulfur: \_\_\_\_\_ Percent Ash: \_\_\_\_\_

Density: \_\_\_\_\_ lbs/gal Typical Percent Nitrogen: \_\_\_\_\_

Heat Capacity: \_\_\_\_\_ BTU/lb \_\_\_\_\_ BTU/gal

Other Fuel Contaminants (which may cause air pollution): \_\_\_\_\_

F. If applicable, indicate the percent of fuel used for space heating. Annual Average N/A Maximum \_\_\_\_\_

G. Indicate liquid or solid wastes generated and method of disposal.

BALES OF BAGS ARE CARRIED OFF BY THE CITY TO A LANDFILL. DUST FROM THE DUST COLLECTOR IS CARRIED OFF BY OUR OWN TRUCKS TO A LANDFILL.

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: 28 ft. Stack Diameter: 2.4166 ft.

Gas Flow Rate: 11,000 ACFM Gas Exit Temperature: AMBIENT °F.

Water Vapor Content: AMBIENT % Velocity: 40 FPS

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type O (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq & Gas By-prod.)	Type VI (Solid By-prod.)
Lbs/hr Incinerated							

Description of Waste \_\_\_\_\_

Total Weight Incinerated (lbs/hr) \_\_\_\_\_ Design Capacity (lbs/hr) \_\_\_\_\_

Approximate Number of Hours of Operation per day \_\_\_\_\_ days/week \_\_\_\_\_

Manufacturer \_\_\_\_\_

Date Constructed \_\_\_\_\_ Model No. \_\_\_\_\_

## SUPPLEMENT

### SECTION II, ITEM A CONTINUED:

SINCE MOST OF THE GLAZE COMPONENTS USED IN THIS PROCESS ARE SUPPLIED IN BAGS AS FINELY GROUND POWDERS, THE PURPOSE OF THIS PROJECT IS TO COLLECT THE DUST GENERATED BY THE HANDLING OF THE MATERIAL.

THE GLAZE PREPARATION PROCESS CONSISTS OF CUTTING AND DUMPING BAGS OF MATERIAL INTO AN OPEN HOPPER WHICH RESTS ON A SCALE. AFTER THE PROPER BATCH IS WEIGHED IN, THE HOPPER IS HOISTED OVER AND DISCHARGED INTO ONE OF SEVERAL BALL MILLS (A DRUM-TYPE MILL WITH ALUMINA BALLS FOR TUMBLE GRINDING OF SLURRIES) TO WHICH WATER IS ADDED BEFORE GRINDING FOR 8 TO 10 HOURS.

THE POLLUTION CONTROL EQUIPMENT INCLUDED IN THIS PROJECT IS A DUST COLLECTOR WITH FAN, CYCLONE, BALER, AND MISCELLANEOUS HOODS, FITTINGS AND DUCT WORK. THE INSTALLATION IS EXPECTED TO RESULT IN FULL COMPLIANCE BY CAPTURING VIRTUALLY ALL OF THE DUST CREATED BY THE DUMPING OF BAGS, THE DISPOSAL OF BAGS, AND THE LOADING OF THE BALL MILLS.

SUPPLEMENTSECTION IV. SUPPLEMENTAL REQUIREMENTS:

1) TOTAL PROCESS INPUT RATE:	FRITS	607.37	
	STAINS	48.80	
	OPACIFIERS	253.82	
	CLAY	165.84	
	GLASS FORMER	1,148.18	
		<u>2,223.95</u>	LBS./HOUR

## PRODUCT WEIGHT:

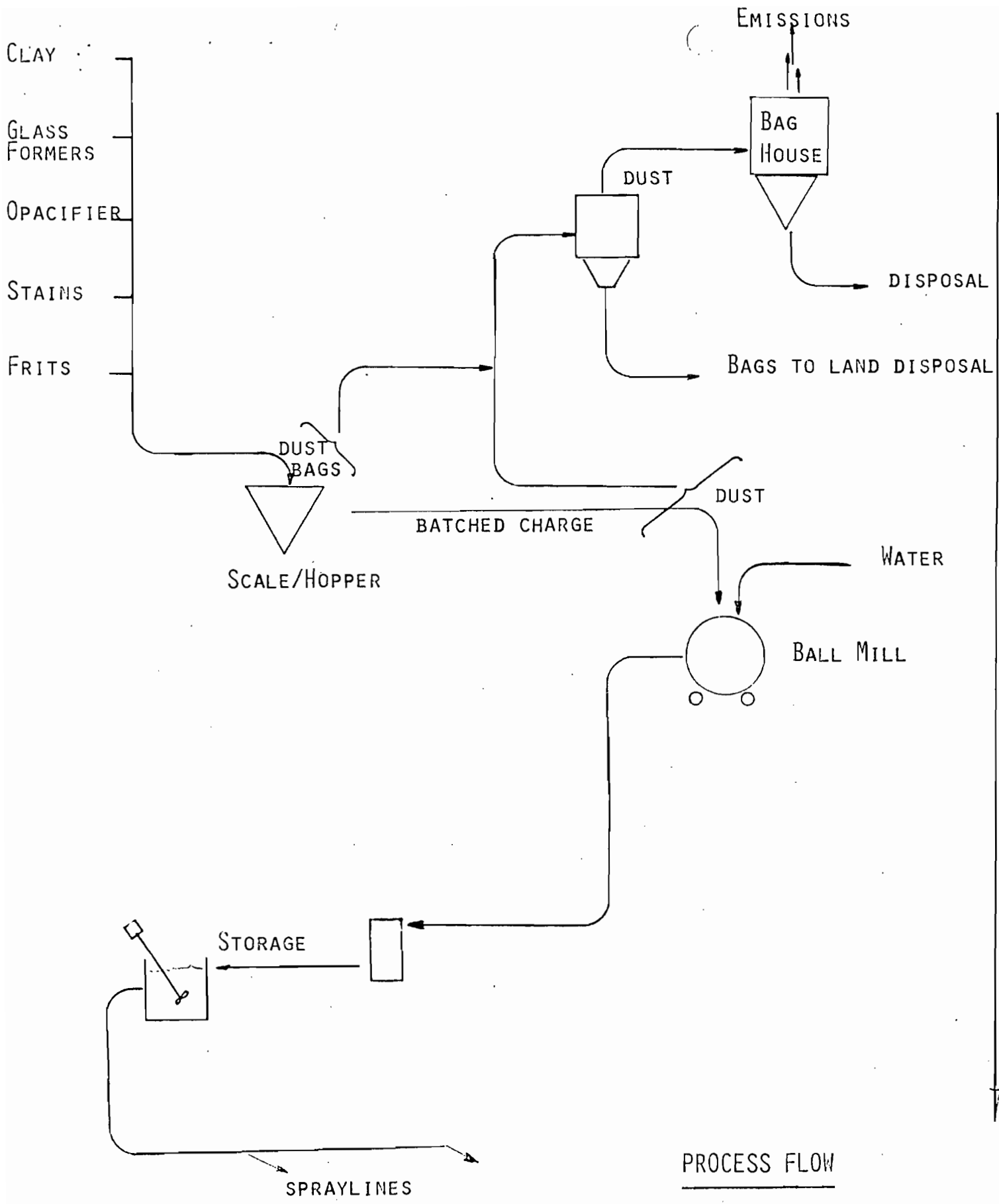
AN ESTIATED APPROXIMATE 4% LOSS OCCURS IN PRODUCTION

2,223.95

x .96

2,135.99 LBS/HOUR

- 2) THE CONTROL EQUIPMENT MANUFACTURER ESTIMATES THAT THE DUST COLLECTOR WILL OPERATE AT A 99.3% EFFICIENCY.
- 3) BASIS OF POTENTIAL DISCHARGE:  
WE ESTIMATE THAT PRIOR TO INSTALLATION OF THIS SYSTEM, LESS THAN .1% OF THE MATERIAL WAS LOST TO FUGITIVE DUST EMISSIONS.
- 4) DUST COLLECTOR CLOTH TO AIR RATIO IS 1:4. SEE ENCLOSED FOR DESIGN DRAWINGS.
- 5) EFFICIENCY WAS ESTIMATED BY THE MANUFACTURER AS 99.3%.



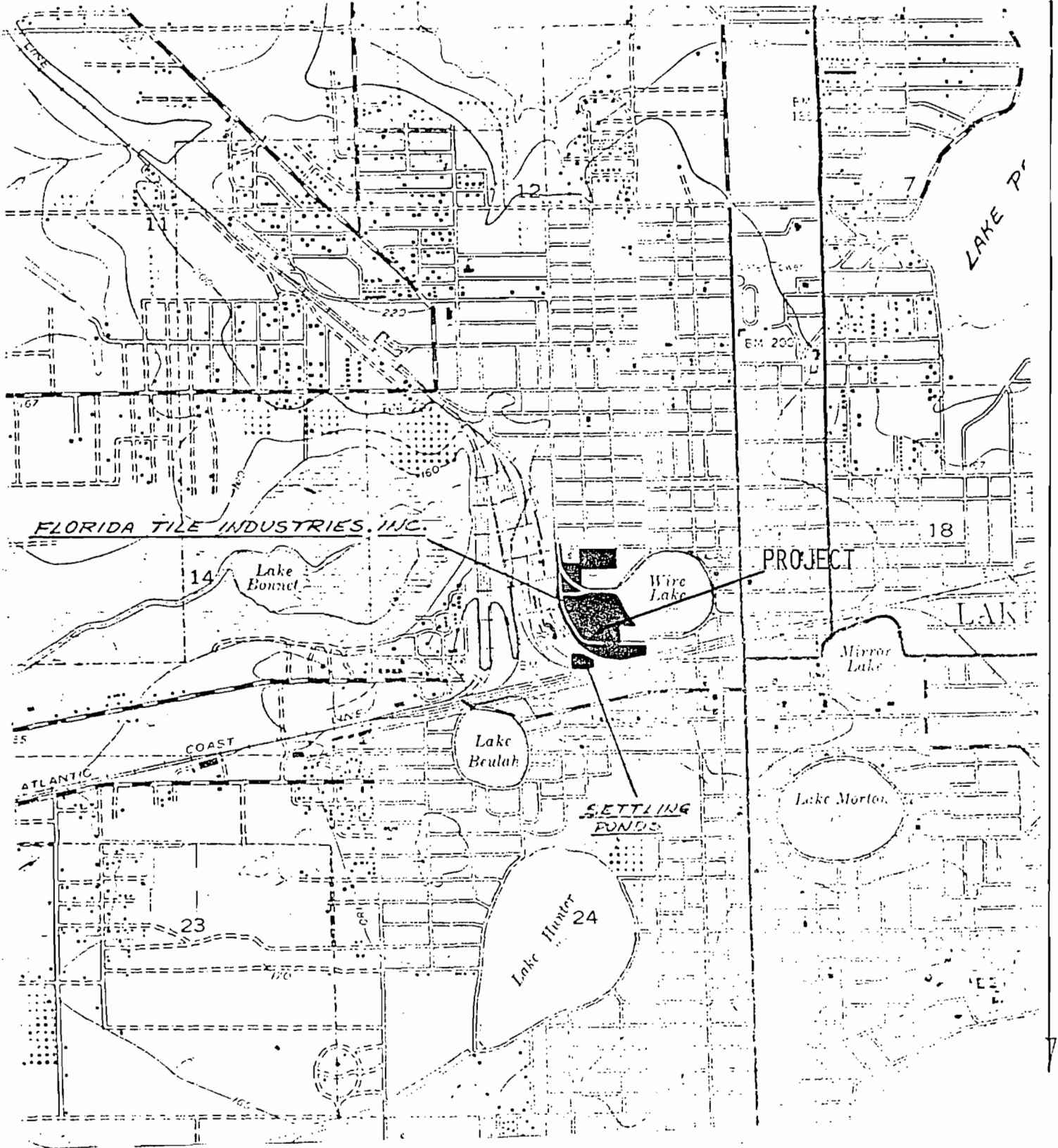
FLORIDA TILE - GLAZE PREPARATION/EMISSIONS CONTROL

GEO-ENVIRONMENTAL AND ENGINEERING SERVICES

3237 CLEVELAND HEIGHTS BLVD., LAKELAND, FLORIDA 33803

PHONE: 646-0496





FLORIDA TILE - LOCATION MAP





FLORIDA TILE - PROJECT LOCATION

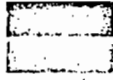
GEO-ENVIRONMENTAL AND ENGINEERING SERVICES

3237 CLEVELAND HEIGHTS BLVD., LAKELAND, FLORIDA 33803

PHONE 646-0496







**Sikes**

Formerly Florida Tile Industries, Inc.

SIKES CORPORATION • LAKELAND, FLORIDA 33802 • (813) 683-5431

W. R. FANNIN

EXECUTIVE VICE PRESIDENT - FINANCE

November 4th, 1976

State of Florida  
Department of Environmental Regulation  
500 East Central Avenue  
Suite No. 238  
Winter Haven, Florida 33880

Gentlemen:

This is to advise that our Mr. B. J. Gandy, Manager of Engineering Services, is an authorized representative of our Company in matters involving your agency.

Yours very truly,

SIKES CORPORATION

W. R. Fannin  
Executive Vice President

WRF/ch

Sike's Corporation (dba Florida Tile Industries, Inc.)

ADR Actuals

Polk Co.

WILSON JONES 1053-18302	Process Use *	Allowable lbs/hr	Actual *	Hrs. of Operation hrs/days/wks	ADR Actuals Tons/yr Allowable	tons/yr potential	ADR '81 Tons/yr
1053-18302	Tile Kilns (15) for Wall Tile (glaze) 381 x 10 <sup>6</sup> ft <sup>2</sup> /day 148 x 10 <sup>6</sup> ft <sup>2</sup> /day	18 16 17 200	0.0735 lbs/hr (1/1000 lbs/hr)	24/5/50 ADR	ADR → 3.42	ADR → 3.42	TSP 3.42 SO <sub>2</sub> .11 NO <sub>x</sub> 38.1 CO 3.0 HC 5
-18301	Tile Dryers	2	not tested	24/5/50 ADR	?	?	no info. reported
-18298	Tile Glazing (both sides)	7.6	12.62	16/5/50 ADR	ADR → 10.85 ADR → 3.39	55.1	679,000 #/day 22,433 #/day
-18299	Tile Pressing w/ 2 light's	8.22	13.25	not tested	16/5/50 PUS	57.9	262,000 #/day TSP 39.45 TONS/yr
-18300	3 Storage Silos w/ 3 light's	36.36	50.76	not tested	8/5/50 PUS	134.36	234,000 #/day TSP 35.1 TSP
-18303	Batching System 2 light's	17.96	17.58	not tested	16/5/50 PUS	76.8	262,000 #/day 39.45 TSP
-18297	Simpson Mixers w/ 3 dust collectors	17.96	17.58	not tested	16/5/50 PUS	76.8	262,000 lbs/day TSP 39.45 TONS/yr Acid Not rec'd
-48977	mill Room Dust Collector (2-1-82)	1.112	3.9 (3.77 TSP)	16/7/46 (5,150) Oct 81 start test	PUS 10.05	170	Oct '81 start test 1.29 TSP
* Information for operation unless noted					PUS process USE TOTAL 421.4 TSP POTENTIAL Based on actual hrs of operation which are listed in parentheses TOTAL 246.29 TONS PER YEAR Allowable		

Handwritten signature and date: 4-1-81

7 8 9 10 11 12 13 14

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36

DER

MAY 14 1982

BAQM

# Existing Sources

Fla Tile

		op. schedule	PM	emissions (TPY)				E. Factors
				SO <sub>2</sub>	NO <sub>x</sub>	HC	CO	
1.	A053-18302	24x5x50	3.42	0.11	38.1	0.57	3.24	AP-42
A053-2155	Tile kilns (15) for Wall Tile (#1-15)		3250 ACFM 7.670 WU @ 425°F				0.0735 gr./dsct kiln exhaust	
A053-2503	381x 10 <sup>6</sup> ft <sup>3</sup> Natural Gas		util. Rate 277,672 #/day				45,000,000 Btu/hr H.F. Max H.I./hr @ 1,080x10 <sup>6</sup> Btu/hr	
24x7	3,856.5 ft <sup>3</sup> @ 3 #/ft <sup>2</sup> x 24x7x?		11,567 TIRW					
2.	A053-18301							
A053-2155	Tile Dryers	24x5x50						
A053-2504		34.7 ACFM 140-160°F	48,000 ft <sup>3</sup> /day Nat. Gas				2,080,000 Btu/hr. Heat Input	
24x7	3,125 #/hr TIRW 75,000 #/day		25,000 ft <sup>3</sup> /day @ 3 #/ft <sup>2</sup> x 24x7x?					
3.	A053-18303	16x5x50						AP-42
	Batching Sys. Baghouse: Micro-Pulsair Dust Collector		39.45					
	263,000 #/day Input Process wt.							
4.	A053-18298	Not Given						AP-42
A053-2155 - 1/1/74	Tile Glazing: 8 units, Binks #101 Caps, Internal Booth Baffles							
A053-2507 2/15/74 - 2/15/79		1050 ACFM 4.790 WU, 85-90°F	101.85 3.39					
16 hr	679,000 #/day input process wt. 22,633 #/day	Allowed 12.64 #/hr 1.64 #/Ton (7.67 TPH)	Actual 5.84 #/hr (8.74 #/hr @ 0.64 #/hr)					
5.	A053-18299	16x5x50						AP-42
A053-2155 - 1/1/74	Tile Pressing with 2 Baghouses: Pangborn & W.W. Sly dust collectors							
A053-2606 2/15/74 - 2/15/79		16,000 ACFM x 2 4.590 WU, 85-90°F 99.9	39.45					
16 hr	263,000 #/day I.P.W.	Allowed 2.22 #/Ton 18.274 #/hr, 5.21 TPH rate	Actual 16,437.5 #/hr TIRW					
6.	A053-18300	8x5x50						AP-42
A053-2155 - 1/1/74	3 Storage Silos: Micro-Pulsair dust collectors							
A053-2505 2/15/74 - 2/15/79		1600 ACFM 4.590 WU, 85-90°F C-99.9	35.1					
70% of 8 hr/day	234,000 #/day I.P.W. Based on 200 Tons/70% of 8 hr/day	Allowed 2.769 #/Ton 100.70 #/hr	Actual 72,720 #/hr TIRW					
7.	A053-18297	16x5x50						AP-42
A053-2155 - 1/1/74	3 Simpson Mixers - 3 dust collectors (#1, #2, #3)							
A053-2508 2/15/74 - 2/15/79		Micro-Pulsair 165-6-30 E-99.9	1928 ACFM @ 252 1.590 WU, 85-90°F	39.45				
16 hrs/day	25,925 #/hr TIRW 263,000 #/day I.P.W.	Allowed 2.23 #/Ton	Actual 12.96 T/hr rate @ 0.7433 #/Ton Mixer					
Total			262.11	0.11	38.1	0.57	3.24	

# Const: New Sources

AC-53-48977 Mill Room Dust Collector

8-19-81 → 2-1-82 (Const P.)

16 x 7 x ?  
(5152)

Process wt.: 1.112 ~~T~~/hr

Allowable: 3.9 #/hr P.W. 10.05 TPY 17.0 TPY Potential ~~at~~

Actual 0.5 #/hr stack test Oct '81  $\frac{\text{x hr} = 1.29 \text{ TPY}}{2000}$

$$2,223.95 \text{ #/hr. [TPY]} \times 0.007 \text{ (Penetration)} = 15.57 \text{ #/hr.}$$

$$\times 16 \times 7 \times 50 \approx 2000 =$$

43.59 TPY

\*

$$2,223.95 \text{ TPY} - 2,135.99 \text{ P.W.} = 87.96 \text{ #/hr emissions}$$

$$\times 0.007 (P) = 0.61572 \text{ #/hr}$$

$$\times 16 \times 7 \times 50 = 1.736 \text{ TPY}$$

AC53-55782

Mill

6 x 3 x 45

PM	SO <sub>2</sub>	CO	HC	NO <sub>x</sub>
0.01	0.006	0.02	0.01	0.12

30 x 10<sup>6</sup> Btu/hr H.T. max

2825 cfm/hr NA fired

565 acfm @ 7.8% W/V @ 425°F

AC53-55784

Micro-Pulsaine Baghouse 6 x 3 x 45

17-2.04?

1005-10-20

99.7% = G

$$R = 3.59 P^{0.62}$$

$$K = 17.31 P^{0.16}$$

PS 30TPH

-18298

$$3.59 (15,200/2000)^{0.62} = 3.59 (7.6)^{0.62} = 12.62 \#/\text{hr}$$

$$\times 16 \text{ hrs/day} \times 30 \text{ days/mth} \times 12 \text{ mth/yr} = 36.36 \text{ TPY}$$

~~10000 20000 30000~~

-18297

$$3.59 (25,925/2000)^{0.62} = 3.59 (12.9625)^{0.62} = 17.58 \#/\text{hr}$$

~~16 hrs/day 30 days/mth 12 mth/yr~~

$$\times 16 \times 5 \times 50 = 35.16 \text{ TPY}$$

-18299

$$3.59 (16,437.5/2000)^{0.62} = 3.59 (8.21875)^{0.62} = 13.25 \#/\text{hr}$$

$$\times 16 \times 5 \times 50 = 26.50 \text{ TPY}$$

-18300

$$3.59 (36.36)^{0.62} \times 3 = 33.32 \text{ (circled)} \times 3 = 99.96 \#/\text{hr}$$

#/hr per silo

$$\times (7 \times 8) = \times 5 \times 50 = 69.97 \text{ TPY}$$

Total for 3 silos

-18302

Products of combustion N.G.

~~24 x 7 x 50~~

$$3.59 (1,567/2000)^{0.62} = 3.59 (5.7835)^{0.62} = 10.66 \#/\text{hr}$$
$$\times 24 \times 7 \times 50 = 44.77 \text{ TPY}$$

-18301

Products of combustion - N.G.

$$3.59 (3,125/2000)^{0.62} = 3.59 (1.5625)^{0.62} = 4.73 \#/\text{hr}$$
$$\times 24 \times 7 \times 50 = 17.87 \text{ TPY}$$

-18300

$$3.59 (25,925/2000)^{0.62} = 17.58 \#/\text{hr}$$

$$\times 16 \times 5 \times 50 = 35.16 \text{ TPY}$$

18302

$$45 \times 10^6 \text{ Btu/hr} \div 1050 \text{ Btu/ft}^3 = 4.2857143 \times 10^4 \frac{\text{ft}^3}{\text{hr}}$$

	PM (15)	SO <sub>2</sub> (0.6)	CO (20)	HC (8)	NO <sub>x</sub> (120)
15 #/10 <sup>6</sup> ft <sup>3</sup> =	0.643 #/hr	0.0257 (0.026)	0.857 (0.86)	0.3429 (0.34)	5.14
x 24 x 7 x 50 ÷ 2000 =	2.7 TPY	0.108 (0.11)	3.6	1.44	21.6

18301

$$2.080 \times 10^6 \text{ Btu/hr} \div 1050 \text{ Btu/ft}^3 = 1.9809524 \times 10^3 \frac{\text{ft}^3}{\text{hr}}$$

	PM (15)	SO <sub>2</sub> (0.6)	CO (20)	HC (8)	NO <sub>x</sub> (120)
15 #/10 <sup>6</sup> ft <sup>3</sup> =	0.029714 #/hr	0.0012 (0.001)	0.0396 (0.04)	0.0158 (0.016)	0.238 (0.24)
x 24 x 7 x 50 ÷ 2000 =	0.1248 TPY	0.00499 (0.005)	0.1664 (0.17)	0.06656 (0.067)	0.998 (1.0)



Based on the table, the facility is major for the pollutant particulate matter (PM). Therefore, further PSD review shall be according to Chapter 17-2.500 (2)(d) 4. a. (ii), FAC, Modifications to Major Facilities.

The following table exhibits the potential emissions of the proposed modifications to and one current construction permit (AC 53-48977) at the existing major facility:

~~Projected Annual Potential Emissions of Proposed Modifications and Current Construction Permit~~  
Hourly and  
Projected Annual Potential  
Emissions of Proposed Modifications and Current Construction Permit  
Permitted  
the Allowable Emissions of the

Before PSD review will be required at least one of the pollutants must exceed the significant level (see Table 500-2, FAC). Since there are not any pollutant totals that exceed the significant levels, a PSD determination will not be required for the proposed projects according to Chapter 17-2.500 (2)(d) 4. a. (ii), FAC.

In establishing the historical facility emissions, PSD review allows the use of established actual emissions or the allowable emissions, if Federally enforceable. <sup>current source operating</sup> There are no permit conditions requiring compliance tests that could <sup>have</sup> established the <sup>facility historical</sup> actual emissions. However, the company did submit to DER's Southwest District Office the "Annual Operations Report Form For Air Emissions Sources" for the year 1981, which documented <sup>facility's</sup> the annual actual emissions <sup>by source.</sup> ~~and the same~~

Since →

~~on the annual emissions that had been reported in the original application to construct and operate an integrated process. Therefore, the following table was developed from and will reflect these annual actual <sup>by source</sup> emissions to establish the facility's historical actual emissions.~~ ~~and shall be incorporated into the appropriate permit.~~

Actual Existing Facility's ~~Actual~~ Emissions ~~Table~~

Source	Permit #	Pollutant (TPY)				
		PM	SO <sub>2</sub>	NO <sub>x</sub>	HC	CO
Tile kilns (15)	A053- 18302	3.26 <del>3.26</del>	0.105	36.34	0.544	3.09
Tile Dryers	- 18301	0.16	0.005	1.76	0.026	0.15
Batching Sys. Baghouse	- 18303	39.45				
Tile Glazing (8)	- 18298	101.85				
		3.39				
Tile Pressing	- 18299	39.45				
Storage Silos (3)	- 18300	35.1				
Simpson Mixers (3)	- 18297	39.45				
	Total	262.11	0.11	38.1	0.57	3.24

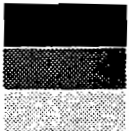
*[Handwritten scribbles and signatures on the right margin]*

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

No 33607

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Sikes Corporation Date May 5, 1982  
Address P.O. Box 447, Lakeland, FL 33802 Dollars \$ 60.00  
Applicant Name & Address Florida Tile Industries, Inc. (same as above)  
Source of Revenue \_\_\_\_\_  
Revenue Code 1101 Application Number AC 53-55781  
AC 53-55782 AC 53-55784  
By Patricia G. Adams



**Sikes**

Formerly Florida Tile Industries, Inc.

SIKES CORPORATION • P. O. BOX 447 • LAKELAND, FLORIDA 33802

No 13848

631

UN FIRST NATIONAL BANK OF POLK COUNTY  
LAKELAND, FLORIDA

DATE April 22, 1982 \$ \*\*60.00\*\*

PAY

SIKES CORP. 60 DOLS 00 CTS

DOLLARS

TO  
THE  
ORDER  
OF

State of Florida Dept. of Environmental  
Regulation  
7601 Hwy 301 North  
Tampa, Fl 33610

SIKES CORPORATION  
David J. M. Jensen  
AUTHORIZED SIGNATURE  
Paul J. Ford  
COUNTERSIGNED



R. & D.  
TILE DRYER

AC 53-55781



DER's copy 3/4

DER

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

DER

MAY 14 1982 APPLICATION TO /CONSTRUCT  
AIR POLLUTION SOURCES

MAY 5 1982

SOUTHWEST DISTRICT  
TAMPA

SOURCE TYPE: AIR POLLUTION  New  Existing

APPLICATION TYPE:  Construction  Operation  Modification

COMPANY NAME: FLORIDA TILE INDUSTRIES INC. COUNTY: POLK

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peeking Unit No. 2, Gas Fired) TILE DRYER

SOURCE LOCATION: Street 608 PROSPECT STREET City LAKELAND

UTM: East \_\_\_\_\_ North \_\_\_\_\_

Latitude 28 ° 02 ' 45 " N Longitude 81 ° 57 ' 45 " W

APPLICANT NAME AND TITLE: FLORIDA TILE INDUSTRIES, INC., A DIVISION OF SIKES CORP.

APPLICANT ADDRESS: 608 PROSPECT ST., P.O. BOX 447, LAKELAND, FLORIDA 33802

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative\* of FLORIDA TILE INDUSTRIES, INC.

I certify that the statements made in this application for a AIR POLLUTION CONSTRUCTION permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitted establishment.

\*Attach letter of authorization

Signed: William R. Boakes

WILLIAM R. BOAKES VICE-PRESIDENT  
Name and Title (Please Type)

Date: \_\_\_\_\_ Telephone No. (813) 683-5431

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signed: Jerry W. Hardin

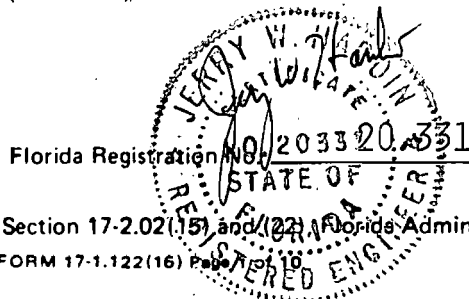
JERRY W. HARDIN, P.E.  
Name (Please Type)

HARDIN ENGINEERING  
Company Name (Please Type)

3237 CLEVELAND HGTS. BLVD.  
Mailing Address (Please Type)

Date: 3/15/82 Telephone No. (813) 646-0496

(Affix Seal)



<sup>1</sup>See Section 17-2.02(15) and (22), Florida Administrative Code, (F.A.C.)

**SECTION II: GENERAL PROJECT INFORMATION**

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

THIS UNIT CONSISTS OF AN R. & D. SCALE CONVENTIONAL GAS FIRED  
TILE DRYER. NATURAL GAS IS BURNED TO PROVIDED CONVENTIONAL  
HEATING OF CERAMIC TILES. DRYING OF TILES PRIOR TO ACTUAL FIRING  
IS CARRIED OUT TO AVOID DEFORMATION OF TILES DURING RAPID HEATING.

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction IMMEDIATELY Completion of Construction WITHIN 90 DAYS

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

ENTIRE UNIT = \$150,000

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

NONE FOR THIS SPECIFIC POINT OF EMISSION.  
NEW CONSTRUCTION AT AN EXISTING SOURCE.

E. Is this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 22F-2, Florida Administrative Code? Yes  No

F. Normal equipment operating time: hrs/day 6; days/wk 3; wks/yr 45; if power plant, hrs/yr \_\_\_\_\_; if seasonal, describe: \_\_\_\_\_

G. If this is a new source or major modification, answer the following questions. (Yes or No)

- |   |           |
|---|-----------|
| 1. Is this source in a non-attainment area for a particular pollutant?  | <u>NO</u> |
| a. If yes, has "offset" been applied?   | <u>NA</u> |
| b. If yes, has "Lowest Achievable Emission Rate" been applied?  | <u>NA</u> |
| c. If yes, list non-attainment pollutants.  |           |
| <hr/>   |           |
| 2. Does best available control technology (BACT) apply to this source? If yes, see Section VI.  | <u>NA</u> |
| 3. Does the State "Prevention of Significant Deterioration" (PSD) requirements apply to this source? If yes, see Sections VI and VII. | <u>NA</u> |
| 4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source?  | <u>NA</u> |
| 5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source?                                       | <u>NA</u> |

Attach all supportive information related to any answer of "Yes". Attach any justification for any answer of "No" that might be considered questionable.

**SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)**

A. Raw Materials and Chemicals Used in your Process, if applicable:

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
COMBUSTION PRODUCTS OF NATURAL GAS			960 FT. <sup>3</sup> /HOUR	N/A
	N/A	N/A		

B. Process Rate, if applicable: (See Section V, Item 1)

1. Total Process Input Rate (lbs/hr): 17,000 LBS./HOUR
2. Product Weight (lbs/hr): 17,000 LBS./HOUR

C. Airborne Contaminants Emitted:

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission <sup>2</sup> Rate per Ch. 17-2, F.A.C.	Allowable <sup>3</sup> Emission lbs/hr	Potential Emission <sup>4</sup>		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr	T/yr	
PARTICULATES	.01	.004		N/A			N/A
SO <sub>2</sub>	.0006	.002		N/A			N/A
CO	.02	.008		N/A			N/A
HC	.008	.003		N/A			N/A
NO <sub>x</sub>	0.1	.04		N/A			N/A

D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles <sup>5</sup> Size Collected (in microns)	Basis for Efficiency (Sec. V, It <sup>5</sup> )
CONVENTIONAL COMBUSTION CONTROLS				

<sup>1</sup>See Section V, Item 2.

<sup>2</sup>Reference applicable emission standards and units (e.g., Section 17-2.05(6) Table II, E. (1), F.A.C. — 0.1 pounds per million BTU heat input)

<sup>3</sup>Calculated from operating rate and applicable standard

<sup>4</sup>Emission, if source operated without control (See Section V, Item 3)

<sup>5</sup>If Applicable

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
NATURAL GAS	960FT. <sup>3</sup> /HR	960FT. <sup>3</sup> /HR.	10 BTU

\*Units Natural Gas, MMCF/hr; Fuel Oils, barrels/hr; Coal, lbs/hr

Fuel Analysis: N/A

Percent Sulfur: \_\_\_\_\_ Percent Ash: \_\_\_\_\_

Density: \_\_\_\_\_ lbs/gal Typical Percent Nitrogen: \_\_\_\_\_

Heat Capacity: \_\_\_\_\_ BTU/lb \_\_\_\_\_ BTU/gal

Other Fuel Contaminants (which may cause air pollution): \_\_\_\_\_

F. If applicable, indicate the percent of fuel used for space heating. Annual Average \_\_\_\_\_ Maximum \_\_\_\_\_

G. Indicate liquid or solid wastes generated and method of disposal.  
NONE

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: 40 ft. Stack Diameter: 2 ft.

Gas Flow Rate: 200 ACFM Gas Exit Temperature: 150 °F.

Water Vapor Content: ≈ 15 % Velocity: \_\_\_\_\_ FPS

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type O (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq & Gas By-prod.)	Type VI (Solid By-prod.)
Lbs/hr Incinerated							

Description of Waste \_\_\_\_\_

Total Weight Incinerated (lbs/hr) \_\_\_\_\_ Design Capacity (lbs/hr) \_\_\_\_\_

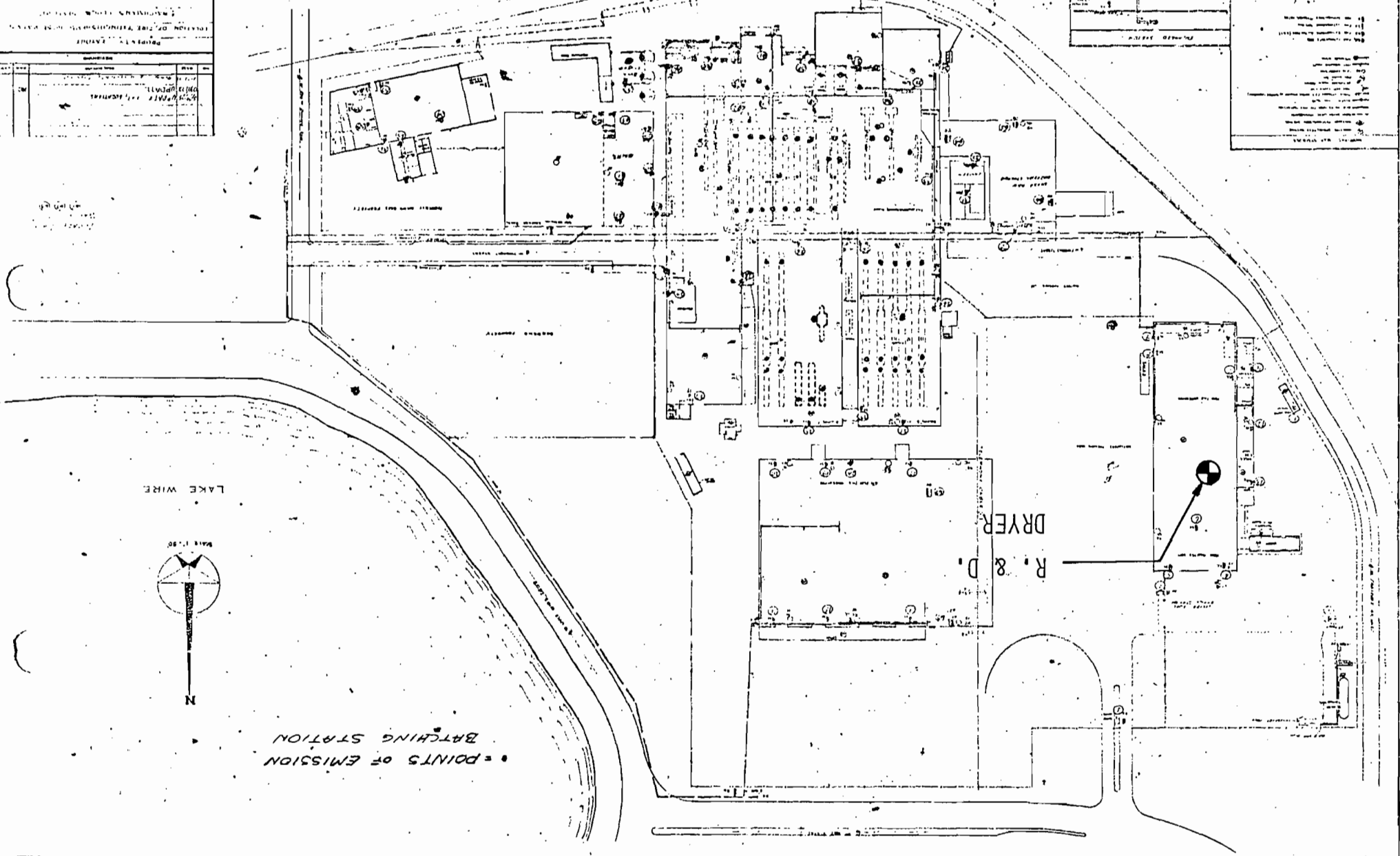
Approximate Number of Hours of Operation per day \_\_\_\_\_ days/week \_\_\_\_\_

Manufacturer \_\_\_\_\_

Date Constructed \_\_\_\_\_ Model No. \_\_\_\_\_

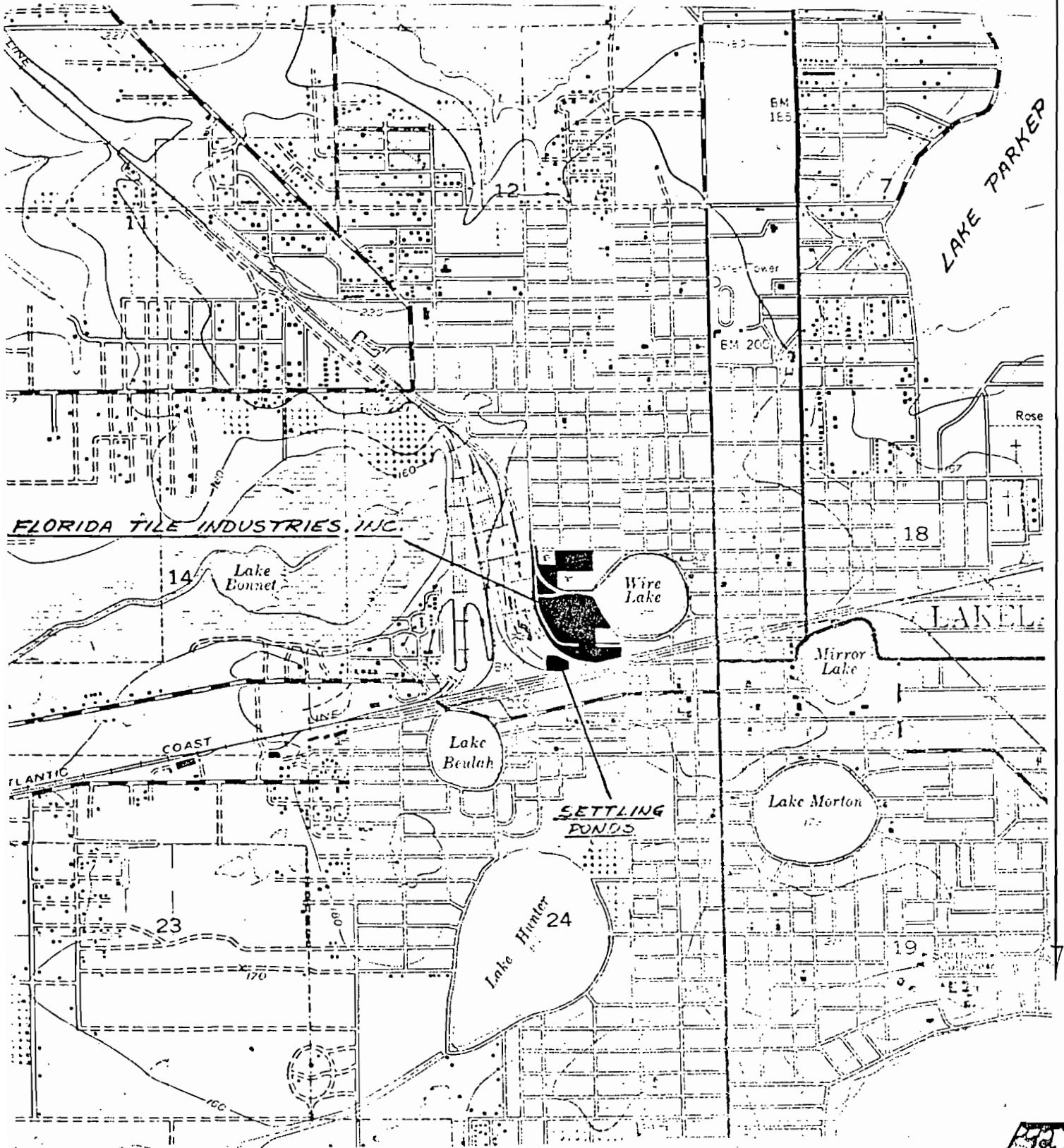
FLORIDA TILE INDUSTRIES INC	
ENGINEERING DEPARTMENT	
LAKELAND, FLORIDA	
PROJECT: BATHING STATION	
LOCATION OF THE BATHING STATION	
DATE: 11/15/64	
DRAWN BY: J. W. BROWN	
CHECKED BY: J. W. BROWN	
SCALE: AS SHOWN	

FLORIDA TILE INDUSTRIES INC  
ENGINEERING DEPARTMENT  
LAKELAND, FLORIDA  
PROJECT: BATHING STATION  
DATE: 11/15/64  
DRAWN BY: J. W. BROWN  
CHECKED BY: J. W. BROWN  
SCALE: AS SHOWN





Best Available Copy



R. & D..  
KILN

AC 53-55782

DER copy 2/4



DER

D.E.R.

MAY 14 1982

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

MAY 15 1982

BAQM

APPLICATION TO CONSTRUCT  
AIR POLLUTION SOURCES

SOUTHWEST DISTRICT  
TAMPA

SOURCE TYPE: AIR POLLUTION [ ] New<sup>1</sup> [X] Existing<sup>1</sup>

APPLICATION TYPE: [X] Construction [ ] Operation [ ] Modification

COMPANY NAME: FLORIDA TILE INDUSTRIES, INC. COUNTY: POLK

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peeking Unit No. 2, Gas Fired) KILN

SOURCE LOCATION: Street 608 PROSPECT STREET City LAKELAND

UTM: East \_\_\_\_\_ North \_\_\_\_\_

Latitude 28 ° 02' 45 "N Longitude 81 ° 57' 45 "W

APPLICANT NAME AND TITLE: FLORIDA TILE INDUSTRIES, INC., DIVISION OF SIKES CORP.

APPLICANT ADDRESS: 608 PROSPECT ST., P.O. BOX 447, LAKELAND, FLA. 33802

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative\* of FLORIDA TILE INDUSTRIES, INC.

I certify that the statements made in this application for a AIR POLLUTION CONSTRUCTION permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitted establishment.

\*Attach letter of authorization

Signed: William R. Boakes  
WILLIAM R. BOAKES V. PRESIDENT  
Name and Title (Please Type)

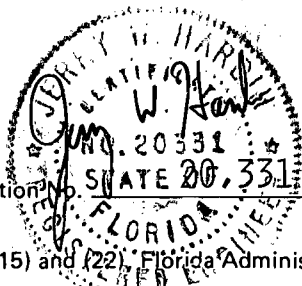
Date: \_\_\_\_\_ Telephone No. (813) 683-5431

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signed: Jerry W. Hardin  
JERRY W. HARDIN, P.E.  
Name (Please Type)

(Affix Seal)



HARDIN ENGINEERING  
Company Name (Please Type)  
3237 CLEVELAND HGTS, BLVD.  
Mailing Address (Please Type)

Florida Registration No. \_\_\_\_\_ Date: 3/15/82 Telephone No. (813) 646-0496

<sup>1</sup>See Section 17-2.02(15) and (22), Florida Administrative Code, (F.A.C.)

SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

PRESSED AND DRIED GREEN TILES ARE FIRED TO FINISHED PRODUCT AT  
HIGH TEMPERATURES. NATURAL GAS CONVENTIONAL COMBUSTION HEATING IS  
PROVIDED.

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction IMMEDIATELY Completion of Construction WITHIN 90 DAYS

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

ENTIRE UNIT = \$150,000

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

NONE FOR THIS SPECIFIC UNIT

E. Is this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 22F-2, Florida Administrative Code? Yes  No

F. Normal equipment operating time: hrs/day 6; days/wk 3; wks/yr 45; if power plant, hrs/yr \_\_\_\_\_; if seasonal, describe: \_\_\_\_\_

G. If this is a new source or major modification, answer the following questions: (Yes or No)

1. Is this source in a non-attainment area for a particular pollutant? \_\_\_\_\_

No

a. If yes, has "offset" been applied? \_\_\_\_\_

b. If yes, has "Lowest Achievable Emission Rate" been applied? \_\_\_\_\_

c. If yes, list non-attainment pollutants.  
\_\_\_\_\_

2. Does best available control technology (BACT) apply to this source? If yes, see Section VI. \_\_\_\_\_

N/A

3. Does the State "Prevention of Significant Deterioration" (PSD) requirements apply to this source? If yes, see Sections VI and VII. \_\_\_\_\_

N/A

4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source? \_\_\_\_\_

N/A

5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? \_\_\_\_\_

N/A

Attach all supportive information related to any answer of "Yes". Attach any justification for any answer of "No" that might be considered questionable.

**SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)**

A. Raw Materials and Chemicals Used in your Process, if applicable:

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
PRODUCT	17,000	LBS./HOUR		

B. Process Rate, if applicable: (See Section V, Item 1)

1. Total Process Input Rate (lbs/hr): 17,000 LBS./HOUR

2. Product Weight (lbs/hr): 17,000 LBS./HOUR

C. Airborne Contaminants Emitted:

**COMBUSTION PRODUCTS**

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission <sup>2</sup> Rate per Ch. 17-2, F.A.C.	Allowable <sup>3</sup> Emission lbs/hr	Potential Emission <sup>4</sup>		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr	T/yr	
PARTICULATES	.03	.01	N/A	N/A	N/A	N/A	N/A
SO <sub>2</sub>	.002	.006	N/A	N/A	N/A	N/A	N/A
CO <sub>2</sub>	.02	.02	N/A	N/A	N/A	N/A	N/A
HC	.02	.01	N/A	N/A	N/A	N/A	N/A
NO <sub>x</sub>	.3	.12	N/A	N/A	N/A	N/A	N/A

D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles <sup>5</sup> Size Collected (in microns)	Basis for Efficiency (Sec. V, It <sup>5</sup> )
NONE OTHER THAN CONVENTIONAL COMBUSTION CONTROLS				

<sup>1</sup>See Section V, Item 2.

<sup>2</sup>Reference applicable emission standards and units (e.g., Section 17-2.05(6) Table II, E. (1), F.A.C. – 0.1 pounds per million BTU heat input)

<sup>3</sup>Calculated from operating rate and applicable standard

<sup>4</sup>Emission, if source operated without control (See Section V, Item 3)

<sup>5</sup>If Applicable

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
NATURAL GAS	2825 CF/HR.	2825 CF/HR.	30

\*Units Natural Gas, MMCF/hr; Fuel Oils, barrels/hr; Coal, lbs/hr

Fuel Analysis: N/A  
 Percent Sulfur: \_\_\_\_\_ Percent Ash: \_\_\_\_\_  
 Density: \_\_\_\_\_ lbs/gal Typical Percent Nitrogen: \_\_\_\_\_  
 Heat Capacity: \_\_\_\_\_ BTU/lb \_\_\_\_\_ BTU/gal  
 Other Fuel Contaminants (which may cause air pollution): \_\_\_\_\_

F. If applicable, indicate the percent of fuel used for space heating. Annual Average \_\_\_\_\_ Maximum \_\_\_\_\_

G. Indicate liquid or solid wastes generated and method of disposal.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

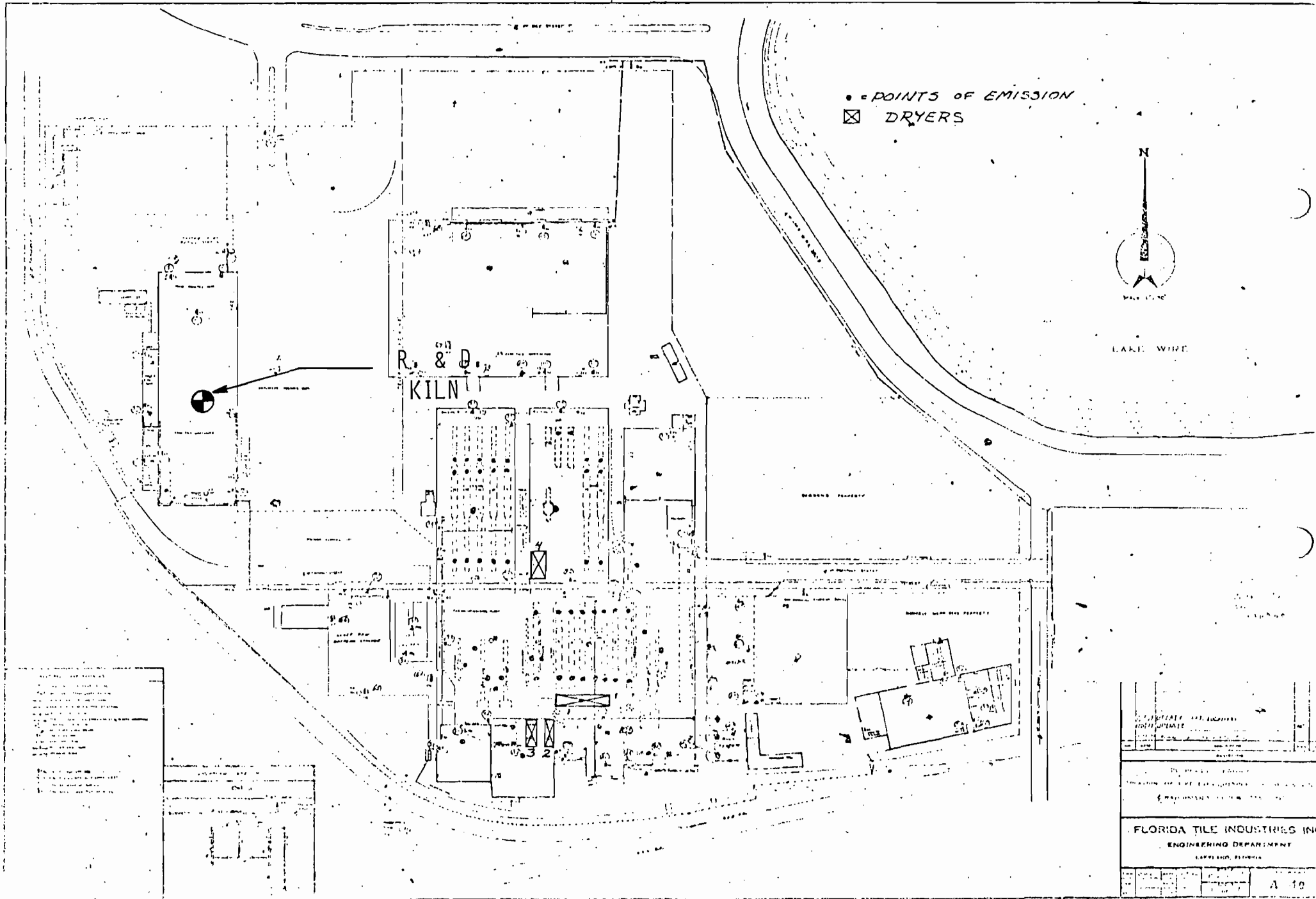
H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):  
 Stack Height: 40 ft. Stack Diameter: 2 ft.  
 Gas Flow Rate: 565 ACFM Gas Exit Temperature: 425 °F.  
 Water Vapor Content: 7.5 % Velocity: 3 FPS

SECTION IV: INCINERATOR INFORMATION

N/A

Type of Waste	Type O (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq & Gas By-prod.)	Type VI (Solid By-prod.)
Lbs/hr Incinerated							

Description of Waste \_\_\_\_\_  
 Total Weight Incinerated (lbs/hr) \_\_\_\_\_ Design Capacity (lbs/hr) \_\_\_\_\_  
 Approximate Number of Hours of Operation per day \_\_\_\_\_ days/week \_\_\_\_\_  
 Manufacturer \_\_\_\_\_  
 Date Constructed \_\_\_\_\_ Model No. \_\_\_\_\_



Best Available Copy



R. & D.  
DUST CONTROL  
MIKRO-PULSAIR B/H

AC 53-55 784

DER's copy 3/4



DER

DER

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

MAY 14 1982

APPLICATION TO CONSTRUCT  
AIR POLLUTION SOURCES

MAY 5 1982  
SOUTHWEST DISTRICT  
TAMPA

BAOM

SOURCE TYPE: AIR POLLUTION [ ] New<sup>1</sup> [X] Existing<sup>1</sup>

APPLICATION TYPE: [X] Construction [ ] Operation [ ] Modification

COMPANY NAME: FLORIDA TILE INDUSTRIES, INC. COUNTY: POLK

Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peeking Unit No. 2, Gas Fired) MIKRO-PULSAIR BAGHOUSE

SOURCE LOCATION: Street 608 PROSPECT STREET City LAKELAND

UTM: East \_\_\_\_\_ North \_\_\_\_\_

Latitude 28 ° 02 ' 45 " N

Longitude 81 ° 57 ' 45 " W

APPLICANT NAME AND TITLE: FLORIDA TILE INDUSTRIES, INC., DIVISION OF SIKES CORP.

APPLICANT ADDRESS: 608 PROSPECT ST., P.O. BOX 447, LAKELAND, FLORIDA 33802

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative\* of FLORIDA TILE INDUSTRIES, INC.

I certify that the statements made in this application for a AIR POLLUTION CONSTRUCTION permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitted establishment.

\*Attach letter of authorization

Signed: William R. Boakes  
WILLIAM R. BOAKES V. PRESIDENT  
Name and Title (Please Type)

Date: \_\_\_\_\_ Telephone No. (813)683-5431

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signed: Jerry W. Hardin  
JERRY W. HARDIN, P.E.  
Name (Please Type)

HARDIN ENGINEERING

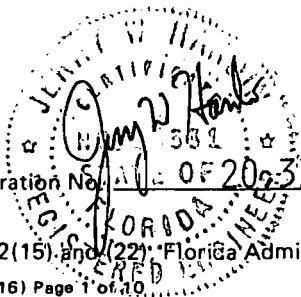
Company Name (Please Type)

3237 CLEVELAND HGTS. BLVD.

Mailing Address (Please Type)

Date: 3/15/82 Telephone No. (813)646-0496

(Affix Seal)



Florida Registration No. 202331

<sup>1</sup>See Section 17-2.02(15) and (22), Florida Administrative Code, (F.A.C.)



**SECTION II: GENERAL PROJECT INFORMATION**

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

THIS PROJECT CONSISTS OF A DUST COLLECTION AND CONTROLLING BAGHOUSE FOR THE CONTROL OF CLAY DUST GENERATED DURING TILE PRESSING OPERATIONS.

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction IMMEDIATELY Completion of Construction WITHIN 6 MONTHS

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

VENTILATION/CAPTURE = \$20,000  
BAGHOUSE, CONTROLS, ETC. = \$20,000

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

NONE FOR THIS R. & D. PLANT

E. Is this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 22F-2, Florida Administrative Code? XX Yes XX No

F. Normal equipment operating time: hrs/day 6; days/wk 3; wks/yr 45; if power plant, hrs/yr \_\_\_\_\_; if seasonal, describe: STRICTLY R. & D.

PRODUCT PROVING USAGE ONLY

G. If this is a new source or major modification, answer the following questions. (Yes or No)

1. Is this source in a non-attainment area for a particular pollutant? NO

a. If yes, has "offset" been applied? \_\_\_\_\_

b. If yes, has "Lowest Achievable Emission Rate" been applied? \_\_\_\_\_

c. If yes, list non-attainment pollutants. \_\_\_\_\_

2. Does best available control technology (BACT) apply to this source? If yes, see Section VI. N/A

3. Does the State "Prevention of Significant Deterioration" (PSD) requirements apply to this source? If yes, see Sections VI and VII. N/A

4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source? N/A

5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source? N/A

Attach all supportive information related to any answer of "Yes". Attach any justification for any answer of "No" that might be considered questionable.

**SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)**

**A. Raw Materials and Chemicals Used in your Process, if applicable:**

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
TILE BODY	PARTICULATE (GENERATED)		17,000	

**B. Process Rate, if applicable: (See Section V, Item 1)**

1. Total Process Input Rate (lbs/hr): 17,000 LBS./HOUR

2. Product Weight (lbs/hr): 17,000 LBS./HOUR

**C. Airborne Contaminants Emitted:**

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission <sup>2</sup> Rate per Ch. 17-2, F.A.C.	Allowable <sup>3</sup> Emission lbs/hr	Potential Emission <sup>4</sup>		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr	T/yr	
PARTICULATES	0.022	.01	13.4	13.4	2.2	0.9	
			(17-2.04)				

**D. Control Devices: (See Section V, Item 4)**

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles <sup>5</sup> Size Collected (in microns)	Basis for Efficiency (Sec. V, It <sup>5</sup> )
MIKRO-PULSAIR 100S-10-20	PARTICULATES	99.7	3-100	VENDOR INFORMATION

<sup>1</sup>See Section V, Item 2.

<sup>2</sup>Reference applicable emission standards and units (e.g., Section 17-2.05(6) Table II, E. (1), F.A.C. – 0.1 pounds per million BTU heat input)

<sup>3</sup>Calculated from operating rate and applicable standard

<sup>4</sup>Emission, if source operated without control (See Section V, Item 3)

<sup>5</sup>If Applicable

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
NONE			

\*Units Natural Gas, MMCF/hr; Fuel Oils, barrels/hr; Coal, lbs/hr

Fuel Analysis:

N/A

Percent Sulfur: \_\_\_\_\_ Percent Ash: \_\_\_\_\_

Density: \_\_\_\_\_ lbs/gal Typical Percent Nitrogen: \_\_\_\_\_

Heat Capacity: \_\_\_\_\_ BTU/lb \_\_\_\_\_ BTU/gal

Other Fuel Contaminants (which may cause air pollution): \_\_\_\_\_

F. If applicable, indicate the percent of fuel used for space heating. Annual Average \_\_\_\_\_ Maximum \_\_\_\_\_

G. Indicate liquid or solid wastes generated and method of disposal.

NONE

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: 40 ft. Stack Diameter: 2 ft.

Gas Flow Rate: 8,000 ACFM Gas Exit Temperature: AMBIENT °F.

Water Vapor Content: ≈ 5 % Velocity: 42 FPS

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type O (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq & Gas By-prod.)	Type VI (Solid By-prod.)
Lbs/hr Incinerated							

Description of Waste \_\_\_\_\_

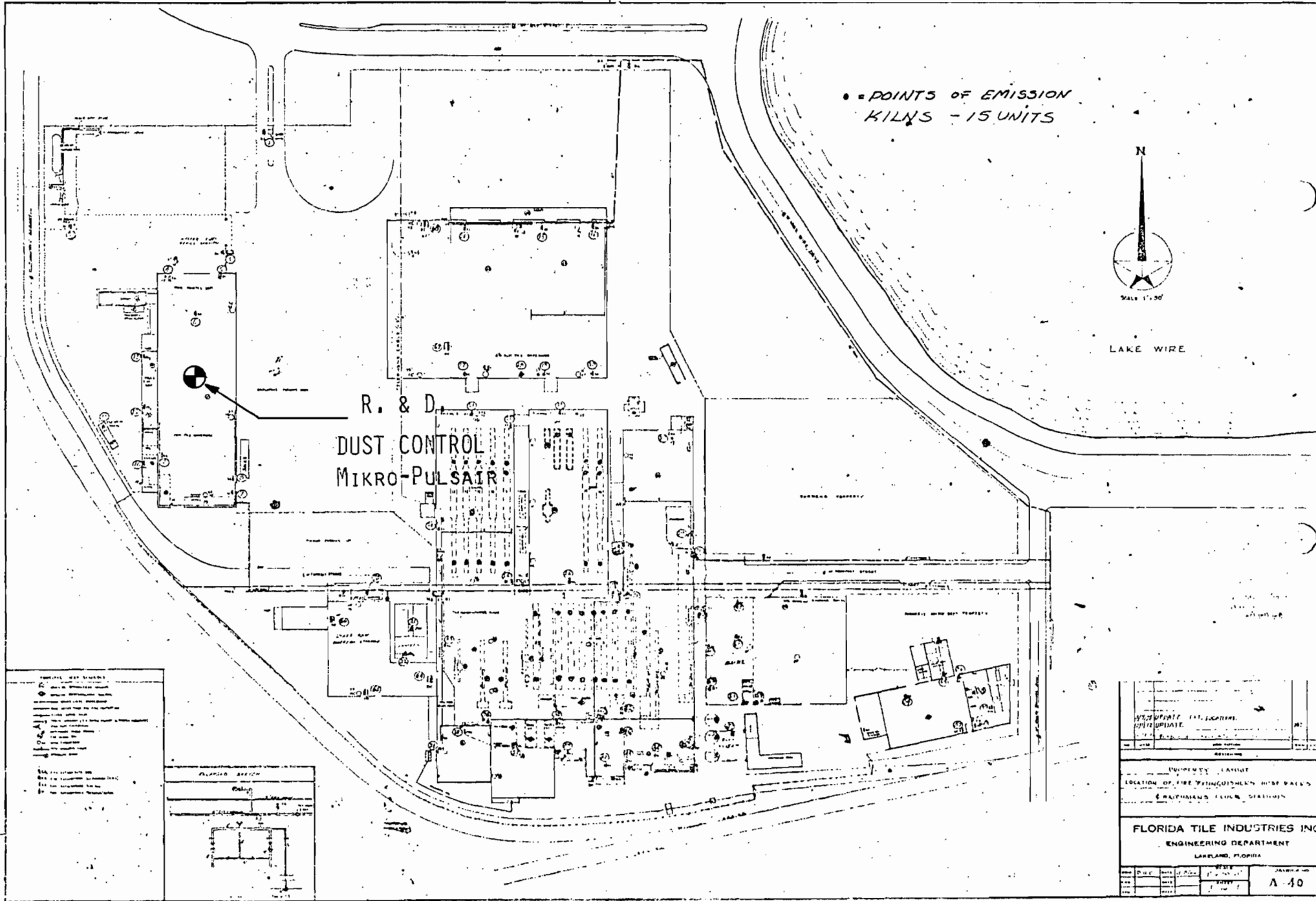
Total Weight Incinerated (lbs/hr) \_\_\_\_\_ Design Capacity (lbs/hr) \_\_\_\_\_

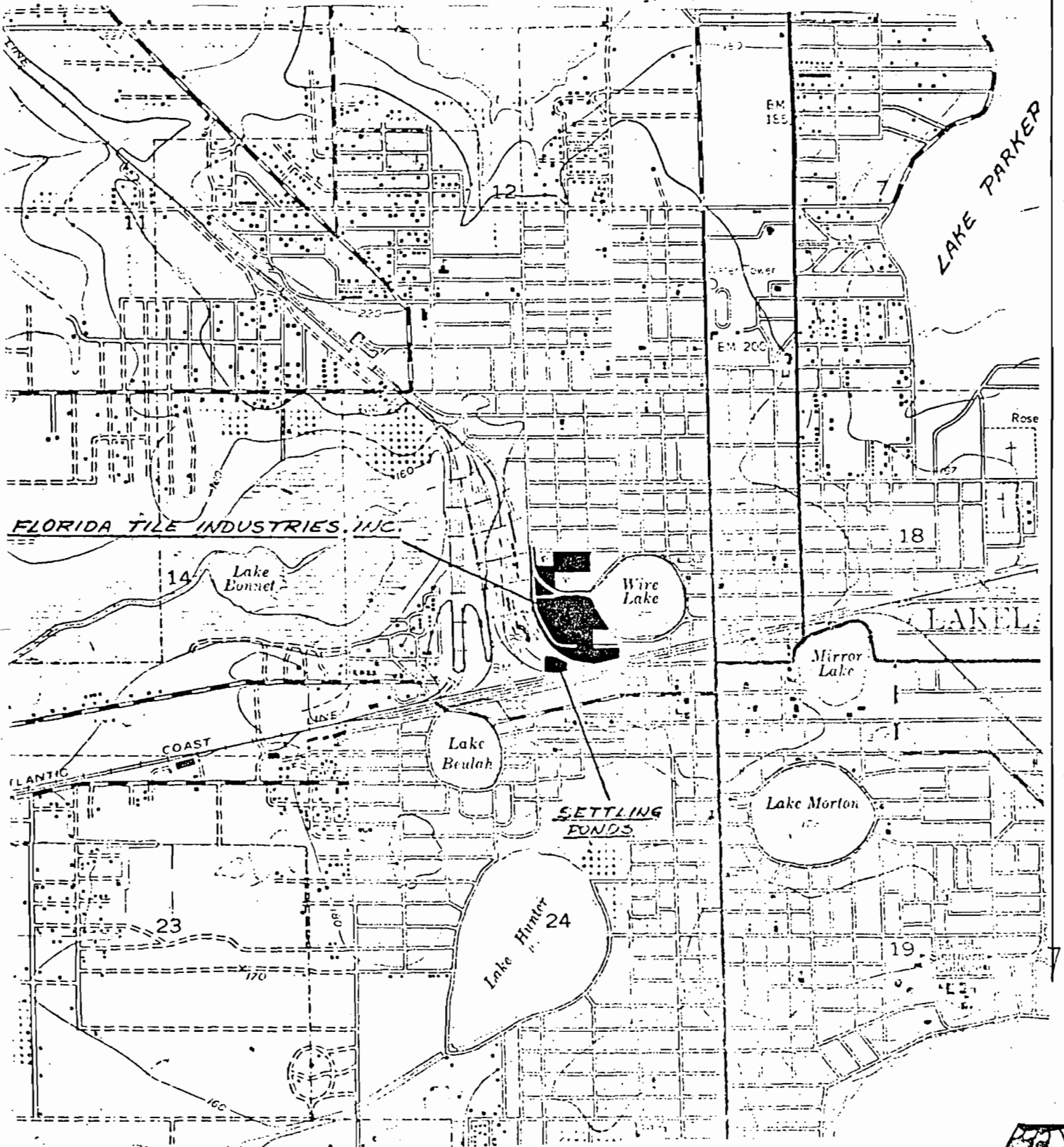
Approximate Number of Hours of Operation per day \_\_\_\_\_ days/week \_\_\_\_\_

Manufacturer \_\_\_\_\_

Date Constructed \_\_\_\_\_ Model No. \_\_\_\_\_

Best Available Copy





# Sikes

SIKES CORPORATION LAKELAND, FLORIDA 33802

*J. HARDIN*

*R&D.*

<b>PURCHASE ORDER</b>
<b>LK34833</b>
THIS NUMBER MUST APPEAR ON ALL INVOICES, B/L'S, CASES, BUNDLES, PACKING LISTS & CORRESPONDENCE.

TO MikroPul Corporation  
c/o Linder Industrial Co.  
4717 S. Florida Ave.  
Lakeland, Fl. 33803

SHIP & INVOICE TO:

<b>FLORIDA TILE DIVISION</b>	
<input checked="" type="checkbox"/>	P.O. BOX 447 - 608 PROSPECT STREET LAKELAND, FLORIDA 33802
<input type="checkbox"/>	P.O. BOX 81 - U.S. HIGHWAY 127 LAWRENCEBURG, KENTUCKY 40342

REQ. NO. 28513 VENDOR NO.

DATE	PROMISED DELIVERY DATE	DEPARTMENT	F.O.B.	SHIP VIA	TERMS		
12/02/81	3/10/82	Engineering	Shipping Point	Best Way	Net 10th		
ITEM QUANTITY		DESCRIPTION		ACCOUNT NUMBER	PRICE		
1 1		Mikro-Pulsair Dust Collector, continuous automatic type Model 100S-10-20 with hopper and legs. Unit to operate under the following conditions:  Gas Volume: 6000 ACFM (8000 ACFM Future) Temperature: Ambient Dust Loading: Inlet Estimate 6-8 Grains/Cu. Ft. Filter Rate: 5.08:1 Air to Cloth Ratio (6.77:1 Future) Product: Wall Tile Rawbody Material Application: Venting Nuisance Dust from Tile Presses Collector Efficiency: Dust load leaving Mikro-Pulsaire will not exceed 0.02 Gr's/SCF  Complete cost per Linder Inquiry E7-33 and quotation No. 66-81-365-09/00. Dated Nov. 25, 1981, copy attached.  NOTE: Approval Drawings not required.		11-143-726	\$15,906.00		
ITEM NO.	DATE REC'D	RECV. NO.	QUANTITY REC'D	NUMBER OF PACKAGES REC'D	CARRIER	WAY BILL NUMBER	<input type="checkbox"/> PREPAID
							<input type="checkbox"/> COLLECT
							<input type="checkbox"/> COMPLETE
							<input type="checkbox"/> PARTIAL

REQUISITIONER'S COPY

PURCHASE REQUISITION

INQUIRY



Complete All Copies  
Retain Requisitioner's  
Copy For Your Record  
Do Not Write In Shaded Area

P. O. Date  
12-2-81

Purchase Order No.

21534833

Vendor: <b>MikroPul Corporation</b> <b>C/O Linder Industrial</b>	Terms Of Payment	F.O.B.
	Ship Via	Promised Shipping Date
	Confirming Verbal Order To	

Item	Quantity	Unit	Description	Account No.	Unit Price	Amount
1	1		Mikro-Pulsair Dust Collector, continuous automatic type Model 100S-10-20 with hopper and legs. Unit to operate under the following conditions:	11-143-726		15906.00
			Gas Volume: 6000 ACFM (8000 ACFM Future)			
			Temperature: Ambient			
			Dust Loading: Inlet Estimate 6-8 Grains/Cu. Ft.			
			Filter Rate: 5.08:1 Air to Cloth Ratio (6.77:1 Future)			
			Product: Wall Tile Rawbody Material			
			Application: Venting Nuisance Dust from Tile Presses			
			Collector Efficiency: Dust load leaving Mikro-Pulsair will not exceed 0.02 Gr's/SCF			
			Complete cost per Linder inquiry E7-33 and quotation No. 66-81-365-09/00. Dated Nov. 25, 1981, copy attached.			
Buyer (Note: Approval Drawings not required).				TOTAL		\$

Recommended Vendors

**MikroPul Corporation (C/O Linder Industrial Co.)**  
 10 Chatham Road 4717 South Florida Ave., Lakeland) 646-5711  
 Summit, N.J. 07901 (201-273-6360)

Reason For Requisition <b>R &amp; D Pilot Lab</b>	FOR USE BY PURCHASING DEPT. ONLY:				
	Vendor	Price	Terms	F.O.B.	Delivery
Date Required (Specific) <b>March 10, 1982</b>	Deliver To				
Work Order No.					
Requisitioner	Plant Manager's Approval			Date Rec'd In Purch.	
Dept. Mgr. Approval <i>[Signature]</i>	Date <b>12-2-81</b>	Additional Approval		Date	

COPY

PURCHASE REQUISITION NO. 28513

QUOTATION



Subsidiary of

MikroPul CORPORATION

cc: Luis Calderon - MikroPul  
Terry Wheeler - Linder

Linder Inquiry E7-33

UNITED STATES FILTER CORPORATION  
10 Chatham Road • Summit, N.J. 07901 • (201) 273-6360

DATE: November 25, 1981

TO: Sikes Corporation  
Florida Tile Division  
P.O. Box 447  
Lakeland, Florida 33802  
ATTN: Mr. Bill Gandy

FOR: Lakeland, Florida Plant

NOTE: Supersedes Quotation Dated 7/27/81,  
(To: Technical Design) Requested to  
Update Pricing

YOUR REF:

ONE (1) Mikro-Pulsaire Dust Collector, continuous automatic type Model 100S-10-20 with hopper and legs. Unit to operate under the following conditions:

- Gas Volume: 6000 ACFM (8000 ACFM Future)
- Temperature: Ambient
- Dust Loading: Inlet Estimate 6-8 Grains/Cu.Ft.
- Filter Rate: 5.08:1 Air to Cloth Ratio (6.77:1 Future)
- Product: Wall Tile Rawbody Material
- Application: Venting Nuisance Dust from Tile Presses
- Collector Efficiency: Dust load leaving Mikro-Pulsaire will not exceed 0.02 Gr's/SCF

EQUIPMENT TO CONSIST OF THE FOLLOWING:

- One (1) Filter case housing constructed of 12 gauge hot rolled steel, factory assembled construction.
- One (1) Set of filter bags consisting of 100 bags, 10' long fabricated with Polyester (Dacron) 16 oz. felt filter fabric to provide a total of 1180 sq.ft. of filter area. Maximum operating temperature is 275 Degrees F. Shipped loose for field installation by others.
- One (1) Set of filter bag retainers, HRS type, and filter bag clamps to mount above filter bags. Shipped loose for field installation by others.

When ordering this material, please indicate if it is tax exempt and exemption number; or if a tax applies, the amount or percentage of the tax.

OB: Shipping Points  
Net 10th Prox. No Sales or  
ERMS: Use Taxes included.

SHIPMENT:  
(A) Time needed to submit detailed drawings for approval (when required) . . . 4 Weeks  
(B) Time needed to complete fabrication after receipt of approved drawings (when required) . 14-16 Weeks

SHIPPING WEIGHT: Listed with Pricing.

The price quoted is a firm quotation for a period of 30 days after quotation date. "The contents included in the above quotation are subject to approval by home office."

NOTE: When entering your order please return one of our prints submitted with our quote and mark it approved for orientation or mark the changes required and we will advise further.

PLEASE REPLY TO: LINDER INDUSTRIAL MACHINERY CO.  
P.O. BOX 5330  
LAKELAND, FLORIDA 33803  
PHONE: 813/646-5711

MikroPul CORPORATION  
UNITED STATES FILTER CORPORATION  
*D.L. Heckman*  
D.L. Heckman



\*\* SEE PERMIT A053-18302 FOR CALCULATIONS FOR USE OF ENTIRE PLANT AND ALL PROCESS

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

ANNUAL OPERATIONS REPORT FORM  
FOR AIR EMISSIONS SOURCES

81

For each permitted emission point, please submit a separate report for calendar year 19 \_\_\_\_ prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Bikes Corporation  
A053-18301

2. Permit Number: 608 Prospect St., Lakeland

3. Source Address: \_\_\_\_\_

4. Description of Source: Tile Dryers

II OPERATING SCHEDULE: 24 hrs/day 5 days/wk 50 wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT:

Raw Material	Input Process Weight	
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr

IV TOTAL FUEL USAGE, including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1 % S).

_____ 10 <sup>6</sup> cubic feet Natural Gas	_____ 10 <sup>3</sup> gallons _____ Oil, _____ %S
_____ 10 <sup>3</sup> gallons Propane	_____ 10 <sup>3</sup> gallons Kerosene
_____ tons Coal	_____ 10 <sup>6</sup> lb Black Liquid Solids
_____ tons Carbonaceous	_____ tons Refuse

Other (Specify type and units) \_\_\_\_\_

V EMISSION LEVEL (tons/yr):

A. \_\_\_\_\_ Particulates      \_\_\_\_\_ Sulfur Dioxide      \_\_\_\_\_ Total Reduced Sulfur  
 \_\_\_\_\_ Nitrogen Oxide      \_\_\_\_\_ Carbon Monoxide      \_\_\_\_\_ Fluoride  
 \_\_\_\_\_ Hydrocarbon      Other (Specify type and units) \_\_\_\_\_

B. Method of calculating emission rates (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

VI CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

*C. Hardin*  
SIGNATURE OF OWNER OR  
AUTHORIZED REPRESENTATIVE

C.M. HARDIN  
TYPED NAME AND TITLE

FEBRUARY 26, 1982  
DATE

BEST AVAILABLE COPY

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

ANNUAL OPERATIONS REPORT FORM  
FOR AIR EMISSIONS SOURCES

81

For each permitted emission point, please submit a separate report for calendar year 19 \_\_\_\_ prior to March 1st of the following year.

I GENERAL INFORMATION

- 1. Source Name: Sikes Corporation  
A053-18302
- 2. Permit Number: \_\_\_\_\_
- 3. Source Address: 608 Prospect St., Lakeland
- 4. Description of Source: Tile Kilns (15) for Wall Tile

II OPERATING SCHEDULE: 24 hrs/day 5 days/wk 50 wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT:

Raw Material	Input Process Weight	tons/yr
_____	_____	_____
** <u>381 x 10<sup>6</sup> FT.<sup>3</sup> NATURAL GAS</u>	_____	_____
_____	_____	_____
_____	_____	_____

IV TOTAL FUEL USAGE, including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1 % S).

- \*\* 381 10<sup>6</sup> cubic feet Natural Gas \_\_\_\_\_ 10<sup>3</sup> gallons \_\_\_\_\_ Oil, \_\_\_\_\_ %S
- \_\_\_\_\_ 10<sup>3</sup> gallons Propane \_\_\_\_\_ 10<sup>3</sup> gallons Kerosene
- \_\_\_\_\_ tons Coal \_\_\_\_\_ 10<sup>6</sup> lb Black Liquid Solids
- \_\_\_\_\_ tons Carbonaceous \_\_\_\_\_ tons Refuse
- Other (Specify type and units) \_\_\_\_\_

V EMISSION LEVEL (tons/yr):

- A. 3.42 Particulates 0.11 Sulfur Dioxide \_\_\_\_\_ Total Reduced Sulfur
- 38.1 Nitrogen Oxide 3.24 Carbon Monoxide \_\_\_\_\_ Fluoride
- 0.57 Hydrocarbon Other (Specify type and units) \_\_\_\_\_

B. Method of calculating emission rates (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

VI CERTIFICATION:

EMISSION FACTORS TAKEN FROM AP 42

I hereby certify that the information given in this report is correct to the best of my knowledge.

*C. Hardin*  
SIGNATURE OF OWNER OR  
AUTHORIZED REPRESENTATIVE

FEBRUARY 26, 1982  
DATE

C.M. HARDIN  
TYPED NAME AND TITLE

\*\* FOR ENTIRE PLANT  
(ALL PROCESSES)

ANNUAL OPERATIONS REPORT FORM  
FOR AIR EMISSIONS SOURCES

81

For each permitted emission point, please submit a separate report for calendar year 19 \_\_\_\_ prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Sikes Corporation  
A053-18303

2. Permit Number: \_\_\_\_\_

3. Source Address: 608 Prospect St., Lakeland

4. Description of Source: Batching System Baghouse  
MICRO-PULSAIR DUST COLLECTORS

II OPERATING SCHEDULE: 16 hrs/day 5 days/wk 50 wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT:

Raw Material	Input Process Weight	
<u>TALC, BALL CLAY</u>	_____	tons/yr
<u>WALLASTONITE</u>	_____	tons/yr
<u>WHITING, SPB-11 (SECRET BLEND)</u>	<u>263,000 #/DAY</u>	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr

IV TOTAL FUEL USAGE, including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1 % S).

N/A 10<sup>6</sup> cubic feet Natural Gas \_\_\_\_\_ 10<sup>3</sup> gallons \_\_\_\_\_ Oil, \_\_\_\_\_ %S

\_\_\_\_\_ 10<sup>3</sup> gallons Propane \_\_\_\_\_ 10<sup>3</sup> gallons Kerosene

\_\_\_\_\_ tons Coal \_\_\_\_\_ 10<sup>6</sup> lb Black Liquid Solids

\_\_\_\_\_ tons Carbonaceous \_\_\_\_\_ tons Refuse

Other (Specify type and units) \_\_\_\_\_

V EMISSION LEVEL (tons/yr):

A. 39.45 Particulates \_\_\_\_\_ Sulfur Dioxide \_\_\_\_\_ Total Reduced Sulfur

\_\_\_\_\_ Nitrogen Oxide \_\_\_\_\_ Carbon Monoxide \_\_\_\_\_ Fluoride

\_\_\_\_\_ Hydrocarbon \_\_\_\_\_ Other (Specify type and units) \_\_\_\_\_

B. Method of calculating emission rates (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

VI CERTIFICATION:

EMISSION FACTORS DRAWN FROM AP 42

I hereby certify that the information given in this report is correct to the best of my knowledge.

C. Hardin  
SIGNATURE OF OWNER OR  
AUTHORIZED REPRESENTATIVE

C.M. HARDIN  
TYPED NAME AND TITLE

FEBRUARY 26, 1982  
DATE

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
ANNUAL OPERATIONS REPORT FORM  
FOR AIR EMISSIONS SOURCES

81

For each permitted emission point, please submit a separate report for calendar year 19 \_\_\_\_ prior to March 1st of the following year.

I GENERAL INFORMATION

Sikes Corporation  
1. Source Name: A053 18298  
2. Permit Number: \_\_\_\_\_  
3. Source Address: 608 Prospect St., Lakeland

4. Description of Source: Tile Glazing  
8 UNITS, BINKS # 101 CAPS, INTERNAL BOOTH Baffles

II OPERATING SCHEDULE: \_\_\_\_\_ hrs/day \_\_\_\_\_ days/wk \_\_\_\_\_ wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT:

Raw Material	Input Process Weight	
GLAZE COMPOUNDS ONLY:		tons/yr
FRIT, FELDSPAR, BALL CLAY	679,000 #/DAY	tons/yr
SILICA, ALUMINA, ZINC OXIDE,		tons/yr
ZIRCONIUM, SILICATE,		tons/yr
STAINS,	22,633 #/DAY	tons/yr

IV TOTAL FUEL USAGE, including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1 % S).

N/A 10<sup>6</sup> cubic feet Natural Gas \_\_\_\_\_ 10<sup>3</sup> gallons \_\_\_\_\_ Oil, \_\_\_\_\_ %S  
 \_\_\_\_\_ 10<sup>3</sup> gallons Propane \_\_\_\_\_ 10<sup>3</sup> gallons Kerosene  
 \_\_\_\_\_ tons Coal \_\_\_\_\_ 10<sup>6</sup> lb Black Liquid Solids  
 \_\_\_\_\_ tons Carbonaceous \_\_\_\_\_ tons Refuse

Other (Specify type and units) \_\_\_\_\_

V EMISSION LEVEL (tons/yr):

A. 101.85 Particulates AND 3.39 Sulfur Dioxide \_\_\_\_\_ Total Reduced Sulfur  
 \_\_\_\_\_ Nitrogen Oxide \_\_\_\_\_ Carbon Monoxide \_\_\_\_\_ Fluoride  
 \_\_\_\_\_ Hydrocarbon Other (Specify type and units) \_\_\_\_\_

B. Method of calculating emission rates (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

VI CERTIFICATION:

EMISSION FACTORS TAKEN FROM AP 42

I hereby certify that the information given in this report is correct to the best of my knowledge.

C. Hardin  
SIGNATURE OF OWNER OR  
AUTHORIZED REPRESENTATIVE  
FEBRUARY 26, 1982  
DATE

C.M. HARDIN  
TYPED NAME AND TITLE

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

**ANNUAL OPERATIONS REPORT FORM  
FOR AIR EMISSIONS SOURCES**

81

For each permitted emission point, please submit a separate report for calendar year 19 \_\_\_\_ prior to March 1st of the following year.

**I GENERAL INFORMATION**

Sikes Corporation  
 1. Source Name: A053-18299  
 2. Permit Number: \_\_\_\_\_  
 3. Source Address: 608 Prospect St., Lakeland

4. Description of Source: Tile Pressing with 2 baghouses  
PANGBORN AND W.W. SLY DUST COLLECTORS

II OPERATING SCHEDULE: 16 hrs/day 5 days/wk 50 wks/yr

**III RAW MATERIAL INPUT PROCESS WEIGHT:**

Raw Material	Input Process Weight	
<u>TALC, BALL CLAY</u>	_____	tons/yr
<u>WALLASTONITE</u>	_____	tons/yr
<u>WHITING</u>	_____	tons/yr
<u>SPB-11 (SECRET BLEND)</u>	<u>263,000 #/DAY</u>	tons/yr
_____	_____	tons/yr

**IV TOTAL FUEL USAGE, including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1 % S).**

N/A 10<sup>6</sup> cubic feet Natural Gas \_\_\_\_\_ 10<sup>3</sup> gallons \_\_\_\_\_ Oil, \_\_\_\_\_ %S  
 \_\_\_\_\_ 10<sup>3</sup> gallons Propane \_\_\_\_\_ 10<sup>3</sup> gallons Kerosene  
 \_\_\_\_\_ tons Coal \_\_\_\_\_ 10<sup>6</sup> lb Black Liquid Solids  
 \_\_\_\_\_ tons Carbonaceous \_\_\_\_\_ tons Refuse

Other (Specify type and units) \_\_\_\_\_

**V EMISSION LEVEL (tons/yr):**

A. 39.45 Particulates \_\_\_\_\_ Sulfur Dioxide \_\_\_\_\_ Total Reduced Sulfur  
 \_\_\_\_\_ Nitrogen Oxide \_\_\_\_\_ Carbon Monoxide \_\_\_\_\_ Fluoride  
 \_\_\_\_\_ Hydrocarbon Other (Specify type and units) \_\_\_\_\_

B. Method of calculating emission rates (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

**VI CERTIFICATION:**

EMISSION FACTORS DRAWN FROM AP42

I hereby certify that the information given in this report is correct to the best of my knowledge.

*C. Hardin*  
 SIGNATURE OF OWNER OR  
 AUTHORIZED REPRESENTATIVE

C.M. HARDIN  
 TYPED NAME AND TITLE

FEBRUARY 26, 1982  
 DATE

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
ANNUAL OPERATIONS REPORT FORM  
FOR AIR EMISSIONS SOURCES

81

For each permitted emission point, please submit a separate report for calendar year 19 \_\_\_\_ prior to March 1st of the following year.

I GENERAL INFORMATION

1. Source Name: Sikes Corporation  
A053-18300

2. Permit Number: \_\_\_\_\_

3. Source Address: 608 Prospect St., Lakeland

4. Description of Source: 3 Storage Silos  
MICRO-PULSAIR DUST COLLECTORS

II OPERATING SCHEDULE: 8 hrs/day 5 days/wk 50 wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT:

Raw Material	Input Process Weight	
<u>SPD-11 (SECRET BLEND)</u>	_____	tons/yr
<u>NEW YORK TALC, BALL CLAY</u>	<u>234,000 #/DAY</u>	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr

IV TOTAL FUEL USAGE, including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1 % S).

N/A 10<sup>6</sup> cubic feet Natural Gas \_\_\_\_\_ 10<sup>3</sup> gallons \_\_\_\_\_ Oil, \_\_\_\_\_ %S

\_\_\_\_\_ 10<sup>3</sup> gallons Propane \_\_\_\_\_ 10<sup>3</sup> gallons Kerosene

\_\_\_\_\_ tons Coal \_\_\_\_\_ 10<sup>6</sup> lb Black Liquid Solids

\_\_\_\_\_ tons Carbonaceous \_\_\_\_\_ tons Refuse

Other (Specify type and units) \_\_\_\_\_

V EMISSION LEVEL (tons/yr):

A. 35.1 Particulates \_\_\_\_\_ Sulfur Dioxide \_\_\_\_\_ Total Reduced Sulfur

\_\_\_\_\_ Nitrogen Oxide \_\_\_\_\_ Carbon Monoxide \_\_\_\_\_ Fluoride

\_\_\_\_\_ Hydrocarbon \_\_\_\_\_ Other (Specify type and units) \_\_\_\_\_

B. Method of calculating emission rates (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

VI CERTIFICATION:

EMISSION FACTORS DRAWN FROM AP42

I hereby certify that the information given in this report is correct to the best of my knowledge.

C. Hardin  
SIGNATURE OF OWNER OR  
AUTHORIZED REPRESENTATIVE

C.M.HARDIN  
TYPED NAME AND TITLE

FEBRUARY 26, 1982  
DATE

MAR 15 1982  
SOUTHERN FLORIDA  
TALLAHASSEE

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

**ANNUAL OPERATIONS REPORT FORM  
FOR AIR EMISSIONS SOURCES**

81

For each permitted emission point, please submit a separate report for calendar year 19 81 prior to March 1st of the following year.

**I GENERAL INFORMATION**

1. Source Name: Sikes Corporation  
A053-18297

2. Permit Number: \_\_\_\_\_

3. Source Address: 608 Prospect St., Lakeland

4. Description of Source: Simpson Mixers - 3 Dust Collectors

**II OPERATING SCHEDULE:** 16 hrs/day 5 days/wk 50 wks/yr

**III RAW MATERIAL INPUT PROCESS WEIGHT:**

Raw Material	Input Process Weight	
TALC, BALL CLAY		tons/yr
WALLASTONITE		tons/yr
WHITING, SPD-11 (SECRET BLEND)	263,000 #/DAY	tons/yr
_____		tons/yr
_____		tons/yr

**IV TOTAL FUEL USAGE, including standby fuels. If fuel is oil, specify type and sulfur content (e.g., No. 6 oil with 1 % S).**

N/A 10<sup>6</sup> cubic feet Natural Gas \_\_\_\_\_ 10<sup>3</sup> gallons \_\_\_\_\_ Oil, \_\_\_\_\_ %S

\_\_\_\_\_ 10<sup>3</sup> gallons Propane \_\_\_\_\_ 10<sup>3</sup> gallons Kerosene

\_\_\_\_\_ tons Coal \_\_\_\_\_ 10<sup>6</sup> lb Black Liquid Solids

\_\_\_\_\_ tons Carbonaceous \_\_\_\_\_ tons Refuse

Other (Specify type and units) \_\_\_\_\_

**V EMISSION LEVEL (tons/yr):**

A. 39.45 Particulates \_\_\_\_\_ Sulfur Dioxide \_\_\_\_\_ Total Reduced Sulfur

\_\_\_\_\_ Nitrogen Oxide \_\_\_\_\_ Carbon Monoxide \_\_\_\_\_ Fluoride

\_\_\_\_\_ Hydrocarbon \_\_\_\_\_ Other (Specify type and units) \_\_\_\_\_

B. Method of calculating emission rates (e.g., use of fuel and materials balance, emission factors drawn from AP 42, etc.)

**VI CERTIFICATION:**

EMISSION FACTORS TAKEN FROM AP 42

I hereby certify that the information given in this report is correct to the best of my knowledge.

C. Hardin  
SIGNATURE OF OWNER OR  
AUTHORIZED REPRESENTATIVE

C.M. HARDIN  
TYPED NAME AND TITLE

FEBRUARY 26, 1982  
DATE

P 408 530 359

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

PS Form 3800, Feb. 1982

Sent to	
Wm. R. Boakes	
Street and No.	
P. O. Box 447	
P.O., State and ZIP Code	
Lakeland, FL 33802	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	
10/3/83	

PS Form 3811, Jan. 1979

SENDER: Complete items 1, 2, and 3. Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)  
 Show to whom and date delivered.....¢  
 Show to whom, date and address of delivery.....¢  
 RESTRICTED DELIVERY  
 Show to whom and date delivered.....¢  
 RESTRICTED DELIVERY.  
 Show to whom, date, and address of delivery.\$

(CONSULT POSTMASTER FOR FEES)


2. ARTICLE ADDRESSED TO:  
 William R. Boakes  
 P. O. Box 447  
 Lakeland, FL33802

3. ARTICLE DESCRIPTION:  

REGISTERED NO.	CERTIFIED NO.	INSURED NO.
	P408530359	

 (Always obtain signature of addressee or agent)

I have received the article described above.  
 SIGNATURE  Addressee  Authorized agent

4. DATE OF DELIVERY: OCT - 3 1983 POSTMARK: 

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE: \_\_\_\_\_ CLERK'S INITIALS

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL



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

September 29, 1983

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

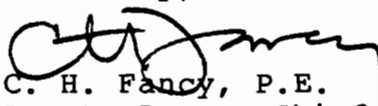
Mr. William R. Boakes  
Vice President R & D Engineering  
Florida Tile Division, Sikes Corporation  
Post Office Box 447  
Lakeland, Florida 33802

Dear Mr. Boakes:

Enclosed is Permit Number AC 53-70548, dated September 28, 1983, to Florida Tile Division, Sikes Corporation, issued pursuant to Section 403, Florida Statutes.

Acceptance of this permit constitutes notice and agreement that the department will periodically review this permit for compliance, including site inspections where applicable, and may initiate enforcement actions for violation of the conditions and requirements thereof.

Sincerely,

  
C. H. Fancy, P.E.  
Deputy Bureau Chief  
Bureau of Air Quality  
Management

CHF/bjm

Enclosure

cc: Mr. Robert E. Wallace, III, Environmental Engineering  
Consultants  
Mr. Dan Williams, DER Southwest District

Final Determination

Florida Tile Division Sikes Corporation  
Ceramic Tile Manufacture  
Lakeland, Polk County

Permit Number  
AC 53-70548

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

September 28, 1983

Final Determination  
Florida Tile Division Sikes Corporation  
AC 53-70548

Florida Tile Division Sikes Corporation's construction permit application for the construction of a Mikro-Pulsaire baghouse and two tile presses at the existing site in Lakeland has been reviewed by the Bureau of Air Quality Management. Public notice of the department's intent to issue a permit was published in The Ledger on August 23, 1983. Copies of the preliminary determination were available for public inspection at the FDER's Southwest District in Tampa and the Bureau of Air Quality Management in Tallahassee.

There were no comments as a result of the public notice period.

The final action of the department will be to issue the permit as proposed.

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 Tile Division , Sikes  
Corporation  
P. O. Box 447  
Lakeland, Florida 33802

Permit Number: AC 53-70548  
Date of Issue:  
Expiration Date: March 1, 1984  
County: Polk  
Latitude/Longitude: 28° 02' 45"  
81° 57' 45"  
Project: Ceramic Tile  
Manufacture

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 installation of a Mikro-Pulsaire baghouse to control  
particulate emissions from the existing Mixer No. 1, two new tile  
presses, two existing tile presses, and the existing glazing lines  
1 and 2 located at Sikes Corporation's existing site that is in  
Lakeland, Polk County, Florida.

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

**Attachment:**

1. Application to Construct Air Pollution Sources, DER Form  
17-1.122(16), received on June 6, 1983.

PERMITTEE:  
Florida Tile Division,  
Sikes Corporation

I. D. Number:  
Permit Number: AC 53-70548  
Date of Issue:  
Expiration Date: March 1, 1984

**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 therefor 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 Tile Division  
Sikes Corporation

**I. D. Number:**

Permit Number: AC 53-70548

Date of Issue:

Expiration Date: March 1, 1984

**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 Tile Division,  
Sikes Corporation

**I. D. Number:**

**Permit Number:** AC 53-70548

**Date of Issue:**

**Expiration Date:** March 1, 1984

**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:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) 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 Tile Division  
Sikes Corporation

**I. D. Number:**

Permit Number: AC 53-70548  
Date of Issue:  
Expiration Date: March 1, 1984

**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 emissions from the Mikro-Pulsaire baghouse are 10.3 pounds per hour.
2. The subject ceramic tile plant is allowed to operate up to 24 hours per day, 7 days per week, 52 weeks per year or 8,760 hours per year.
3. The visible emissions from the Mikro-Pulsaire baghouse shall not be greater than 5 percent opacity by DER Method 9. If the emissions are greater than 5 percent opacity, compliance with the requirements of specific condition #1 shall be demonstrated by testing in accordance with DER Method 5.



**PERMITTEE:**

Florida Tile Division  
Sikes Corporation

**I. D. Number:**

**Permit/Number:** AC 53-70548

**Date of Issue:**

**Expiration Date:** March 1, 1984

**SPECIFIC CONDITIONS:**

4. Reasonable precautions to prevent fugitive particulate emissions during construction shall be taken by the permittee.
5. The permittee shall demonstrate compliance with the conditions of this construction permit and submit a complete application for an operating permit to the Southwest District prior to 90 days before the expiration date of this permit. The applicant may continue to operate in compliance with all terms of this construction permit until its expiration or until issuance of an operating permit.

Issued this 28 day of September 1983

**STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL REGULATION**

  
\_\_\_\_\_  
VICTORIA J. TSCHINKEL, Secretary

\_\_\_ pages attached.

State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For Routing To District Offices And/Or To Other Than The Addressee		
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
From: _____	Date: _____	
Reply Optional [ ]	Reply Required [ ]	Info. Only [ ]
Date Due: _____	Date Due: _____	

TO: Victoria J. Tschinkel  
FROM: Clair Fancy *Clair Fancy*  
DATE: September 28, 1983  
SUBJ: Approval of Attached Air Construction Permit

RECEIVED  
SEP 28 1983

Office of the Secretary

Attached for your approval and signature is one Air Construction Permit for which the applicant is Florida Tile Division Sikes Corporation. The construction proposed is a Mikro-Pulsaire baghouse and two tile presses at the applicant's existing facility in Lakeland, Polk County, Florida.

Day 90, after which the permit would be issued by default, is October 3, 1983.

The Bureau recommends your approval and signature.

CF/pa

Attachment



August 30, 1983

DER  
SEP 02 1983  
BAQM

Mr. Bill Thomas  
Bureau of Air Quality Management  
Department of Environmental Regulation  
Twin Towers Office Building  
2600 Blairstone Road  
Tallahassee, Florida 32301-8241

Subject: Application #AC53-70548

Dear Mr. Thomas:

Enclosed is the Affidavit of Publication for the Notice of Proposed Agency Action as requested.

You will note the notice was published August 19, 1983.

Your instruction letter states the department must be provided with proof of publication within seven days of the date the notice is published. However, Florida Tile received the affidavit on August 29, 1983, ten days after publishing.

Hopefully this time difference will not be a problem.

Sincerely,

Bill J. Gandy  
Manager  
Engineering Services

kw

Enclosure

BEST AVAILABLE COPY

# AFFIDAVIT OF PUBLICATION

## THE LEDGER

Lakeland, Polk County, Florida

Case No .....

Attach Notice Here

STATE OF FLORIDA )  
COUNTY OF POLK )

Before the undersigned authority personally appeared Walter Garris, who on oath says that he is Controller of The Ledger, a daily newspaper published at Lakeland in Polk County, Florida; that the attached copy of advertisement, being a .....

.....Notice.....  
.....  
in the matter of .....  
.....Proposed Agency Action.....  
.....  
in the .....  
.....  
Court, was published in said newspaper in the issues of .....  
.....August 19, 1983.....  
.....

**NOTICE OF PROPOSED AGENCY ACTION**  
The Department of Environmental Regulation gives notice of its intent to issue a permit to Florida Tile Division, Inc. for the installation of a phosphate-tape tile presses, and glazing lines 1 and 2 at their existing facility in Lakeland, Polk County, Florida. A determination of Best Available Control Technology (BACT) was not required.  
A person who is substantially affected by the Department's proposed permitting decision may request a hearing in accordance with Section 120.57, Florida Statutes, and Chapters 171 and 285, Florida Administrative Code. The request for hearing must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32301, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period shall constitute a waiver of any right such person may have to request such a hearing under Section 120.57, Florida Statutes.  
The applicable technical evaluation and supporting data are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the following locations:  
DER Bureau of Air Quality Management  
2600 Blair Stone Road  
Tallahassee, FL 32301  
DER Southwest District  
7601 Highway 301 North  
Tampa, Florida 33610  
Comments on this notice shall be submitted in writing to Ed Thomas of Tallahassee office within thirty (30) days of this notice.  
C394 - 8-19-1983

Affiant further says that said The Ledger is a newspaper published at Lakeland, in said Polk County, Florida, and that the said newspaper has heretofore been continuously published in said Polk County, Florida, daily, and has been entered as second class matter at the postoffice in Lakeland, in said Polk County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

Signed Walter Garris  
Controller

Sworn to and subscribed before me this ..... 23rd .....  
day of ..... AUGUST ..... A.D. 19 83 .....

(Seal) Barbara Shugart  
Notary Public  
NOTARY PUBLIC, STATE OF FLORIDA  
MY COMMISSION EXPIRES NOV 11, 1986  
BONDED THRU GENERAL INSURANCE UNO  
My Commission Expires .....

P 408 530 384

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to  
**William R. Boakes**  
 Street and No. **FL Tile Corp**  
**P.O. Box 447**  
 P.O., State and ZIP Code  
**Lakeland, FL 33802**

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	

PS Form 3800, Feb. 1982

PS Form 3811, Jan. 1979

● SENDER: Complete items 1, 2, and 3. Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)  
 Show to whom and date delivered.....¢  
 Show to whom, date and address of delivery.....¢  
 RESTRICTED DELIVERY  
 Show to whom and date delivered.....¢  
 RESTRICTED DELIVERY.  
 Show to whom, date, and address of delivery.\$ \_\_\_\_\_

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:  
**William R. Boakes**  
**Florida Tile Corp**  
**P.O. Box 447**  
**Lakeland, FL 33802**

3. ARTICLE DESCRIPTION:  
 REGISTERED NO. CERTIFIED NO. INSURED NO.  
 \_\_\_\_\_ **P408530384** \_\_\_\_\_  
 (Always obtain signature of addressee or agent)

I have received the article described above.  
 SIGNATURE  Addressee  Authorized agent  
**DBrockstedt**

4. DATE OF DELIVERY POSTMARK  
**AUG 8 1983**

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE: \_\_\_\_\_  
 INITIALS \_\_\_\_\_

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL



☆GPO : 1979-300-469

*Subj file*

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

August 4, 1983

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. William R. Boakes  
Vice President R & D Engineering  
Florida Tile Division Sikes Corporation  
Post Office Box 447  
Lakeland, Florida 33802

Dear Mr. Boakes:

Attached is one copy of the Preliminary Determination and proposed permit for the installation of a baghouse, four tile presses, and glazing lines 1 and 2 at your existing facility in Lakeland, Polk County, Florida.


Before final action can be taken on your proposed permit, you are required by Florida Administrative Code Rule 17-1.62(3) to publish the attached Notice of Proposed Agency Action in the legal advertising section of a newspaper of general circulation in Polk County no later than fourteen days after receipt of this letter. The department must be provided with proof of publication within seven days of the date the notice is published. The permit cannot be revised until the public has an opportunity to comment on it. Failure to publish the notice may be grounds for denial of the permit.

The Preliminary Determination and proposed permit constitutes a proposed action of the department and is subject to administrative hearing under the provisions of Chapter 120, Florida Statutes, if requested within fourteen days from receipt of this letter. Any petition for hearing must comply with the requirements of Florida Administrative Code Rule 28-5.201 and be filed with the Office of General Counsel, Florida Department of Environmental Regulation, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32301. Failure to file a request for hearing within fourteen days shall constitute a waiver of your right to a hearing. Filing is deemed complete upon receipt by the Office of General Counsel.

Mr. William R. Boakes  
August 4, 1983  
Page Two

Please submit, in writing, any comments which you wish to have considered concerning the department's proposed action to Mr. Bill Thomas of the Bureau of Air Quality Management.

Sincerely,

  
for C. H. Fancy, P.E.  
Deputy Chief  
Bureau of Air Quality  
Management

CF/pa

Attachments

cc: Mr. Robert E. Wallace, III, Environmental Engineering  
Consultants  
Mr. Dan Williams, DER Southwest District

## NOTICE OF PROPOSED AGENCY ACTION

The Department of Environmental Regulation gives notice of its intent to issue a permit to Florida Tile Division Sikes Corporation for the installation of a baghouse, four tile preses, and glazing lines 1 and 2 at their existing facility in Lakeland, Polk County, Florida. A determination of Best Available Control Technology (BACT) was not required.

A person who is substantially affected by the Department's proposed permitting decision may request a hearing in accordance with Section 120.57, Florida Statutes, and Chapters 17-1 and 28-5, Florida Administrative Code. The request for hearing must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32301, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period shall constitute a waiver of any right such person may have to request a hearing under Section 120.57, Florida Statutes.

The application, technical evaluation and department intent are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the following locations:

DER Bureau of Air Quality Management  
2600 Blair Stone Road  
Tallahassee, FL 32301

DER Southwest District  
7601 Highway 301 North  
Tampa, Florida 33610

Comments on this action shall be submitted in writing to Bill Thomas of Tallahassee office within thirty (30) days of this notice.



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.

Preliminary Determination  
and  
Technical Evaluation

Florida Tile Division Sikes Corporation  
Ceramic Tile Manufacture  
Lakeland, Polk County

Permit Number:

AC 53-70548

July 11, 1983

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

Preliminary Determination

and

Technical Evaluation  
(AC 53-70548)

CONTENTS

<u>Section</u>	<u>Page</u>
I. Applicant and Source Location	1
II. Project and Process Descriptions	1
III. Air Emissions and Control	1
IV. Rule Applicability	1-2
V. Conclusions	2

## I. Applicant and Source Location

### A. Applicant

Florida Tile Division Sikes Corporation  
1 Sikes Boulevard  
P. O. Box 447  
Lakeland, Florida 33802

### B. Source Location

The proposed construction will occur at the corporation's existing site in Lakeland, Florida. The UTM coordinates are 17-405.2 km East and 3102.4 km North.

## II. Project and Process Descriptions

The project consists of the installation of a baghouse for controlling emissions from Mixer No. 1, four tile presses, and glazing lines 1 and 2 (see attached flow diagram). Currently, a Panghorn baghouse (Permit No. AO 53-18299) controls emissions from Mixer No. 1, two tile presses, and trim presses. Also, an Aerodyne baghouse, which has not been permitted, assists in controlling emissions from the two existing tile presses.

With the installation of the new Mikro-Pulsaire baghouse, two additional tile presses will be installed. The emissions from Mix No. 1, the two existing tile presses, and the glazing lines 1 and 2 will be diverted to the new baghouse. Therefore, the Panghorn baghouse will only control emissions from the trim presses. The Aerodyne baghouse will be shut down.

## III. Air Emissions and Control

Mikro-Pulsaire baghouses (Model No. 3205-10-20) will be used for particulate emissions control. The manufacturer guarantees 0.02 grain per standard cubic feet (SCF) outlet concentration when inlet grain loading is in the range of 4 to 10 grains per SCF. If 5 grains per SCF is used as inlet grain loading, the efficiency of the baghouse will be 99.6 percent, and the maximum emission rate in pounds per hour will be 4.38.

## IV. Rule Applicability

The proposed project is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code (FAC).

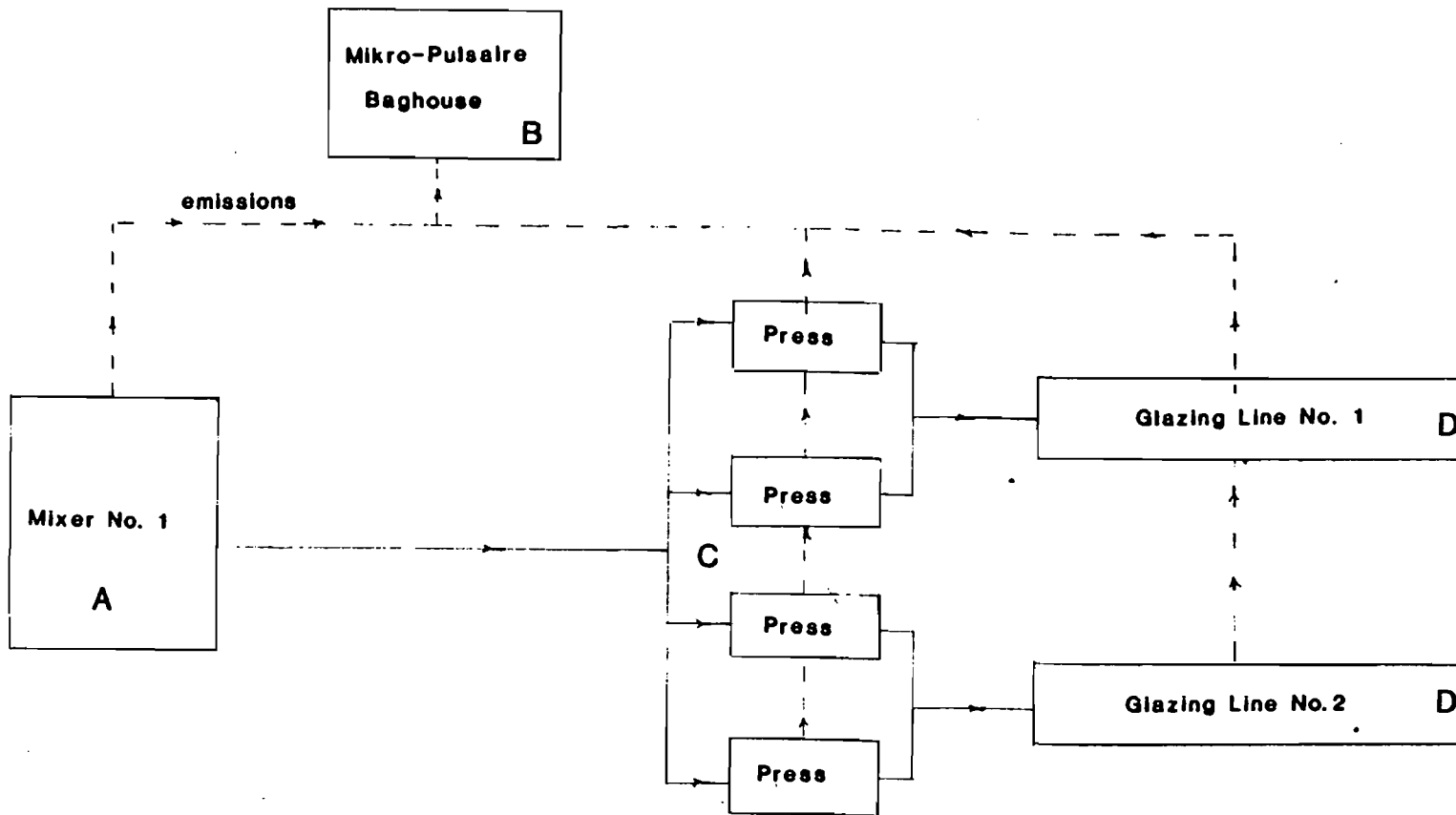
The installation of two new tile presses and the baghouse is a minor modification to a major facility located in an attainment area for particulate. The maximum particulate emissions from the

proposed baghouse will be 15.99 ton per year which is less than 25 tons per year, the applicable significant emission rate for PM emissions in Table 500-2 of Rule 17-2.500. Therefore, the proposed project is exempt from Rule 2.500, Prevention of Significant Deterioration.

#### V. Conclusions

Based on an evaluation of the application, the Department believes that compliance with applicable state air regulations will be achieved provided certain specific conditions are met.

The general and specific conditions are listed in the attached draft State permit (AC 53-70548).



**FLOW DIAGRAM**

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 Tile Division , Sikes  
Corporation  
P. O. Box 447  
Lakeland, Florida 33802

Permit Number: AC 53-70548  
Date of Issue:  
Expiration Date: March 1, 1984  
County: Polk  
Latitude/Longitude: 28° 02' 45"  
81° 57' 45"  
Project: Ceramic Tile  
Manufacture

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 installation of a Mikro-Pulsaire baghouse to control  
particulate emissions from the existing Mixer No. 1, two new tile  
presses, two existing tile presses, and the existing glazing lines  
1 and 2 located at Sikes Corporation's existing site that is in  
Lakeland, Polk County, Florida.

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

**Attachment:**

1. Application to Construct Air Pollution Sources, DER Form  
17-1.122(16), received on June 6, 1983.

**PERMITTEE:**  
Florida Tile Division,  
Sikes Corporation

**I. D. Number:**  
**Permit Number:** AC 53-70548  
**Date of Issue:**  
**Expiration Date:** March 1, 1984

**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 therefor 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 Tile Division  
Sikes Corporation

**I. D. Number:**

Permit Number: AC 53-70548  
Date of Issue:  
Expiration Date: March 1, 1984

**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 Tile Division,  
Sikes Corporation

I. D. Number:

Permit Number: AC 53-70548

Date of Issue:

Expiration Date: March 1, 1984

**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:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) 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 Tile Division  
Sikes Corporation

**I. D. Number:**

Permit Number: AC 53-70548  
Date of Issue:  
Expiration Date: March 1, 1984

**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 emissions in pounds per hour from the Mikro-Pulsaire baghouse is 10.32.
2. The subject ceramic tile plant is allowed to operate up to 24 hours per day, 7 days per week, 52 weeks per year or 8,760 hours per year.
3. The visible emissions from the Mikro-Pulsaire baghouse shall not be greater than 5 percent opacity by using DER Method 9. If the emissions greater than 5 percent opacity, compliance with particulate emissions is required in specific condition No. 1. Then the applicant shall conduct a performance test in

**PERMITTEE:**

Florida Tile Division  
Sikes Corporation

I. D. Number:

Permit/Number: AC 53-70548

Date of Issue:

Expiration Date: March 1, 1984

**SPECIFIC CONDITIONS:**

accordance with DER Method 5.

4. Reasonable precautions to prevent fugitive particulate emissions during construction, such as coating or spraying roads at the construction site, shall be taken by the permittee.

Issued this \_\_\_ day of \_\_\_\_\_, 1983

**STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL REGULATION**

---

VICTORIA J. TSCHINKEL, Secretary

\_\_\_ pages attached.

DEF PERMIT APPLICATION TRACKING SYSTEM MASTER RECORD

FILE#0000000070548 CONF#  
 FILE NAME:FLA TTF  
 APPL NAME:FLA TTF  
 ADDR:P O BOX 447  
 AGNT NAME:ROBT WALLACE  
 ADDR:P O BOX 7854

DEF PROCESSOR:RICHARDSON  
 DATE FIRST REC:06/06/83  
 APPL PHONE:(813)687-7474  
 CITY:LAKELAND  
 AGNT PHONE:(813)237-3784  
 CITY:TAMPA

DEF OFFICE:TPA  
 APPLICATION TYPE:AC  
 PROJECT COUNTY:53  
 ST:FLZIP:33802  
 ST:FLZIP:33673

ADDITIONAL INFO REQ: / / / / / / / / / / / /  
 APPL COMPLETE DATE: / / COMMENTS NEC:N DATE REQ: / / DATE REC: / /  
 LETTER OF INTENT NEC:Y DATE WHEN INTENT ISSUED: / / WAIVER DATE: / /

HEARING REQUEST DATES: / / / / / /  
 HEARING WITHDRAWN/DENIED/ORDER -- DATES: / / / / / /  
 HEARING ORDER OR FINAL ACTION DUE DATE: / / MANUAL TRACKING DESIRED:N

THIS RECORD HAS BEEN SUCCESSFULLY ADDED 06/06/83 13:00:25  
 FFF PD DATE#1:06/06/83 \$0400 RECEIPT# 71520 REFUND DATE: / / REFUND \$  
 FFF PD DATE#2: / / \$ RECEIPT# REFUND DATE: / / REFUND \$  
 APPL:ACTIVE/INACTIVE/DENIED/WITHDRAWN/TRANSFERRED/EXEMPT/ISSUED:AC DATE:06/06/83  
 REMARKS:MTXFR #4

STATE OF FLORIDA  
 DEPARTMENT OF ENVIRONMENTAL REGULATION

No 71520

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Sebes Date 6-7-83

Address P.O. Box 447 Dollars \$ 100.00

Applicant Name & Address Fl. Title Division Sols. Corp., P.O. Box 447

Source of Revenue annual applicant

Revenue Code 0101 Application Number AC53 70548

By Anthony Pelham

State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For Routing To District Offices And/Or To Other Than The Addressee		
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
From: _____	Date: _____	
Reply Optional [ ]	Reply Required [ ]	Info. Only [ ]
Date Due: _____	Date Due: _____	

TO: Bill Thomas, Tallahassee, DER  
FROM: Bill Thomas, Tampa, DER *BT*  
DATE: June 8, 1983  
SUBJECT: Application # AC53-70548  
Sikes Corporation

DER  
JUN 10 1983  
BAQM

The above subject facility has been classed a major facility and the attached application is for your handling. One copy has been retained in the Tampa Office.

WCT/scm

Attachment: as stated

PAID JUN 6 1983  
A053-70548



D.E.R.

JUN 6 1983

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
APPLICATION TO OPERATE/CONSTRUCT  
AIR POLLUTION SOURCES

SOUTHWEST DISTRICT  
TAMPA

SOURCE TYPE: Ceramic Tile Manufacture  New<sup>1</sup>  Existing<sup>1</sup>  
APPLICATION TYPE:  Construction  Operation  Modification  
COMPANY NAME: Florida Tile Division Sikes Corporation COUNTY: Polk  
Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peeking Unit No. 2, Gas Fired) Mixer #1, 4 tile presses & glazing lines 1&2 with Mikro-Pulsaire Dust Collector  
SOURCE LOCATION: Street 1 Sikes Blvd. City Lakeland  
UTM: East 405,200 North 3,102,400  
Latitude 28 ° 02 . 45 "N Longitude 81 ° 57 . 45 "W  
APPLICANT NAME AND TITLE: Florida Tile Division Sikes Corporation  
APPLICANT ADDRESS: P.O. Box 447 Lakeland, FL 33802

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative\* of Florida Tile Division Sikes Corporation  
I certify that the statements made in this application for a Air Pollution Source permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitted establishment.

\*Attach letter of authorization

Signed: William R. Boakes  
William R. Boakes, V.P. R&D Engineering  
Name and Title (Please Type)  
Date: 5/31/83 Telephone No. (813)687-7171

B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been ~~designed~~/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signed: Robert E. Wallace, III  
Robert E. Wallace, III  
Name (Please Type)  
Environmental Engineering Consultants, Inc  
Company Name (Please Type)  
P.O. Box 7854 Tampa, FL 33673  
Mailing Address (Please Type)  
Date: 5-23-83 Telephone No. (813)237-3781



Florida Registration No. 21608

<sup>1</sup>See Section 17-2.02(15) and (22), Florida Administrative Code, (F.A.C.)

SECTION II: GENERAL PROJECT INFORMATION

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

See Attachment A

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction August 1, 1983 Completion of Construction September 1, 1983

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

Table with 2 columns: Component Name and Cost. Rows include Baghouse and Fan (\$40,000.00), Ductwork and Installation (\$68,000.00), Electric, Foundation, Erection, Misc. (\$80,000.00), and Total (\$188,000.00).

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

A053-18299

E. Is this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 22F-2, Florida Administrative Code? Yes No

F. Normal equipment operating time: hrs/day 20 ; days/wk 7 ; wks/yr 52 ; if power plant, hrs/yr ; if seasonal, describe:

G. If this is a new source or major modification, answer the following questions. (Yes or No)

- 1. Is this source in a non-attainment area for a particular pollutant?
a. If yes, has "offset" been applied?
b. If yes, has "Lowest Achievable Emission Rate" been applied?
c. If yes, list non-attainment pollutants.
2. Does best available control technology (BACT) apply to this source?
3. Does the State "Prevention of Significant Deterioration" (PSD) requirements apply to this source?
4. Do "Standards of Performance for New Stationary Sources" (NSPS) apply to this source?
5. Do "National Emission Standards for Hazardous Air Pollutants" (NESHAP) apply to this source?

Attach all supportive information related to any answer of "Yes". Attach any justification for any answer of "No" that might be considered questionable.



**SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)**

A. Raw Materials and Chemicals Used in your Process, if applicable:

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
Tile Body Mixture	Particulate	100	9,900	Mixer & Presses
Glaze Mixture	Particulate	100	1,080	Glazing Line
See Attachment B)				

B. Process Rate, if applicable: (See Section V, Item 1)

1. Total Process Input Rate (lbs/hr): 10,980

2. Product Weight (lbs/hr): 9,627

C. Airborne Contaminants Emitted:

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission <sup>2</sup> Rate per Ch. 17-2, F.A.C.	Allowable <sup>3</sup> Emission lbs/hr	Potential Emission <sup>4</sup>		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr	T/yr	
Particulate	4.38	15.99	17-2.610(1)(b) Table 610-1 $E = 3.59P^{0.62}$	10.32	1096.1	4001.2	A-D

D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles <sup>5</sup> Size Collected (in microns)	Basis for Efficiency (Sec. V, It <sup>5</sup> )
Mikro-Pulsaire Dust Collector	Particulate	99.6%	0.1 to 100	Manufacturer
Continuous Automatic Model 320S-10-20	Type			

See Section V, Item 2.

<sup>1</sup> Reference applicable emission standards and units (e.g., Section 17-2.05(6) Table II, E. (1), F.A.C. - 0.1 pounds per million BTU heat input)

Calculated from operating rate and applicable standard

Emission, if source operated without control (See Section V, Item 3)

<sup>5</sup> If Applicable

E. Fuels N/A

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	

\*Units Natural Gas, MMCF/hr; Fuel Oils, barrels/hr; Coal, lbs/hr

Fuel Analysis:

Percent Sulfur: \_\_\_\_\_ Percent Ash: \_\_\_\_\_

Density: \_\_\_\_\_ lbs/gal Typical Percent Nitrogen: \_\_\_\_\_

Heat Capacity: \_\_\_\_\_ BTU/lb \_\_\_\_\_ BTU/gal

Other Fuel Contaminants (which may cause air pollution): \_\_\_\_\_

F. If applicable, indicate the percent of fuel used for space heating. Annual Average \_\_\_\_\_ Maximum \_\_\_\_\_

G. Indicate liquid or solid wastes generated and method of disposal.

Solid waste will be buried in landfill.

H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: 27 ft. Stack Diameter: 3.17 ft.

Gas Flow Rate: 28,500 ACFM Gas Exit Temperature: 20-100 °F.

Water Vapor Content: 5 % Velocity: 60.28 FPS

SECTION IV: INCINERATOR INFORMATION

N/A

Type of Waste	Type O (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq & Gas By-prod.)	Type VI (Solid By-prod.)
Lbs/hr Incinerated							

Description of Waste \_\_\_\_\_

Total Weight Incinerated (lbs/hr) \_\_\_\_\_ Design Capacity (lbs/hr) \_\_\_\_\_

Approximate Number of Hours of Operation per day \_\_\_\_\_ days/week \_\_\_\_\_

Manufacturer \_\_\_\_\_

Date Constructed \_\_\_\_\_ Model No. \_\_\_\_\_

	Volume (ft) <sup>3</sup>	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: \_\_\_\_\_ ft. Stack Diameter \_\_\_\_\_ Stack Temp. \_\_\_\_\_

Gas Flow Rate: \_\_\_\_\_ ACFM \_\_\_\_\_ DSCFM\* Velocity \_\_\_\_\_ FPS

\*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device:  Cyclone  Wet Scrubber  Afterburner  Other (specify) \_\_\_\_\_

Brief description of operating characteristics of control devices: \_\_\_\_\_

---



---



---



---

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, etc.):

---



---



---



---

### SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

1. Total process input rate and product weight — show derivation.
2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, etc.).
5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3, and 5 should be consistent: actual emissions = potential (1-efficiency).
6. An 8½" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.
7. An 8½" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).
8. An 8½" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

9. An application fee of \$20, unless exempted by Section 17-4.05(3), F.A.C. The check should be made payable to the Department of Environmental Regulation.
10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

**SECTION VI: BEST-AVAILABLE CONTROL TECHNOLOGY**

N/A

- A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?  
 Yes  No

Contaminant	Rate or Concentration

- B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)  Yes  No

Contaminant	Rate or Concentration

- C. What emission levels do you propose as best available control technology?

Contaminant	Rate or Concentration

- D. Describe the existing control and treatment technology (if any).

- 1. Control Device/System:
- 2. Operating Principles:
- 3. Efficiency: \*
- 4. Capital Costs:
- 5. Useful Life:
- 6. Operating Costs:
- 7. Energy:
- 8. Maintenance Cost:
- 9. Emissions:

Contaminant	Rate or Concentration

\*Explain method of determining D.3 above.

10. Stack Parameters

- |               |      |                 |     |
|---------------|------|-----------------|-----|
| a. Height:    | ft.  | b. Diameter:    | ft. |
| c. Flow Rate: | ACFM | d. Temperature: | °F  |
| e. Velocity:  | FPS  |                 |     |

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency\*:
- d. Capital Cost:
- e. Useful Life:
- f. Operating Cost:
- g. Energy\*:
- h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

2.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency\*:
- d. Capital Cost:
- e. Useful Life:
- f. Operating Cost:
- g. Energy\*\*:
- h. Maintenance Costs:
- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

\*Explain method of determining efficiency.

\*\*Energy to be reported in units of electrical power – KWH design rate.

3.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency\*:
- d. Capital Cost:
- e. Life:
- f. Operating Cost:
- g. Energy:
- h. Maintenance Cost:

\*Explain method of determining efficiency above.

- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space and operate within proposed levels:

4.

- a. Control Device
- b. Operating Principles:
- c. Efficiency\*:
- d. Capital Cost:
- e. Life:
- f. Operating Cost:
- g. Energy:
- h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

F. Describe the control technology selected:

- 1. Control Device:
- 2. Efficiency\*:
- 3. Capital Cost:
- 4. Life:
- 5. Operating Cost:
- 6. Energy:
- 7. Maintenance Cost:
- 8. Manufacturer:
- 9. Other locations where employed on similar processes:

a.

- (1) Company:
- (2) Mailing Address:
- (3) City:
- (4) State:
- (5) Environmental Manager:
- (6) Telephone No.:

\*Explain method of determining efficiency above.

(7) Emissions\*:

Contaminant	Rate or Concentration

(8) Process Rate\*:

b.

- (1) Company:
- (2) Mailing Address:
- (3) City:
- (4) State:

\*Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why.

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions\*:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

(8) Process Rate\*:

10. Reason for selection and description of systems:

Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why.





ATTACHMENT A

Section II A: This project consists of the installation of a baghouse and controlling emissions from Mixer No.1, which mixes the body materials for greenware tile, four tile presses, and glazing lines 1 and 2. Presently, a Pangborn baghouse (Permit No. A053-18299) controls emissions from Mixer No.1, two tile presses, and trim presses. Also, an Aerodyne Model 15114.6 baghouse, which has not been permitted, assists in controlling emissions from the two existing tile presses. With the installation of the new Mikro-Pulsaire baghouse, two additional tile presses will be installed and made operational, bringing the total to four tile presses.

The emissions from Mixer No.1 and the two existing tile presses will be diverted to the new baghouse, thereby reducing the load on the Pangborn baghouse, which will only control emissions from the trim presses. The Aerodyne baghouse will be shut-down. In addition to controlling the mixer's and four tile presses' emissions, the Mikro-Pulsaire will control emissions from glazing lines 1 and 2. This project will be in full compliance.

Section V:

1. Total process input rate: Body Mixture - 9,900 lbs/hr  
Glaze lines 1&2 - 60 gal/hr x 18 lbs/gal =  
1080 lbs/hr

Product Weight: 9,900 lbs/hr x .03 = 297 lbs/hr  
9,603 lbs/hr x .065 = 624 lbs/hr  
1,080 lbs/hr x .4 = 432 lbs/hr  
-----  
1353 lbs/hr

10,980 lbs/hr - 1,353 lbs/hr = 9,627 lb/hr

2. ACFM = 60(Vs)(As)  
28,500 = 60(Vs)(7.88)  
Vs = 60.28 ft/sec

ATTACHMENT A (CONTINUED)

Assumptions for Gas Stream: 5% moisture  
Ts = 100° F

$$\begin{aligned} Q_s &= 1058(1 - B_{ws}) V_s A_s (P_s/T_s) \\ &= 1058(.95) (60.28) (7.88) (30.00/560) \\ &= 25,577 \text{ SCFM} \end{aligned}$$

Cs = .02 grains/SCF - Manufacture Guarantee (Attachment B)

$$\begin{aligned} E &= \frac{C_s Q_s}{116.67} \\ &= \frac{(0.2) (25,577)}{116.67} \\ &= 4.38 \text{ lbs/hr} \end{aligned}$$

$$\begin{aligned} \text{Annual} &= 4.38 \text{ lbs/hr} \times 20 \text{ hrs/day} \times 365 \text{ days/yr} \times 1 \text{ ton/2000 lbs} \\ &= 15.99 \text{ ton/yr} \end{aligned}$$

$$3. \quad E = \frac{(5 \text{ gr/SCF}) (25,577)}{116.67}$$

$$E = 1,096.1 \text{ lbs/hr}$$

The baghouse supplier has conservatively estimated the inlet grain loading to be 4 to 5 grains per SCF (Attachment B). The baghouse will control only nuisance dust from the mixer, presses and glazing operations. The specified baghouse can handle 10 gr/SCF and still meet the outlet concentration of 0.02 gr/SCF.

QUOTATION



Subsidiary of

**MikroPul**  
CORPORATION

UNITED STATES FILTER CORPORATION  
10 Chatham Road • Summit, N.J. 07901 • (201) 273-6360

Joe Pavlosky - MikroPul  
Terry Wheeler - Linder

Linder Inquiry E4-10

DATE: April 12, 1983

TO: Florida Tile Division  
Sikes Corporation  
P.O. Box 447  
Lakeland, FL 33802  
ATTN: Mr. Bill Gandy

FOR: Dust Collector

YOUR REF:

NE (1) Mikro-Pulsaire Dust Collector, continuous automatic type, Model 320S-10-20 with 60° slope hopper and all standard equipment. Unit to operate under the following conditions:

Gas Volume:	28,500 ACFM
Temperature:	20° to 100°F.
Dust Loading:	Estimate 4-5 Grains/SCF
Filter Rate:	7.56:1
Dust:	Mostly Talc & Clay
Application:	Vent Nuisance Dust from Presses, Brushes, Spray Booth, Clay Prep. System, Mixer and Transfer Points
Collector Efficiency:	Dust load leaving Mikro-Pulsaire will not exceed 0.02 Gr's/SCF

EQUIPMENT TO CONSIST OF THE FOLLOWING:

- One (1) Filter case housing, plenum and hopper 12 ga. carbon steel welded construction.
- One (1) Set of filter bags consisting of 320 bags, 10' long fabricated with 16 oz. Polyester felt filter fabric, Part #17877 to provide a total of 3770 sq.ft. of filter area. Maximum operating temperature is 375 Degrees F. Shipped loose for field installation by others.
- One (1) 60° slope hopper with 40" O.D. inlet (slip connection type).
- One (1) Set of 320 filter bag retainers, hot roll steel, alum. venturiers and S.S. filter bag clamps to mount above filter bags. Shipped loose for field installation by others.

When ordering this material, please indicate if it is tax exempt and exemption number; or if a tax applies, the amount or percentage of the tax.

FOB: Shipping Points

SHIPMENT:

(A) Time needed to submit detailed drawings for approval (when required) . . . 3-4 Weeks . . . . .

TERMS: Net 10th Prox. No Sales Or Use Taxes Included.

(B) Time needed to complete fabrication after receipt of approved drawings (when required) . 8-10 Weeks - after drawing approval - if required.

SHIPPING WEIGHT: Listed with Pricing.

The price quoted is a firm quotation for a period of 30 days after quotation date. The contents included in the above quotation are subject to approval by home office."

NOTE:

When entering your order please return one of our prints submitted with our quote and mark it approved for orientation or mark the changes required and we will advise further.

ADDRESS REPLY TO: LINDER INDUSTRIAL MACHINERY CO.  
P.O. BOX 5330  
LAKELAND, FL 33803

**MikroPul**  
CORPORATION  
UNITED STATES FILTER CORPORATION

*D. J. Beckman*

D. J. Beckman  
Linder Inquiry E4-10  
1-75

ATTACHMENT C

LISTED BELOW ARE THE VARIOUS MATERIALS USED IN GLAZING COMPOUNDS AND BODY:

A. GLAZE AND MIXTURE

1. GLAZE BASE MATERIALS

-----  
SILICA  
GROUND GLASS  
FELDSPAR  
ZINC OXIDE  
LEAD MONOSILICATE  
ZIRCONIUM SILICATE  
ALUMINA HYDRATE  
ALUMINA OXIDE  
CHINA CLAY  
BALL CLAY  
CALCIUM CARBONATE  
BARIUM CARBONATE  
TITANIUM DIOXIDE  
FLUORSPAR

2. COLORING MATERIALS

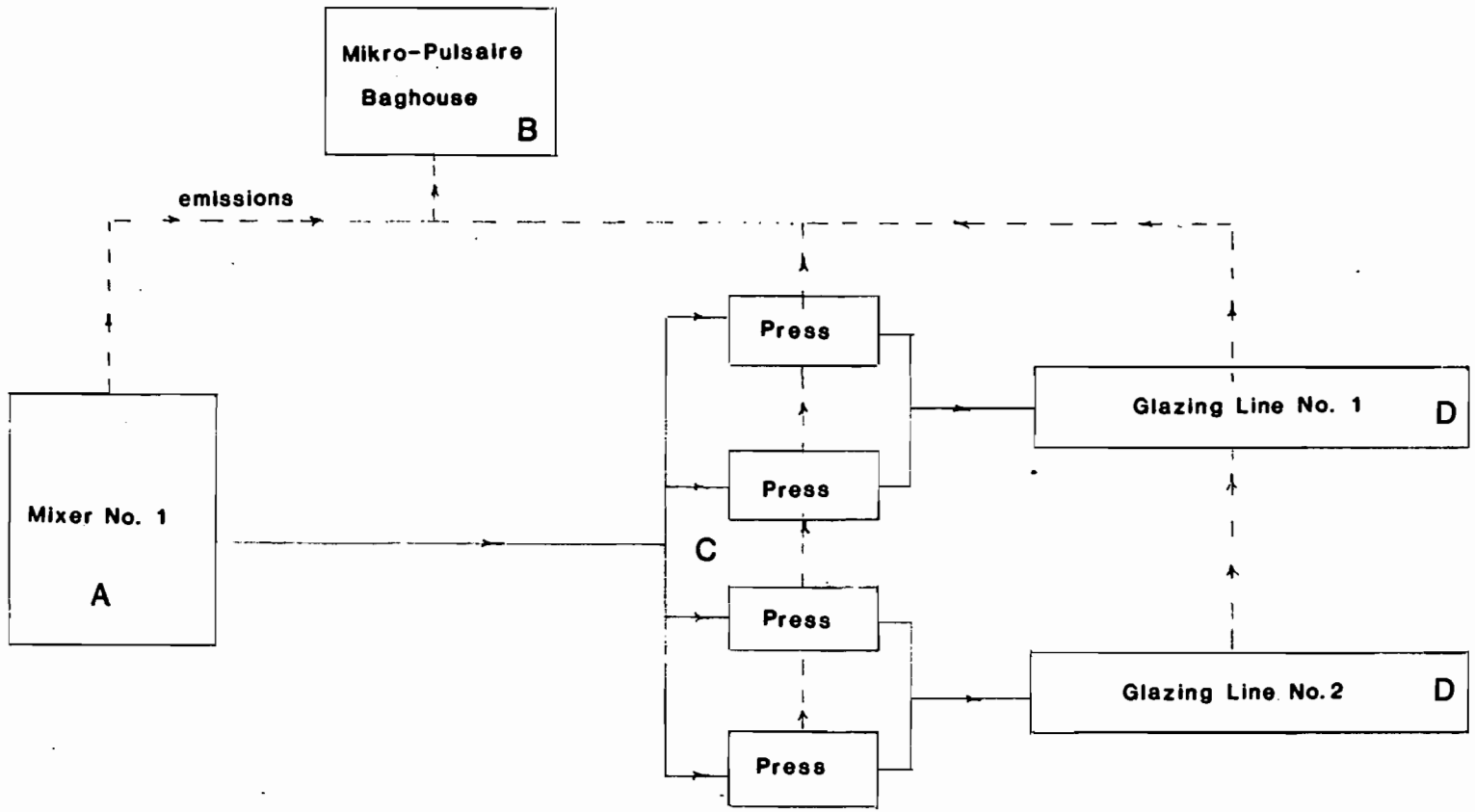
-----  
COBALT OXIDE  
IRON OXIDE  
COPPER OXIDE  
GLAZE STAINS

3. LIQUID AGENTS

-----  
QUADROFOS -  
SODIUM TETRAPHOSPHATE  
PHOPLEX -  
ACRYLIC RESIN EMULSION  
CMC -  
SODIUM CARBOXYMETHYLCELLULOSE  
CALGON  
GUM ARABIC  
WATER

B. TILE BODY MIXTURE

-----  
TALC -  
MAGNESIUM SILICATE  
BALL CLAY -  
ALUMINUM SILICATE  
WOLLASTONITE -  
CALCIUM SILICATE  
WHITING -  
CALCIUM CARBONATE  
WATER



# FLOW DIAGRAM

ATTACHMENT D



Mapped by the Army Map Service  
Published for civil use by the Geological Survey

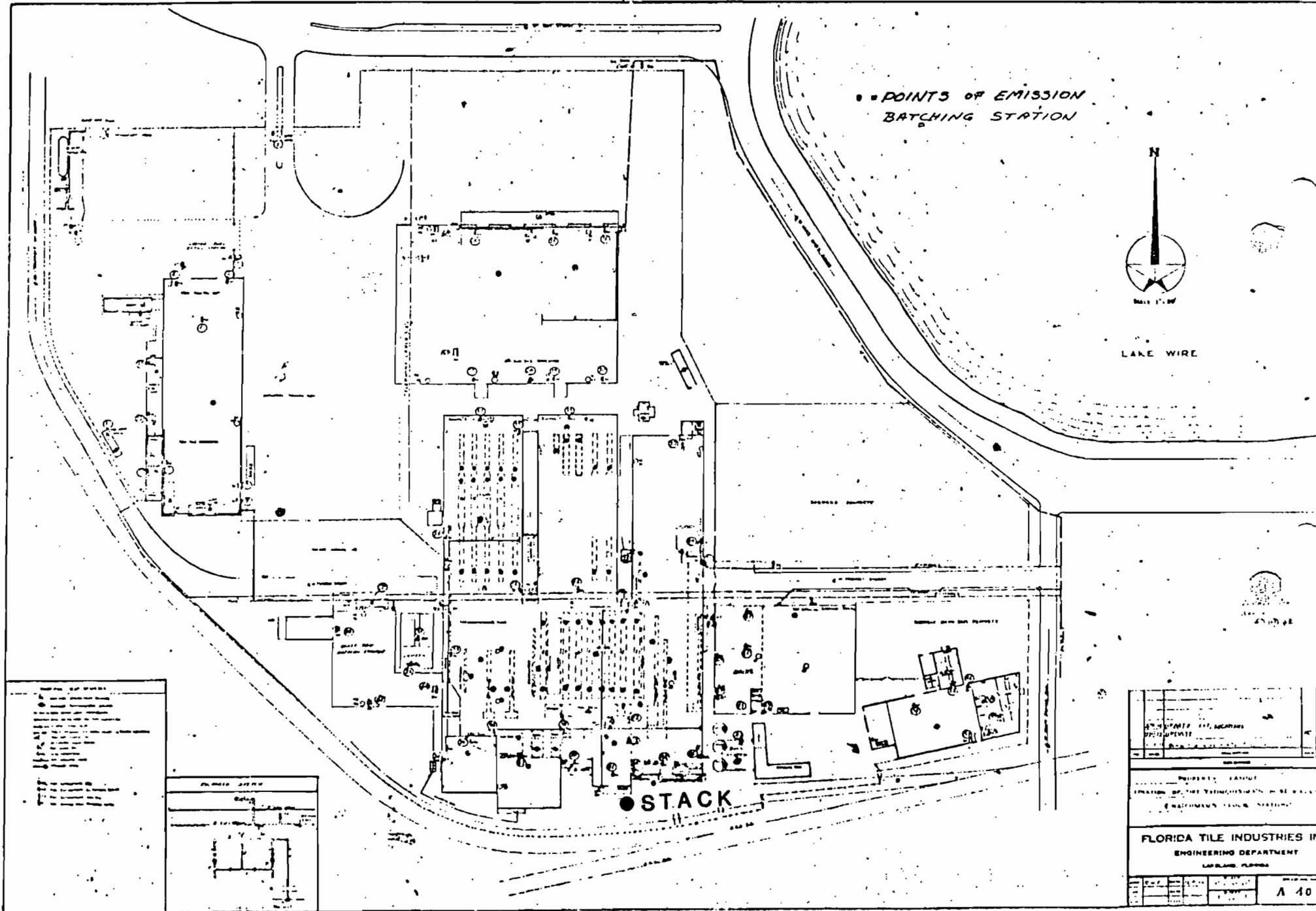
Control by USCGS and Florida Geodetic Survey

Topography by photogrammetric methods from aerial photographs  
taken 1942 and planimetric surveys 1944

Polyconic projection. 1927 North American datum.  
10,000 foot grid based on Florida coordinate system.

BEST AVAILABLE COPY

ATTACHMENT F



POINTS OF EMISSION  
BATCHING STATION



LAKE WIRE

STACK

PROPERTY LOCATION	
DESCRIPTION OF THE FACILITY AND USE	
EQUIPMENT TYPE AND NUMBER	
DATE OF SURVEY	
DRAWN BY	
CHECKED BY	
APPROVED BY	
FLORIDA TILE INDUSTRIES INC. ENGINEERING DEPARTMENT LAKELAND, FLORIDA	
SCALE	DATE
PROJECT	NO.
A 40	

Therefore, the allowable emissions of the existing sources shall be used to establish annual historical emissions, ~~and~~ emissions inventory for PSD applicability, and shall be ~~be~~ incorporated in the appropriate permit(s). ~~Since the existing sources were permitted under the process weight and before November 1, 1991, the~~

The following table will reflect the allowable emissions of the existing sources based on the process weight equation  $3.59 P^{0.62}$ , where P is less than or equal to 30 tons per hour total process weight input, and <sup>the</sup> products of combustion of natural gas based on ~~AP-42~~ Table 1.4-1.

Source	Permit #	Hours of Operation Hrs/Days/Weeks	Pollutant									
			PM		SO <sub>2</sub>		NO <sub>x</sub>		HC		CO	
			#/hr	TPY	#/hr	TPY	#/hr	TPY	#/hr	TPY	#/hr	TPY
Tile kilns (15) <sup>1</sup>	A053-18302	24/5/50	0.643	2.70	0.026	0.11	5.14	21.6	0.34	1.44	0.86	3.6
Tile Dryers <sup>2</sup>	-18301	24/5/50	0.030	0.12	0.001	0.005	0.24	1.00	0.016	0.067	0.04	0.17
Batching Sys. Baghouse	-18303	16/5/50	17.58	35.16								
Tile Glazing (8)	-18298	16/7/50 (30 days/mth) (12 mth/yr)	12.62	36.34								
Tile Pressing	-18299	16/5/50	13.25	26.50								
Storage Silos (3)	-18300	(8/5/50)	99.96	67.97								
Simpson Mixers (3)	-18297	16/5/50	17.58	35.16								
		Total	203.95		0.115		22.6		1.507		3.77	

<sup>1</sup> Natural Gas Firing: maximum heat input of  $45 \times 10^6$  Btu/hr. and maximum consumption of  $1.080 \times 10^6$  ft<sup>3</sup>/day

<sup>2</sup> Natural Gas Firing: maximum heat input of  $2.080 \times 10^6$  Btu/hr and maximum consumption of 48,000 ft<sup>3</sup>/day



~~The facility is a...~~

Based on the table, the facility is major for the pollutant particulate matter (PM). Therefore, further PSD review shall be conducted according to 17-2.500 (2)(d) 4. <sup>a. (ii),</sup> FAC Modifications potential emissions of the proposed modifications to the existing major facility, and one current construction permit at

Potential Emissions of Proposed Modifications and Current Construction Permit

		PM	SO <sub>2</sub>	NOx	HC	CO
Mill Room Dust Collector	AC 53-48977	0.5   1.29				
Tile Dyer	55781	0.01   0.004	0.0004   0.0002	0.02   0.008	0.008   0.003	0.1   0.04
Kiln	55782	0.04   0.02	0.002   0.0008	0.06   0.02	0.02   0.008	0.34   0.12
Micro-Pulsaine Baghouse		0.022   0.01				

~~Because~~

Before PSD can be triggered at least one of the pollutants must exceed the significant level (see Table 500-2, FAC). Since there are no pollutant totals that exceed the significant level, a PSD determination ~~is~~ is not required for the proposed projects according to Chapter 17-2.500 (2)(d) 4. a. (ii), FAC.

The proposed project will be permitted ~~according to~~ in accordance with Chapters 17-2.520, ~~and 17-2.610~~ <sup>17-</sup> 2.610, and <sup>17-</sup> 2.620, FAC.

Because the <sup>existing</sup> facility and proposed projects are not of a specific source/facility category that is defined and classified in Chapter 17-2, FAC, permitting will be in accordance with the referenced applicable sections under the "General" classifications, and the ~~applicable~~ data submitted in the applications to construct an air pollution source.

Mr. William R. Boakes, V.P.

"

"

"

33402

Dear Mr. Boakes:

Since the current operating permits ~~and there~~ are rather vague and in absence of federally enforceable allowable emission limits, the Department will have no other choice than to use the facility actual emissions as were submitted and are reflected in the following table.

For construction or modification of air pollutant emitting facilities in those parts of the state in which the state ambient air quality standards are being met, ~~the~~ a <sup>review</sup> ~~PSD~~ for prevention of significant deterioration <sup>(PSD)</sup> applicability is required according to Chapter 17-2.500, ~~Florida~~ Florida Administrative Code (FAC). In ~~addition~~ establishing the applicable section(s), the existing facility is categorized as major or minor, <sup>If major, it is</sup> then compared to the list in Table 500-1, FAC.

Accordingly

~~The~~

The existing facility ~~is~~ a major emitting facility for PM according to 17-2.500(2)(d)4, FAC.

Within the bounds of 17-2.500, FAC, is a facility does not or has has not been required to <sup>records</sup> ~~to~~ <sup>non-existing Op. Permit requirements</sup> establish actual <sup>pollutant</sup> emissions, then the allowable emissions shall be used to establish the <sup>historical</sup> facility's emission levels. ~~All of the documents submitted or~~ ~~to~~ ~~SWD~~ ~~reflecting~~ ~~the~~ ~~annual~~ On Feb 26, 1982, the "Annual Operations Report Form for Air Emissions Sources" was submitted to the <sup>by the company for the existing sources</sup> SWD and reflect the emission levels (TBY) <sup>for the year 1981</sup> per source, which happens to be the allowable emissions as requested in the source's <sup>original</sup> application(s) to construct/operate an air pollution source. Therefore, the following table reflects the existing facility's allowable emission limits and shall become ~~part of~~ ~~the~~ ~~SWD~~ ~~per~~ ~~source~~

a condition<sup>(s)</sup> of their <sup>operating</sup> permit(s). ~~Record~~ ~~secretly~~ ~~enter~~

C. Rule Applicability:

For construction or modification of air pollutant emitting facilities in those parts of the state in which the state ambient air quality standards are being met, a review for prevention of significant deterioration (PSD) applicability is required according to Chapter 17-2.500, Florida Administrative Code (FAC). This type of operation is not on the list of 28, Major Facility Categories, according to Table 500-1 and therefore, would require 250 tons per year (TPY) or greater <sup>of potential</sup> emissions ~~per year~~ in order to be classified as a major facility.

In establishing the historical facility emissions, PSD review allows the use of <sup>historical</sup> established actual emissions or the allowable emissions, if federally enforceable. Since ~~there are~~ <sup>current</sup> there are no operating permits requiring compliance tests that would establish actual emissions and the company submitted

on February 26, 1982,

to the <sup>DER's</sup> Southwest District Office the "Annual Operations Report Form For Air Emissions Sources" for the year 1981, which <sup>documented</sup> established that the annual <sup>source</sup> emissions <sup>submitted</sup> were the same as the allowable <sup>requested</sup> emissions ~~in~~

in the ~~original~~ <sup>original</sup> applications to construct/operate an air pollution source, the following table <sup>was developed and</sup> will reflect these emissions and shall <sup>become</sup> ~~be~~ federally enforceable by incorporating the limits in the ~~requested~~ <sup>new</sup> permits.

*Sc. 17-2.500  
+ historical emissions*

as the facility's historical emissions, by source, and shall be incorporated into the appropriate permits

Existing Facility's Allowable Emissions Limits

Source	Permit #	Pollutant Emissions (TPY)				
		PM	SO <sub>2</sub>	NO <sub>x</sub>	HC	CO
Tile Kilns (15)	A053-18302	3.42	0.11	38.1	0.57	3.24
Tile Dryers	" -18301					
Batching Sys. Bayhouse	-18303	39.45				
Tile Glazing (8)	-18298	101.85				
Tile Pressing	-18299	39.45				
3 Storage Silos	-18300	35.1				
3 Singson Mixers	-18297	39.45				
Total		262.11	0.11	38.1	0.57	3.24

45x10<sup>6</sup> Btu/hr H.I.

Based on the table, the facility is a major emitting facility for the pollutant particulate matter (PM). Therefore, further PSD review shall be according to Chapter 17-2.500 (2)(d) 4. a. (ii), FAC, Modifications to Major Facilities. Before PSD review will be required, at least one of the pollutants emitted must <sup>equal or</sup> exceed the significant level (see Table 500-2, Regulated Air Pollutants- Significant Emission Rates, FAC).

The following table will <sup>account</sup> for the <sup>significant net</sup> emissions increases (current and projected) at the existing major facility since the established baseline date of February 24, 1978 (PSD-FH-008). Only one construction permit (AC 53-48977) has been issued to this company since that date.

The permit contained <sup>an</sup> allowable emission rate for PM and is Federally enforceable. Therefore, this rate and the projected allowable emission rates for the proposed modifications shall be used to establish <sup>an</sup> annual emissions inventory for PSD review applicability.

### Facility Significant Net Emissions Inventory

use one-line descriptions  
↓  
↓  
↓

Source	Permit Number	Pollutant									
		PM		SO <sub>2</sub>		NO <sub>x</sub>		HC		CO	
		#/hr	TPY	#/hr	TPY	#/hr	TPY	#/hr	TPY	#/hr	TPY
Mill Room Dust Collector	AC 53-48977	3.83	16.775								
Tile Dryer	-55781	0.01	0.004	0.0006	0.0002	0.02	0.008	0.008	0.003	0.1	0.04
Kiln	-55782	0.04	0.016	0.002	0.0008	0.06	0.024	0.02	0.008	0.34	0.138
Micro-Pulsaire Baghouse	-55784	0.022	0.009								
Total		3.902	16.804	0.0026	0.001	0.08	0.032	0.028	0.011	0.44	0.178

Natural Gas combustion <sup>emissions</sup> based on AP-42 Table 1-4.1

Since there are not any pollutant emissions totals that <sup>equal or</sup> exceed the significant levels, a PSD determination will not be required for the proposed modifications according to Chapter 17-2.500 (2)(d) 4. a. (ii), FAC. However, any <sup>future net</sup> increase(s) that will total 8.196 TPY for PM, both a Federal and State PSD determination shall be required.

consequently, the proposed project will be permitted in accordance with Chapters 17-2.520, 17-2.610, and 17-2.620, FAC, because the existing facility and proposed projects are not of a specific source/facility category that is defined and classified in Chapter 17-2, FAC. Permitting will be based on the

data submitted in the applications to construct air pollution sources.

Since there are not any specific emission limiting standards for this type of facility, and proposed modifications contained in Chapter 17-2, FAC, the proposed modifications will be permitted in accordance with Chapters 17-2.520, 17-2.610, and 17-2.620, FAC.



Consequently, the proposed project will be permitted in accordance with Chapters 17-2.520, 17-2.610, and 17-2.620, FAC, because the existing facility and proposed projects are not of a specific source/facility category that is defined and classified in Chapter 17-2, FAC. Permitting will be

based on the data submitted in the applications to construct air pollution sources.

there are no <sup>specific</sup> emission limiting standards for this type of facility and proposed modifications contained in Chapter 17-2, FAC.

Based on the table, the facility is a major emitting facility for the pollutant particulate matter (PM). Therefore, further PSD review shall be according to Chapter 17-2.500 (2)(d) 4. a. (ii), FAC, Modifications to Major Facilities. Before PSD review will be required, at least one of the pollutants emitted must <sup>equal or</sup> exceed the significant level (see Table 500-2, Regulated Air Pollutants- Significant Emission Rates, FAC).

The following table will <sup>account</sup> for the <sup>significant net</sup> emissions increases (current and projected) at the existing major facility since the established baseline date of February 24, 1978 (PSD-FW-008). Only one construction permit (AC 53-48977) has been issued to this company since that date.

The permit contained <sup>an</sup> allowable emission rate for PM and is federally enforceable. Therefore, this rate and the projected allowable emission rates for the proposed modifications shall be used to establish <sup>an</sup> annual emissions inventory for PSD review applicability.

### Facility Significant Net Emissions Inventory

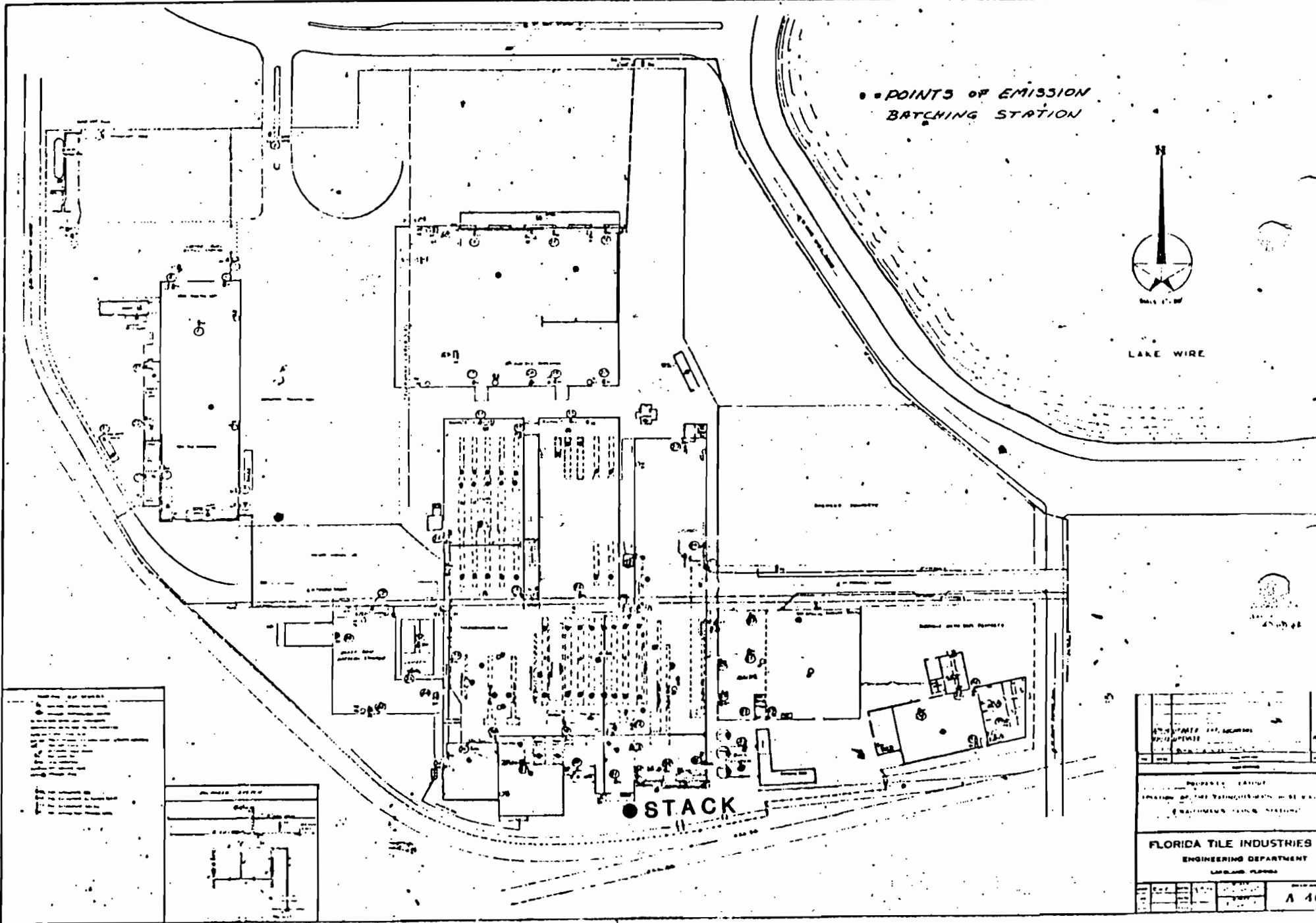
Please use one-line descriptions

Source	Permit Number	Pollutant									
		PM		SO <sub>2</sub>		NO <sub>x</sub>		HC		CO	
		#/hr	TPY	#/hr	TPY	#/hr	TPY	#/hr	TPY	#/hr	TPY
Mill Room Dust Collector	AC 53-48977	3.83	16.775								
Tile Dryer	-55781	0.01	0.004	0.0006	0.0002	0.02	0.008	0.008	0.003	0.1	0.04
Kiln	-55782	0.04	0.016	0.002	0.0008	0.06	0.024	0.02	0.008	0.34	0.138
Micro-Pulsaire Baghouse	-55784	0.022	0.009								
Total		3.902	16.804	0.0026	0.001	0.08	0.032	0.028	0.011	0.44	0.178

Natural gas combustion <sup>emissions</sup> based on AP-42 Table 1-4.1

Since there are not any pollutant emissions totals that <sup>equal or</sup> exceed the significant levels, a PSD determination will not be required for the proposed modifications according to Chapter 17-2.500 (2)(d) 4. a. (ii), FAC. However, any <sup>future net</sup> increase(s) that will total 8.196 TPY for PM, both a Federal and State PSD determination shall be required.

ATTACHMENT F



PROJECT NAME		DATE	
LOCATION OF THE ESTABLISHMENT IN SE. QUARTER		DRAWING NO.	
EIGHTH TOWN, SE. QUARTER		A 40	
FLORIDA TILE INDUSTRIES			
ENGINEERING DEPARTMENT			
LAKELAND, FLORIDA			
DATE	BY	CHECKED	APPROVED