

P 938 762 821

RECEIPT FOR CERTIFIED MAIL

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

PS Form 3800, June 1985


Sent to Mr. Wm. R. Boakes, Fla. Tile	
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 Mailed: 1-29-90
Permit: AC 53-164185
AC 53-164616

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4. Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. (Extra charge)
2. Restricted Delivery (Extra charge)

3. Article Addressed to: Mr. William R. Boakes, Vice-President Sikes Corporation Florida Tile Division P. O. Box 447 Lakeland, Florida 33802	4. Article Number p 938 762 821
	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
	Always obtain signature of addressee or agent and <u>DATE DELIVERED</u> .
5. Signature - Address X <i>Wm R Boakes</i>	6. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X	
7. Date of Delivery	





Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION NOTICE OF PERMITS

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

January 26, 1990

Enclosed are construction permits Nos. AC 53-164185 and AC 53-164616 for Sikes Corporation to construct (alter) mixer/press line No. 1 and mixer/press line No. 2 at your ceramic tile manufacturing facility located in Lakeland, Polk County, Florida. These permits are issued pursuant to Section 403, Florida Statutes.

Any party to these permits has the right to seek judicial review of these permits pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date these permits are filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

C. H. Fancy, P.E.
Chief
Bureau of Air Regulation

Copy furnished to:

Bill Thomas, SW District
Randal Reynolds, P.E.

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 1-29-90.

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to
§120.52(9), Florida Statutes, with
the designated Department Clerk,
receipt of which is hereby
acknowledged.

Karin Deber
Clerk

1-29-90
Date

Final Determination

Sikes Corporation,
Florida Tile Division
Lakeland, Polk County, Florida

Existing Trim Press Area Alteration

Mixer/Press Line No. 1 - AC 53-164185
Mixer No. 1 and 9 Trim Presses Controlled
with a Micro-Pulsair Dust Collector

Mixer/Press Line No. 2 - AC 53-164616
Mixer No. 2 and 12 Trim Presses Controlled
with a W. W. Sly Dust Collector

Department of Environmental Regulation
Division of Air Resources Management
Bureau of Air Regulation

January 24, 1990

Final Determination

The Technical Evaluation and Preliminary Determination for the permits to construct mixer/press line No. 1 (AC 53-164185) and mixer/press line No. 2 (AC 53-164616) at Sikes Corporation's ceramic tile manufacturing plant located in Lakeland, Polk County, Florida was distributed on July 28, 1989. The Notice of Intent to Issue was published in The Ledger on November 28, 1989. Copies of the evaluation were available for public inspection at the Lakeland Public Library and the Department's offices in Tampa and Tallahassee.

No comments were submitted on the Department's Intent to Issue the permits. The final action of the Department will be to issue construction permit Nos. AC 53-164185 and AC 53-164616 as proposed in the Technical Evaluation and Preliminary Determination.



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:
Sikes Corporation
Florida Tile Division
P.O. Box 447
Lakeland, Florida 33802

Permit Number: AC 53-164185
Expiration Date: June 1, 1990
County: Polk
Latitude/Longitude: 28°02'45"N
81°57'45"W
Project: Mixer/Press Line No. 1

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

Alterations to the existing press area that will result in the Micro-Pulsair dust collector controlling the particulate matter emissions from the wet bin and mixer No. 1 and 9 trim presses.

The source shall be in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application received April 21, 1989.
2. DER letter dated May 30, 1989.
3. Lake Engineering, Inc. letter dated June 20, 1989.

PERMITTEE:
Sikes Corporation

Permit Number: AC 53-164185
Expiration Date: June 1, 1990

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
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. Neither 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 is not 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, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; 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:
Sikes Corporation

Permit Number: AC 53-164185
Expiration Date: June 1, 1990

GENERAL CONDITIONS:

6. The permittee shall 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 and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor 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 provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including 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.

PERMITTEE:
Sikes Corporation

Permit Number: AC 53-164185
Expiration Date: June 1, 1990

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 for 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 involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

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 17-4.120 and 17-30.300, F.A.C., 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 or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold 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) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

PERMITTEE:
Sikes Corporation

Permit Number: AC 53-164185
Expiration Date: June 1, 1990

GENERAL CONDITIONS:

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 dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

14. 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 corrected promptly.

SPECIFIC CONDITIONS:

1. This review is based on the production of the 21 trim presses in the existing press area producing an average of 2,018 lbs/hr of green tiles.

2. The presses may operate 24 hrs/day, 7 days/week, 49 weeks/year or 8,232 hrs/year.

3. The permittee shall maintain logs that can be used to determine the production and hours of operation of the trim presses.

4. All reasonable precautions shall be taken to minimize generation of unconfined emissions of particulate matter in accordance with the provisions in F.A.C. 17-2.610(3). These provisions are applicable to any source including, but not limited to, vehicular movement, transportation of materials, construction, demolition or wrecking, or industrial related activities such as loading, unloading, storing, handling, and processing of materials. Reasonable precautions shall include, but are not limited to, wetting or cleaning of areas generating unconfined emissions.

5. Pursuant to F.A.C. 17-2.620(2), the permittee shall not allow the discharge of air pollutants which cause or contribute to an objectionable odor.

PERMITTEE:
Sikes Corporation

Permit Number: AC 53-164185
Expiration Date: June 1, 1990

SPECIFIC CONDITIONS:

6. Particulate matter emissions from the Micro-Pulsaire baghouse controlling system No. 1 (wet bin and mixer No. 1 and 9 trim presses) shall not exceed 0.9 lbs/hr (3.6 TPY) or 5% opacity.

7. This source shall be tested for particulate matter emissions, while it is operating at its permitted capacity, by EPA Methods 1, 2, 4, and 5 if visible emissions, as determined by EPA Method 9, exceed 5% opacity. Specifications for the referenced test methods are listed in F.A.C. 17-2.700(6)(b), (Dec. 5, 1988).


8. The Department's Southwest District office in Tampa shall be notified at least 15 days prior to any compliance tests.

9. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. 17-4.090).

10. An application for an operation permit must be submitted to the Southwest District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviation from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. 17-4.220).

Issued this 25 day
of Jan, 1990

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


Dale Twachtmann, Secretary



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:

Sikes Corporation
Florida Tile Division
P.O. Box 447
Lakeland, Florida 33802

Permit Number: AC 53-164616
Expiration Date: June 1, 1990
County: Polk
Latitude/Longitude: 28°02'45"N
81°57'45"W
Project: Mixer/Press Line No. 2

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

Alterations to the existing press area that will result in the W. W. Sly baghouse controlling the particulate matter emissions from wet bin and mixer No. 2 and 12 trim presses.

The source shall be in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application received April 21, 1989.
2. DER letter dated May 30, 1989.
3. Lake Engineering, Inc. letter dated June 20, 1989.

PERMITTEE:
Sikes Corporation

Permit Number: AC 53-164616
Expiration Date: June 1, 1990

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
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. Neither 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 is not 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, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; 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:
Sikes Corporation

Permit Number: AC 53-164616
Expiration Date: June 1, 1990

GENERAL CONDITIONS:

6. The permittee shall 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 and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor 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 provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including 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.

PERMITTEE:
Sikes Corporation

Permit Number: AC 53-164616
Expiration Date: June 1, 1990

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 for 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 involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

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 17-4.120 and 17-30.300, F.A.C., 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 or a copy thereof shall be kept at the work site of the permitted activity.

13. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold 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) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

PERMITTEE:
Sikes Corporation

Permit Number: AC 53-164616
Expiration Date: June 1, 1990

GENERAL CONDITIONS:

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 dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

14. 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 corrected promptly.

SPECIFIC CONDITIONS:

1. This review is based on the production of the 21 trim presses in the existing press area producing an average of 2,018 lbs/hr of green tiles.

2. The presses may operate 24 hrs/day, 7 days/week, 49 weeks/year or 8,232 hrs/year.

3. The permittee shall maintain logs that can be used to determine the production and hours of operation of the trim presses.

4. All reasonable precautions shall be taken to minimize generation of unconfined emissions of particulate matter in accordance with the provisions in F.A.C. 17-2.610(3). These provisions are applicable to any source including, but not limited to, vehicular movement, transportation of materials, construction, demolition or wrecking, or industrial related activities such as loading, unloading, storing, handling, and processing of materials. Reasonable precautions shall include, but are not limited to, wetting or cleaning of areas generating unconfined emissions.

5. Pursuant to F.A.C. 17-2.620(2), the permittee shall not allow the discharge of air pollutants which cause or contribute to an objectionable odor.

PERMITTEE:
Sikes Corporation

Permit Number: AC 53-164616
Expiration Date: June 1, 1990

SPECIFIC CONDITIONS:

6. Particulate matter emissions from the W. W. Sly baghouse controlling system No. 2 (wet bin and mixer No. 2 and 12 trim presses) shall not exceed 0.49 lbs/hr (2 TPY) or 5% opacity.

7. This source shall be tested for particulate matter emissions, while it is operating at its permitted capacity, by EPA Methods 1, 2, 4, and 5 if visible emissions, as determined by EPA Method 9, exceed 5% opacity. Specifications for the referenced test methods are listed in F.A.C. 17-2.700(6)(b), (Dec. 5, 1988).

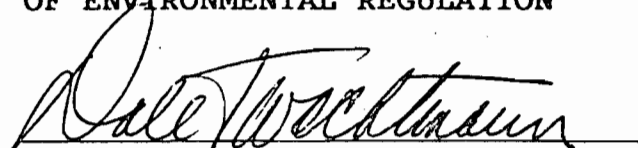
8. The Department's Southwest District office in Tampa shall be notified at least 15 days prior to any compliance tests.

9. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. 17-4.090).

10. An application for an operation permit must be submitted to the Southwest District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviation from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. 17-4.220).

Issued this 25 day
of Jan, 1990

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


Dale Twachtmann, Secretary



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee	
To: _____	Location: _____
To: _____	Location: _____
To: _____	Location: _____
From: _____	Date: _____

Interoffice Memorandum

TO: Dale Twachtmann

for FROM: Steve Smallwood *SS*

DATE: January 24, 1990

SUBJ: Approval of Sikes Corporation Permit Applications
AC 53-164185 and AC 53-164616

Attached for your approval and signature are two permits prepared by the Bureau of Air Regulation for the above mentioned company to construct (alter) two mixer/press lines at their ceramic tile manufacturing plant located in Lakeland, Polk County, Florida.

No comments were received during the public notice period. Day 90, after which these permits will be issued by default, is February 26, 1990.

I recommend your approval and signature.

Attachments

SS/WH/plm

RECEIVED

JAN 25 1990

Office of the Secretary

Please call
Patty Adams
when signed
4-1344

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 the supplementary documents file drawer. Folders in that drawer are arranged alphabetically, then by permit number.

Folder Name: Florida Tile Division of Sikes Corporation

Permit(s) Numbered:

AC 53 -164185
AC 53 -164616

Documents:

Period during Detailed Description
which
document was
received

- | | |
|---|--|
| Application
AC53-164185,
-164616
21 April 1989 | 1. 24"×36" Blueprint: No. 107 TYPE EE360 DUST
FILTER, 19'-0" LG. -- FOR-- FLORIDA TILE
INDUSTRIES (DWG No.: 1012-8997-A) |
| | 2. 24"×36" BLUEPRINT: FLORIDATILE; LAKELAND FL.- DUST
COLLECTION SYSTEM @ TRIM PRESSES (DWG No.: M-
2822-B) |

Check Sheet

Company Name: Fla Tile / Sikes Corp
Permit Number: AC 53-164185, 16416
PSD Number:
County: Polk
Permit Engineer:
Others involved:

Application:

- Initial Application
- Incompleteness Letters
- Responses
- Final Application (if applicable)
- Waiver of Department Action
- Department Response
- Other

Intent:

- Intent to Issue
- Notice to Public
- Technical Evaluation
- BACT Determination
- Unsigned Permit
- Correspondence with:
 - EPA
 - Park Services
 - County
 - Other
- Proof of Publication
- Petitions - (Related to extensions, hearings, etc.)
- Other

Final Determination:

- Final Determination
- Signed Permit
- BACT Determination
- Other

Post Permit Correspondence:

- Extensions
- Amendments/Modifications
- Response from EPA
- Response from County
- Response from Park Services
- Other

PERMIT #: AC 53-164185

APPLICANT NAME: Sikes Corp./Fla. Tile Division

TYPE OF PERMIT: AC

SUBTYPE: 1E

STATUS: _____ (IS, DE, GP, EX, WI) PERMIT PROCESSING (FORM #: DER-CA 01)

OFFICE: BAQ

DATE	TIME BEGIN	TIME END	TOTAL TIME (15 MIN)	TASK	POSITION TITLE
5-2-89	1:10	1:35	30 min	Log in, complete cash listing assign to engineer, PATS entry, distribute to district.	Planner I

PERMIT #: AC -164185

APPLICANT NAME: Sikes Corp./Fla. ile Division

TYPE OF PERMIT: AC

SUBTYPE: 1E

STATUS: (IS, DE, GP, EX, WI) PERMIT PROCESSING [FORM #: DER-CA 01]

OFFICE: BAQ

DATE	TIME BEGIN	TIME END	TOTAL TIME (15 MIN)	TASK	POSITION TITLE
4/21	10:30	11:30	1:00	Determined applic fee	ENG IV
5/3	12:30	1:30	1:00	Setting up folder, INITIAL REVIEW	
5/4	8:00	10:00	2:00	Initial applic review	
5/4	1:00	2:00	1:00	Began draft PD	
5/8	10:00	11:00	1:00	Continued draft PD	
5/8	11:30	2:30	1:00	Draft 1/2 letter	
6/27	8:30	8:45	0:15	Review 6/20 letter	
7/6	9:15	3:00	4:45	Review file / draft PD	
7/7	7:45	8:00	0:15	work on PD	
7/7	10:00	10:15	0:15	hooking @ BT connection on PD	
7/18			2:00	Draft PD	
7/28	9:30	11:30	2:00	Proof PD	
1/11			1:00	Corrected PD	
1/22			3:30	Drafted APLS	
2/2			1:00	purged files	
3/12					

Existing Moxer & Press Area
 AC 53-164185 + 164616

PERMIT #: 3-164185

APPLICANT NAME: Sikes Corp./Fla. Till Division

TYPE OF PERMIT: AC

SUBTYPE: 1E

STATUS: _____ (IS, DE, GP, EX, WI) PERMIT PROCESSING (FORM #: DER-CA 013)

OFFICE: BAQ

DATE	TIME BEGIN	TIME END	TOTAL TIME (15 MIN)	TASK	POSITION TITLE
5-15-89	10:20	10:25	5 min.	Typing letter to Wm Boakes	WPSO
"	10:50	11:05	15 min.	Typing + printing letter to Wm Boakes	WPSO
1-8-90	10:45	11:05	20 min.	Typed Memo, Notice, FINAL	Sec. Spec.
1-11-90	9:54	10:02	8 min.	Edit + Print Memo, Notice, FINAL Permits	Sec. Spec.

DOCUMENT SUMMARY

Library:
Title: TE/PD/Sikes/185 & 616
Document ID:
Author: Willard Hanks
Operator: Pat Manning
Comments: AC 53-164185 & 616

Number of Copies: 1
From Page: 1 To Page: 2
Starting Print Date/Time: 07/14/89 8:36

Notify PLM on System SYSTEM

STATISTICS

OPERATION	DATE	TIME	WORKTIME	KEYSTROKES
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Revised	07/13/89	16:12	:07	1035
Last Retrieved	/ /	:	from:	
Last Archived	/ /	:	to:	
Total Pages:	2	Total Worktime:	:49	
		Total Keystrokes:	4403	

DOCUMENT SUMMARY

Library:
Title: PKG/Sikes
Document ID:
Author: Willard Hanks
Operator: Pat Manning
Comments: AC 53-164185 & 616

Number of Copies: 1
From Page: 1 To Page: 6
Starting Print Date/Time: 07/14/89 8:37

Notify PLM on System SYSTEM

STATISTICS

OPERATION	DATE	TIME	WORKTIME	KEYSTROKES
Created	07/11/89	14:42	:00	
Revised	07/14/89	8:34	:01	11
Last Retrieved	/ /	:	from:	
Last Archived	/ /	:	to:	
Total Pages:	6	Total Worktime:	:24	
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DOCUMENT SUMMARY

Library:
Title: PER/Sikes/185
Document ID:
Author: Willard Hanks
Operator: Pat Manning
Comments: AC 53-164185

Number of Copies: 1
From Page: 1 To Page: 7
Starting Print Date/Time: 07/14/89 8:41

Notify PLM on System SYSTEM

STATISTICS

OPERATION	DATE	TIME	WORKTIME	KEYSTROKES
Created	07/11/89	14:43	:00	
Revised	07/13/89	16:51	:31	1147
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Total Pages:	7	Total Worktime:	:36	
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DOCUMENT SUMMARY

Library:
Title: PER/Sikes/616
Document ID:
Author: Willard Hanks
Operator: Pat Manning
Comments: AC 53-164616

Number of Copies: 1
From Page: 1 To Page: 7
Starting Print Date/Time: 07/14/89 8:42

Notify PLM on System SYSTEM

STATISTICS

OPERATION	DATE	TIME	WORKTIME	KEYSTROKES
Created	07/11/89	14:44	:00	
Revised	07/13/89	17:06	:08	88
Last Retrieved	/ /	:	from:	
Last Archived	/ /	:	to:	
Total Pages:	7	Total Worktime:	:08	
		Total Keystrokes:	88	

DOCUMENT SUMMARY

Library:
Title: TE/PD/Sikes/185 & 616
Document ID:
Author: Willard Hanks
Operator: Pat Manning
Comments: AC 53-164185 & 616

Number of Copies: 1
From Page: 1 To Page: 4
Starting Print Date/Time: 07/27/89 2:26

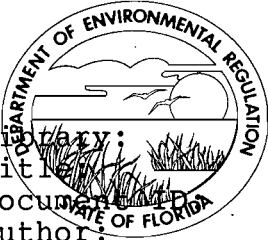
Notify PLM on System SYSTEM

STATISTICS

OPERATION	DATE	TIME	WORKTIME	KEYSTROKES
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Revised	07/27/89	10:40	:07	246
Last Retrieved	/ /	:	from:	
Last Archived	/ /	:	to:	
Total Pages:	4	Total Worktime:	:58	
		Total Keystrokes:	4667	

DOCUMENT SUMMARY

Florida Department of Environmental Regulation



Location: Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400
 Title: PKG/Sikes
 Document: Bob Martinez, Governor Dale Twachtmann, Secretary John Shearer, Assistant Secretary
 Author: Willard Hanks
 Operator: Pat Manning

Comments: AC 53-164185 & 616

Number of Copies: 1
 From Page: 1 To Page: 6
 Starting Print Date/Time: 07/27/89 2:24

Notify PLM on System SYSTEM

STATISTICS

OPERATION	DATE	TIME	WORKTIME	KEYSTROKES
Created	07/11/89	14:42	:00	
Revised	07/27/89	10:30	:47	150
Last Retrieved	/ /	:	from:	
Last Archived	/ /	:	to:	
Total Pages:	6	Total Worktime:	1:31	
		Total Keystrokes:	11135	



LAKE
ENGINEERING, INC.

December 20, 1989

Mr. C.H. Fancy, P.E., Deputy Chief
Bureau of Air Quality Management
Florida Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Mr. Fancy:

Enclosed is an original and two copies of the Affidavit of Publication for Florida Tile Div./Sikes Corp., DER File Nos. AC53-164185 and AC 53-164616. These items are submitted according to your letter to Florida Tile dated July 28, 1989.

If you need additional information, please contact me at your convenience.

Sincerely,

LAKE ENGINEERING, INC.

Randal M. Reynolds, P.E.
Project Manager

RMR:mhm

cc: Mr. Bill Thomas (w/enclosures)
FDER - Tampa Office

Ms. Sharon Bolling (w/enclosure)
Florida Tile

328.2.3

\\328-89\1219FANC.11L

RECEIVED
DEC 22 1989
DER-BAQM

AFFIDAVIT OF PUBLICATION

THE LEDGER Lakeland, Polk County, Florida

Case No.....

STATE OF FLORIDA)
COUNTY OF POLK)

Before the undersigned authority personally appeared Stephen DeWitt, 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 of Intent

in the matter of

Alter Press Area

in the

Court, was published in said newspaper in the issues of

November 28, 1989

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 post office 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

Stephen DeWitt
Controller

Sworn to and subscribed before me this

5th

December

89

A.D. 19



Barbara Thegper
Notary Public

NOTARY PUBLIC, STATE OF FLORIDA.
MY COMMISSION EXPIRES: NOV. 11, 1994.
BONDED THRU NOTARY PUBLIC UNDERWRITERS

State of Florida Department of Environmental Regulation Notice of Intent to Issue

The Department of Environmental Regulation hereby gives notice of its intent to issue permits to Sikes Corporation—Florida Tile Division, P. O. Box 447, Lakeland, Florida, 33802, to construct (alter) the existing press area (21 presses and 2 mixers) at their ceramic tile plant in Lakeland, Polk County, Florida. The project involves alterations to two existing baghouses and capture systems that control the emissions from presses and mixers in this part of the plant. The total particulate matter emissions from the altered equipment to 5.6 TPY will not cause a violation of any ambient air quality standard. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this intent to issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information:

- The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- A statement of how and when each petitioner received notice of the Department's action or proposed action;
- A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- A statement of the material facts disputed by Petitioner, if any;
- A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- A statement of which rules or statutes of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this Notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 285.207, F.A.C.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
Department of Environmental Regulation
Southwest District
4520 Live Oak Fair Blvd.
Tampa, Florida 33610-7347
Lakeland Public Library
100 Lake Morton Drive
Lakeland, Florida 33802

Any person may send written comments on the proposed action to Mr. Bill Thomas at the Department's Tallahassee address. All comments mailed within 14 days of the publication of this notice will be considered in the Department's final determination.
K-649 — 11-28, 1989

P 938 762 631

RECEIPT FOR CERTIFIED MAIL

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

PS Form 3800, June 1985

Sent to	Mr. William R. Boakes, Fla.
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	Mailed: 7-28-89 Permit: AC 53-164185 AC 53-164616

Tile

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. 2. Restricted Delivery (Extra charge)

3. Article Addressed to: Mr. William R. Boakes, Vice Pres. Sikes Corp./Fla. Tile Division P. O. Box 447 Lakeland, FL 33802	4. Article Number P 938 762 631
	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
	Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature - Address X <i>W. R. Boakes</i>	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X	
7. Date of Delivery JUL 31	



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

July 28, 1989

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

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

Dear Mr. Boakes:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permits for Sikes Corporation to construct (alter) the existing press area (21 presses and 2 mixers) at your ceramic tile plant in Lakeland, Polk County, Florida.

Please submit any written comments you wish to have considered concerning the Department's proposed action to Mr. Bill Thomas of the Bureau of Air Quality Management.

Sincerely,

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

CHF/WH/plm

Attachments

cc: Bill Thomas, SW District
Randal Reynolds, Lake Eng., Inc.

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of
Application for Permits by:

Sikes Corporation
Florida Tile Division
P. O. Box 447
Lakeland, FL 33802

DER File Nos. AC 53-164185
AC 53-164616

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its intent to issue permits (copies attached) for the proposed project as detailed in the applications specified above. The Department is issuing this Intent to Issue for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

The applicant, Sikes Corporation - Florida Tile Division, applied on April 21, 1989, to the Department of Environmental Regulation for a permit to construct (alter) the existing press area (21 presses and 2 mixers) at their ceramic tile plant in Lakeland, Polk County, Florida.

The Department has permitting jurisdiction under Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 and 17-4. The project is not exempt from permitting procedures. The Department has determined that air construction permits are required for the proposed work.

Pursuant to Section 403.815, F.S. and DER Rule 17-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permits. The notice shall be published one time only within 30 days, in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. The applicant shall provide proof of publication to the Department, at the address specified within seven days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permits.

The Department will issue the permits with the attached conditions unless a petition for an administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, F.S.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant and the parties listed below must be filed within 14 days of receipt of this intent. Petitions filed by other persons must be filed within 14 days of publication of the public notice or within 14 days of receipt of this intent, whichever first occurs. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information:

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

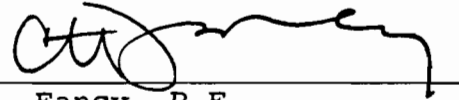
(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office in General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person

has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



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

Copies furnished to:

Bill Thomas, SW District
Randal Reynolds, Lake Eng., Inc.

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on 7-28-89.

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to
§120.52(9), Florida Statutes, with
the designated Department Clerk,
receipt of which is hereby
acknowledged.

Martha Wise
Clerk

7-28-89
Date

State of Florida
Department of Environmental Regulation
Notice of Intent to Issue

The Department of Environmental Regulation hereby gives notice of its intent to issue permits to Sikes Corporation - Florida Tile Division, P. O. Box 447, Lakeland, Florida 33802, to construct (alter) the existing press area (21 presses and 2 mixers) at their ceramic tile plant in Lakeland, Polk County, Florida. The project involves alterations to two existing baghouses and capture systems that control the emissions from presses and mixers in this part of the plant. The total particulate matter emissions from the altered equipment of 5.6 TPY will not cause a violation of any ambient air quality standard. A determination of Best Available Control Technology (BACT) was not required. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Regulation
Bureau of Air Quality Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Dept. of Environmental Regulation
Southwest District
4520 Live Oak Fair Blvd.
Tampa, Florida 33610-7347

Lakeland Public Library
100 Lake Morton Drive
Lakeland, Florida 33802

Any person may send written comments on the proposed action to Mr. Bill Thomas at the Department's Tallahassee address. All comments mailed within 14 days of the publication of this notice will be considered in the Department's final determination.

Technical Evaluation
and
Preliminary Determination

Sikes Corporation
Florida Tile Division
Lakeland, Polk County, Florida

Existing Trim Press Area Alteration

System No. 1 - AC 53-164185
Mixer No. 1 and 9 Trim Presses Controlled
with a Micro-Pulsair Dust Collector

System No. 2 - AC 53-164616
Mixer No. 2 and 12 Trim Presses Controlled
with a W. W. Sly Dust Collector

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

July 28, 1988

I. General Information

A. Applicant

Sikes Corporation
Florida Tile Division
Post Office Box 447
Lakeland, Florida 33802

B. Request

On April 21, 1989, Mr. Randal M. Reynolds of Lake Engineering, Inc., submitted an application for permit to construct (alter) the wet bin, mixer, and press area at Sikes Corporation's existing tile manufacturing facility (SIC 3253). The application was considered complete on June 22, 1989.

C. Project and Location

Sikes Corporation proposes to modify the air pollution control system serving the wet bin, mixer, and press area at the existing ceramic tile manufacturing facility located at 1 Sikes Blvd., Lakeland, Polk County, Florida. The UTM coordinates of this plant are Zone 17, 405.2 km E and 3,102.4 km N.

The existing trim presses (21), mixers (2), and wet bins (2) will be refitted with a ventilation system connected to the existing W. W. Sly (AO 53-153937) and Micro-Pulsair (AO 53-148916) dust collectors. The Pangborn C-80 baghouse (AO 53-148918) will be removed from service after being replaced by the W. W. Sly dust collector which was recently taken out of service in conjunction with an earlier facility modification (AC 53-158856). The air pollution collection system has been redesigned to require approximately 25% less air flow to the W. W. Sly and Micro-Pulsair baghouses.

D. Process and Emissions

A tile slurry (averaging 2,018 lbs/hr) from other sections of this facility, which are not addressed by this determination, pass through a wet bin and mix system before being sent to the presses. The presses stamp the clay mixture into the shape of finished tiles which are conveyed to other process equipment for curing. The curing equipment is not addressed by this determination.

Hoods and ducts collect the particulate matter that escapes from the wet bins, mixers, and presses and carry it to the W. W. Sly and Mikro-Pulsair baghouses.

The Micro-Pulsair baghouse serves wet bin and mix system No. 1 along with 9 presses. Maximum particulate matter emissions

are estimated to be 0.88 lbs/hr and, based on 8,232 hrs/yr of operation, 3.6 TPY.

The W. W. Sly baghouse serves wet bin and mix system No. 2 and 12 presses. Maximum particulate matter emissions are estimated to be 0.49 lbs/hr and, based on 8,232 hrs/yr operation, 2 TPY.

Maximum total particulate matter emissions from both baghouses are 1.37 lbs/hr and 5.6 TPY.

II. Rule Applicability

The proposed project, modifications to the existing wet bin, mix, and trim press area of a tile manufacturing facility (SIC 3253), is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code.

The plant is in an area designated attainment for all criteria pollutants (F.A.C. 17-2.420).

The project is at a major facility whose allowable particulate matter (PM) emissions exceed 100 TPY (F.A.C. 17-2.100). Tile manufacturing plants are not on the list of major facility categories, Table 500-1. The increase in emissions from the proposed project are less than the significant emissions rates listed in Table 500-2.

The project is subject to F.A.C. 17-2.520, Sources Not Subject to Prevention of Significant Deterioration or Nonattainment Requirements. The allowable emissions will be set at the rates requested by the applicant. Higher emissions could subject this project to different regulations.

III. Technical Evaluation

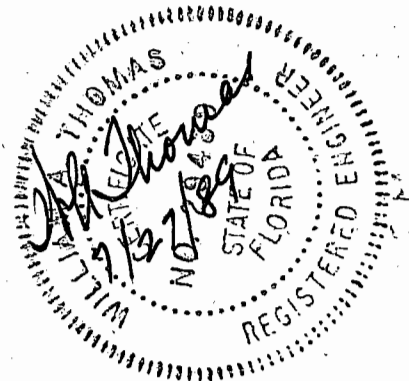
The Micro-Pulsair baghouse serving wet bin and mixer No. 1 and 9 trim presses will use 3,770 sq. ft. of filter to treat 21,400 CFM of air (Air:Cloth = 5.7:1). The W. W. Sly baghouse serving wet bin and mixer No. 2 and 12 trim presses will use 7,062 sq. ft. of filter to treat 12,000 CFM of air (Air:Cloth = 1.7:1). The applicant estimates these baghouses are 99.6% efficient and particulate matter emissions will be 0.004 grains/ft³. An allowable emission 20% higher than these estimates was requested to account for equipment wear and process fluctuation. Thus, the allowable particulate matter emissions requested are less than the General Particulate Emission Limiting Standards, F.A.C. 17-2.610.

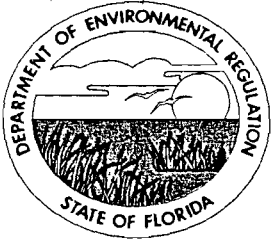
IV. Air Quality Analysis

It is the judgement of the Department that the estimated PM emissions from the proposed operation will not violate any ambient air quality standard.

V. Conclusion

Based on the information provided by Sikes Corporation - Florida Tile Division, the Department has reasonable assurance that the proposed alterations to the existing wet bin, mixer, and press area, as described in this evaluation and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of Chapter 17-2 of the Florida Administrative Code.





Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:
Sikes Corporation
Florida Tile Division
P.O. Box 447
Lakeland, Florida 33802

Permit Number: AC 53-164185
Expiration Date: June 1, 1990
County: Polk
Latitude/Longitude: 28°02'45"N
81°57'45"W
Project: System No. 1, Press
Area

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

Alterations to the existing press area that will result in the Micro-Pulsair dust collector controlling the particulate matter emissions from the wet bin and mixer No. 1 and 9 trim presses.

The source shall be in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application received April 21, 1989.
2. DER letter dated May 30, 1989.
3. Lake Engineering, Inc. letter dated June 20, 1989.

PERMITTEE:
Sikes Corporation

Permit Number: AC 53-164185
Expiration Date: June 1, 1990

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

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. Neither 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 is not 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, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; 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:
Sikes Corporation

Permit Number: AC 53-164185
Expiration Date: June 1, 1990

GENERAL CONDITIONS:

6. The permittee shall 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 and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor 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 provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including 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.

PERMITTEE:
Sikes Corporation

Permit Number: AC 53-164185
Expiration Date: June 1, 1990

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 for 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 involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

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 17-4.120 and 17-30.300, F.A.C., 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 or a copy thereof shall be kept at the work site of the permitted activity.

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:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

PERMITTEE:
Sikes Corporation

Permit Number: AC 53-164185
Expiration Date: June 1, 1990

GENERAL CONDITIONS:

b. The permittee shall hold 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) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained 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 dates 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 corrected promptly.

SPECIFIC CONDITIONS:

1. This review is based on the production of the 21 trim presses in the existing press area producing an average of 2,018 lbs/hr of green tiles.

2. The presses may operate 24 hrs/day, 7 days/week, 49 weeks/year or 8,232 hrs/year.

3. The permittee shall maintain logs that can be used to determine the production and hours of operation of the trim presses.

PERMITTEE:
Sikes Corporation

Permit Number: AC 53-164616
Expiration Date: June 1, 1990

SPECIFIC CONDITIONS:

4. All reasonable precautions shall be taken to minimize generation of unconfined emissions of particulate matter in accordance with the provisions in F.A.C. 17-2.610(3). These provisions are applicable to any source including, but not limited to, vehicular movement, transportation of materials, construction, demolition or wrecking, or industrial related activities such as loading, unloading, storing, handling, and processing of materials. Reasonable precautions shall include, but are not limited to, wetting or cleaning of areas generating unconfined emissions.

5. Pursuant to F.A.C. 17-2.620(2), the permittee shall not allow the discharge of air pollutants which cause or contribute to an objectionable odor.

6. Particulate matter emissions from the W. W. Sly baghouse controlling system No. 2 (wet bin and mixer No. 2 and 12 trim presses) shall not exceed 0.49 lbs/hr (2 TPY) or 5% opacity.

7. This source shall be tested for particulate matter emissions, while it is operating at its permitted capacity, by EPA Methods 1, 2, 4, and 5 if visible emissions, as determined by EPA Method 9, exceed 5% opacity. Specifications for the referenced test methods are listed in F.A.C. 17-2.700(6)(b), (Dec. 5, 1988).

8. The Department's Southwest District office in Tampa shall be notified at least 15 days prior to any compliance tests.

9. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to BAQM prior to 60 days before the expiration of the permit (F.A.C. 17-4.090).

10. An application for an operation permit must be submitted to the Southwest District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that

PERMITTEE:
Sikes Corporation

Permit Number: AC 53-164185
Expiration Date: June 1, 1990

SPECIFIC CONDITIONS:

construction was completed noting any deviation from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. 17-4.220).

Issued this _____ day
of _____, 1989

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

Dale Twachtman, Secretary



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

PERMITTEE:
Sikes Corporation
Florida Tile Division
P.O. Box 447
Lakeland, Florida 33802

Permit Number: AC 53-164616
Expiration Date: June 1, 1990
County: Polk
Latitude/Longitude: 28°02'45"N
81°57'45"W
Project: System No. 1, Press
Area

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

Alterations to the existing press area that will result in the W. W. Sly baghouse controlling the particulate matter emissions from wet bin and mixer No. 2 and 12 trim presses.

The source shall be in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application received April 21, 1989.
2. DER letter dated May 30, 1989.
3. Lake Engineering, Inc. letter dated June 20, 1989.

PERMITTEE:
Sikes Corporation

Permit Number: AC 53-164616
Expiration Date: June 1, 1990

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

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. Neither 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 is not 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, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; 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:
Sikes Corporation

Permit Number: AC 53-164616
Expiration Date: June 1, 1990

GENERAL CONDITIONS:

6. The permittee shall 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 and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor 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 provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including 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.

PERMITTEE:
Sikes Corporation

Permit Number: AC 53-164616
Expiration Date: June 1, 1990

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 for 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 involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

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 17-4.120 and 17-30.300, F.A.C., 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 or a copy thereof shall be kept at the work site of the permitted activity.

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:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

PERMITTEE:
Sikes Corporation

Permit Number: AC 53-164616
Expiration Date: June 1, 1990

GENERAL CONDITIONS:

b. The permittee shall hold 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) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained 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 dates 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 corrected promptly.

SPECIFIC CONDITIONS:

1. This review is based on the production of the 21 trim presses in the existing press area producing an average of 2,018 lbs/hr of green tiles.

2. The presses may operate 24 hrs/day, 7 days/week, 49 weeks/year or 8,232 hrs/year.

3. The permittee shall maintain logs that can be used to determine the production and hours of operation of the trim presses.

PERMITTEE:
Sikes Corporation

Permit Number: AC 53-164185
Expiration Date: June 1, 1990

SPECIFIC CONDITIONS:

4. All reasonable precautions shall be taken to minimize generation of unconfined emissions of particulate matter in accordance with the provisions in F.A.C. 17-2.610(3). These provisions are applicable to any source including, but not limited to, vehicular movement, transportation of materials, construction, demolition or wrecking, or industrial related activities such as loading, unloading, storing, handling, and processing of materials. Reasonable precautions shall include, but are not limited to, wetting or cleaning of areas generating unconfined emissions.
5. Pursuant to F.A.C. 17-2.620(2), the permittee shall not allow the discharge of air pollutants which cause or contribute to an objectionable odor.
6. Particulate matter emissions from the Micro-Pulsaire baghouse controlling system No. 1 (wet bin and mixer No. 1 and 9 trim presses) shall not exceed 0.9 lbs/hr (3.6 TPY) or 5% opacity.
7. This source shall be tested for particulate matter emissions, while it is operating at its permitted capacity, by EPA Methods 1, 2, 4, and 5 if visible emissions, as determined by EPA Method 9, exceed 5% opacity. Specifications for the referenced test methods are listed in F.A.C. 17-2.700(6)(b), (Dec. 5, 1988).
8. The Department's Southwest District office in Tampa shall be notified at least 15 days prior to any compliance tests.
9. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to BAQM prior to 60 days before the expiration of the permit (F.A.C. 17-4.090).
10. An application for an operation permit must be submitted to the Southwest District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that

PERMITTEE:
Sikes Corporation

Permit Number: AC 53-164616
Expiration Date: June 1, 1990

SPECIFIC CONDITIONS:

construction was completed noting any deviation from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. 17-4.220).

Issued this _____ day
of _____, 1989

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

Dale Twachtmann, Secretary

Best Available Copy

PM
6-20-89
Atlanta, GA

file copy

LAKE ENGINEERING, INC.

6000 LAKE FORREST DRIVE
SUITE 350
ATLANTA, GEORGIA 30328

June 20, 1989

RECEIVED
JUN 22 1989
DER-bnyw

Mr. C.H. Fancy, P.E., Deputy Chief
Bureau of Air Quality Management
Florida Department of Environmental Regulation
Twin Towers Office Bldg.
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Mr. Fancy:

Florida Tile and Lake Engineering have received your letter dated May 30, 1989, concerning the existing mixer and trim press area (AC 53-164185). The following paragraphs address each item in your letter.

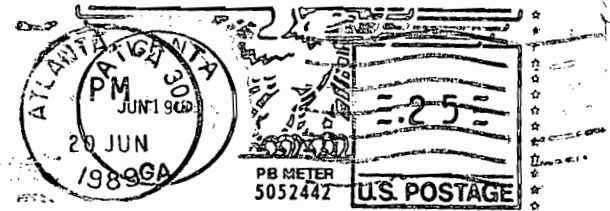
1. Two wet bins are associated with mixer system no. 1 as shown on dwg. no. M-2822-B in the application. The wet bins will be vented to the existing Mikro-Pulsaire collector. The wet bins are used only to store tile body from mixer no. 1. Mixer no. 1 and the wet bins will be removed at the completion of the new body preparation system. At that time ductwork will be blanked off to the Mikro-Pulsaire collector.
2. Dust collected by baghouses is to be pneumatically transported in an enclosed cycloloc system produced by the Cyclonaire Co.

Transported dust is to be received into an enclosed storage tank equipped with a bin vent system to prevent dust escape. This dust will be fed back into the process in measured amounts to either wet blungers (mixers) or ball mills.

Movement of dust from the storage tank into blungers or ball mills will be fitted with proper hooding and dust collection to prevent dust escape.

3. The allowable and actual particulate matter and PM₁₀ emissions from the Pangborn C-80 baghouse are shown on the calculation sheets attached to this letter.

LAKE ENGINEERING AND DEVELOPMENT, INC.
6000 LAKE FORREST DRIVE
SUITE 350
ATLANTA, GEORGIA 30328



Mr. C.H. Fancy, P.E., Deputy Chief
Bureau of Air Quality Management
Florida Department of Environmental
Regulation
Twin Towers Office Bldg.
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Mr. C.H. Fancy, P.E., Deputy Chief
June 20, 1989
Page Two

4. The W.W. Sly baghouse was shut down for a period of several months and the former process equipment was completely dismantled. The baghouse was cleaned out and refurbished and will be fitted with well designed ductwork to increase hood capture efficiency at the trim presses.
5. None of the existing trim presses (21 each), mixer no. 1 or mixer no. 2 are covered in any other application. A table of presses included in the W.W. Sly/Mikro-Pulsaire application is attached. Also dwg. no M-2821-D is enclosed and should classify the various press areas.

If you need additional information, please give me a call.

Sincerely,

LAKE ENGINEERING, INC.



Randal M. Reynolds, P.E.
Project Manager

RMR:mhm

Enclosures

cc: Mr. Bill Boakes
Mr. Bill Gandy

328.2.1

*copies: St. Hanks
B. Thomas, SW Dist.
CHF/BT*

EQUIPMENT LIST

EXISTING TRIM PRESS AREA

Quantity

1 each	Crosley No. 2 press
11 each	Crosley No. 3 presses
3 each	Crosley No. 5 presses
4 each	Weiland No. 6 presses
2 each	Weiland No. 7 presses

21 each	

Figure C.2-2. CALCULATION SHEET.

SOURCE IDENTIFICATION

Source name and address: Florida Tile Division/Sikes Corporation
Lakeland, FL

Process description: Pangborn C-80 baghouse shut-down

AP-42 Section: Appendix C.2, Table C.2-1

Uncontrolled AP-42 emission factor: NA (units)

Activity parameter: NA (units)

Uncontrolled emissions: 901 tons/yr. (units)

Estimated actual controlled emissions 23.6 tons/yr. (units)

UNCONTROLLED SIZE EMISSIONS

Category name: Aggregate, unprocessed ores

Category number: 3

	Particle size (μm)		
	≤ 2.5	≤ 6	≤ 10
Generic distribution, Cumulative percent equal to or less than the size:	15	34	51
Cumulative mass \leq particle size emissions (tons/year):	135	306	460

CONTROLLED SIZE EMISSIONS*

Type of control device: shaker baghouse (1950's)

	Particle size (μm)		
	0 - 2.5	2.5 - 6	6 - 10
Collection efficiency (estimated XXXXXX):	90	98	98
Mass in size range** before control (tons/year):	135	171	154
Mass in size range after control: (tons/year):	13.5	3.42	3.08
Cumulative mass (tons/year):	13.5	16.92	20.0

* These data do not include results for the greater than 10 μm particle size range.

** Uncontrolled size data are cumulative percent equal to or less than the size. Control efficiency data apply only to size range and are not cumulative.

P 938 762 577

RECEIPT FOR CERTIFIED MAIL

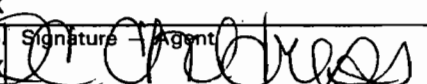
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

PS Form 3800, June 1985

Sent to	Mr. William R. Boakes, Sikes Corp.
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	Mailed: 5-30-89 Permit: AC 53-164185

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

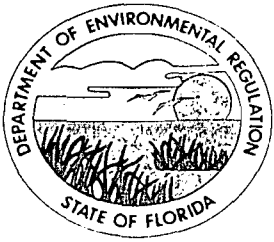
1. Show to whom delivered, date, and addressee's address. (Extra charge) 2. Restricted Delivery (Extra charge)

3. Article Addressed to: Mr. William R. Boakes, Vice Pres. Sikes Corp./Florida Tile Div. P. O. Box 447 Lakeland, Florida 33802	4. Article Number P 938 762 577
	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
	Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature -- Address X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature -- Agent X 	
7. Date of Delivery 6-1-89	

PS Form 3811, Mar. 1988

★ U.S.G.P.O. 1988-212-865

DOMESTIC RETURN RECEIPT



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

May 30, 1989

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

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

Dear Mr. Boakes:

Re: File No. AC 53-164185, Existing Mixer and Press Area

The Department has made a preliminary review of your application for permit to modify the existing mixer and press area controlled by W. W. Sly and Mikro-Pulsaire baghouses. Before the application can be processed, we need the following information:

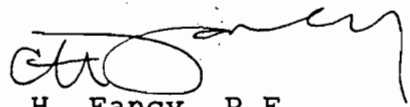
1. A general description of the operation of the wet bin mix system, and presses.
2. How is the dust collected by the baghouses recycled to the process and what precautions are used to minimize fugitive emissions when handling this dust?
3. What were the allowable and actual particulate matter and PM₁₀ emissions from the Pangborn C-80 baghouse that will be dismantled?
4. Is the W. W. Sly baghouse proposed to control mixer No. 2 and 12 presses the same unit that Lake Engineering, Inc. said would be shut down in their February 15, 1989 letter?

Mr. William R. Boakes
Page Two
May 30, 1989

5. Are any of the presses addressed in this application (Existing Press Area (21 Presses), Mixer No. 1 and No. 2 with W. W. Sly and Mikro-Pulsaire Baghouses) also covered by your previous application (Press Areas including Five Existing Dorst Presses, Four Replacement Trim Presses, and Two Pneumafil Baghouses)? If so, please write a brief description of the final process equipment and air pollution control system planned for your facility.

We will resume processing the application after we receive the requested information. If you have any questions on this matter, please write to me or call Willard Hanks at (904) 488-1344.

Sincerely,



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

CHF/WH/plm

cc: Bill Thomas, SW District
Randal Reynolds, P.E.

LAKE ENGINEERING, INC.

6000 LAKE FORREST DRIVE
SUITE 350
ATLANTA, GEORGIA 30328

RECEIVED
OPER - MAIL ROOM
1989 MAY -1 AM 11:14

April 28, 1989

Mr. C. H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management
Florida Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

RE: Florida Tile Division/Sikes Corporation
Air Permit Application: Existing Trim Press Area
Modifications

Dear Mr. Fancy:

Enclosed is a check for \$200.00 to cover the application fee for the source referenced above. The application was submitted to your office by letter dated April 20, 1989. Your staff requested the fee by telephone on April 25, 1989.

If you have any questions, please contact me at your convenience.

Sincerely,

LAKE ENGINEERING, INC.



Randal M. Reynolds, P.E.
Project Manager

RMR:kdf

Enclosure

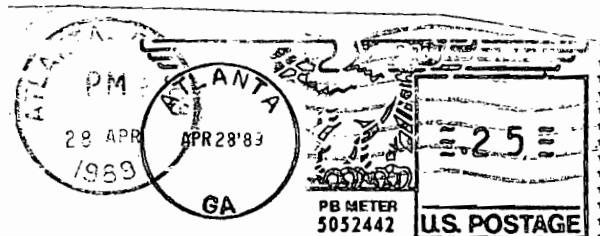
cc: Mr. Bill Boakes

328.2

*copied to H. Hanks
B. Thomas, SW Dist*

1031

LAKE ENGINEERING AND DEVELOPMENT, INC.
6000 LAKE FORREST DRIVE
SUITE 350
ATLANTA, GEORGIA 30328



Mr. C.H. Fancy, P.E.
Deputy Chief
Bureau of Air Quality Management
Florida Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400



LAKE ENGINEERING, INC.

6000 LAKE FORREST DRIVE
SUITE 350
ATLANTA, GEORGIA 30328

April 20, 1989

RECEIVED
APR 21 1989
DER-BAQM

Mr. C.H. Fancy, P.E., Deputy Chief
Bureau of Air Quality Management
Florida Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

RE: Florida Tile Division/Sikes Corporation
Air Permit Application: Existing Trim Press Area
Modifications

Dear Mr. Fancy:

Enclosed is an original and three copies of an application for permit modification for the existing trim press area (21 presses), Mixer Nos. 1 and 2. This application includes the existing W.W. Sly baghouse (formerly A053-153937) and Mikro-Pulsaire (A053-148916) dust collector. No additional emission points are included in the application, therefore no application fee is required.

Please note in the application that the physical emission points of the baghouses are not modified by this application. Notice that the number and type of process sources is being revised and that the air volume flowrate is reduced 25 percent for each collector compared to the previous design. We believe that the improved system design will result in decreased emissions to the atmosphere.

One important part of this project is the complete replacement and dismantling of the Pangborn dust collector (A053-148918). The replacement of the Pangform will be accomplished gradually by connecting the new ductwork one press at a time to either the Sly or Mikro-Pulsaire collector. The current production schedule limits the number of hours available for making the new duct connections. When all new connections are made then the Pangborn collector will be dismantled.

The enclosed permit application includes estimated total emissions of particulates of 4.7 tons per year. We believe that these estimated emissions plus 20 percent, to allow for future wear

Mr. C.H. Fancy
April 20, 1989
Page Two

and tear and aging of the equipment, would be acceptable for permit conditions. The adjusted total permitted emissions from the two baghouses described in the application would be 5.64 tons per year.

If you have any questions, please contact me at your convenience.

Sincerely,

LAKE ENGINEERING, INC.

A handwritten signature in cursive script that reads "Randal M. Reynolds".

Randal M. Reynolds, P.E.
Project Manager

RMR:kdf

Enclosures

cc: Mr. Bill Boakes

328.2.1



SIKES CORPORATION • P. O. BOX 447 • LAKELAND, FLORIDA 33802

No 011280

631

SUN FIRST NATIONAL BANK OF POLK COUNTY
LAKELAND, FLORIDA

DATE April 26, 1989 \$ *200.00*

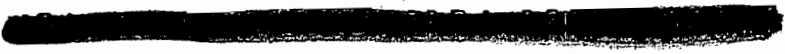
PAY SIKES CORP. 200 DOLS 00 CTS DOLLARS

TO
THE
ORDER
OF

FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

SIKES CORPORATION

Randal M. Reynolds
AUTHORIZED SIGNATURE



DETACH AND RETAIN THIS STATEMENT
The Attached Check Is In Payment of Items Described Below
If Not Correct Please Notify Us Promptly. No Receipt Desired

DESCRIPTION		
Application fee for dust collection for new trim presses.		
4-26-89	200.00	11-175-409

SIKES CORPORATION

No 011280

Randy Reynolds
Randal M. Reynolds, P.E.
Project Manager

Killard, 4-21
Please look at
this application -
Isn't this "modification"
significant enough
to warrant \$500?
Let me know ASAP
because we can't start
processing without it -
Thanks,
Patty

*IC called R. Reynolds
4-25-89
still have FL
site send \$200*



#200 pd
5-1-89
AC 53-164616 - Micro Recept. 117610
AC 53-164185 - Sly Pulse

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

RECEIVED
APR 21 1989
DER-BAQM

SOURCE TYPE: industrial, stationary [] New¹ [X] Existing¹
APPLICATION TYPE: [] Construction [] Operation [X] Modification
COMPANY NAME: Florida Tile Div./Sikes Corp. 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) Existing press area (21 presses), Mixer No. 1 and No. 2 with W.W. Sly and Mikropulsaire baghouses. 1 Sikes Blvd. City Lakeland

SOURCE LOCATION: Street _____
UTM: East 405,200 North 3,102,400
Latitude 28° 02' 45" N Longitude 81° 57' 45" W

APPLICANT NAME AND TITLE: W.R. Boakes, Vice President, Devel. & Engineering
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 Div./Sikes Corp.

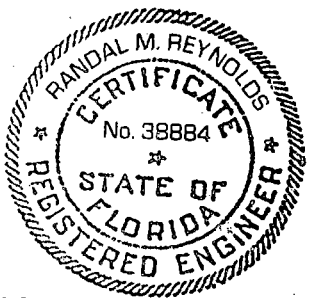
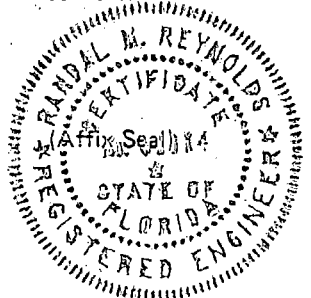
I certify that the statements made in this application for a modification permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision 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: April 17, 1989 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: Randal M. Reynolds
Randal M. Reynolds, P.E.
Name (Please Type)
Lake Engineering, Inc.
Company Name (Please Type)
6000 Lake Forrest Drive, Suite 350
Atlanta, GA 30328
Mailing Address (Please Type)
Date: Apr. 14, 1989 Telephone No. 404/257-9634

¹See 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 attached sheet)

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

Start of Construction April 1989 Completion of Construction August 1989

- 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.)

(NA)

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

A053-153937 W.W. Sly Baghouse Permit Deleted: 2/15/89

A053-148916 Mikro-Pulsaire Expires: 8/26/93

SECTION II
GENERAL PROJECT INFORMATION

This project is a continuation of a comprehensive program of upgrading and modifying the production equipment at the Lakeland facility. The existing trim presses (21 each), Mixer No. 1 and No. 2 will be refitted with ventilation dust control using the existing Sly and Mikro-Pulsaire baghouses. No new dust collectors will be required. Each collector will be fitted with new ductwork and hoods.

As part of this project, the Pangborn C-80 baghouse will be disconnected and totally removed from the plant. This will result in a significant reduction in particulate emissions. Additional reductions in emissions will occur because the Sly and Mikro-Pulsaire baghouses will be operated at lower air volume flowrates.

The project is expected to be in full compliance with applicable rules and regulations. The baghouses are redesigned for less air volume flowrates and well design ductwork systems. These modifications will insure proper baghouse performance and collection efficiency.

E. Requested permitted equipment operating time: hrs/day 24; days/wk 7; wks/yr 49;
if power plant, hrs/yr _____; if seasonal, describe: (NA)

F. 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? (NA)
b. If yes, has "Lowest Achievable Emission Rate" been applied? (NA)
c. If yes, list non-attainment pollutants. (NA)

2. Does best available control technology (BACT) apply to this source?
If yes, see Section VI. No

3. Does the State "Prevention of Significant Deterioration" (PSD)
requirement apply to this source? If yes, see Sections VI and VII. No

4. Do "Standards of Performance for New Stationary Sources" (NSPS)
apply to this source? No

5. Do "National Emission Standards for Hazardous Air Pollutants"
(NESHAP) apply to this source? No

H. Do "Reasonably Available Control Technology" (RACT) requirements apply
to this source? No

a. If yes, for what pollutants? (NA)

b. If yes, in addition to the information required in this form,
any information requested in Rule 17-2.650 must be submitted.

Attach all supportive information related to any answer of "Yes". Attach any justifi-
cation 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	particulates	<0.5	2,018*	(NA)
*Total of all presses taken together on a running average basis.				

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

1. Total Process Input Rate (lbs/hr): 2,018

2. Product Weight (lbs/hr): 2,018

C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of Contaminant	Emission ¹		Allowed Emission Rate per Rule 17-2	Allowable ³ Emission lbs/hr	Potential ⁴ Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/yr	T/yr	
Sly Particulates	0.41	1.7	(NA)	(NA)	103	(NA)	(NA)
M.P. Particulates	0.73	3.0	(NA)	(NA)	183	(NA)	(NA)

¹See Section V, Item 2.

²Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input)

³Calculated from operating rate and applicable standard.

⁴Emission, if source operated without control (See Section V, Item 3).

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
W.W. Sly 107 EE 360	Particulates	99.6	10 to 100	(guess)
Mikro-Pulsaire 320S-10-20	Particulates	99.6	10 to 100	Mfgs. data

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
	(NOT APPLICABLE)		

*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--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.

Collected dust is recycled to the process.

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

Stack Height: (See Table 1) _____ ft. Stack Diameter: _____ ft.
 Gas Flow Rate: _____ ACFM _____ DSCFM Gas Exit Temperature: _____ °F.
 Water Vapor Content: _____ % Velocity: _____ FPS

SECTION IV: INCINERATOR INFORMATION

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated			(NOT APPLICABLE)				
Uncontrolled (lbs/hr)							

Description of Waste _____

Total Weight Incinerated (lbs/hr) _____ Design Capacity (lbs/hr) _____

Approximate Number of Hours of Operation per day _____ day/wk _____ wks/yr. _____

Manufacturer _____

Date Constructed _____ Model No. _____

	Volume (ft) ³	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) _____

TABLE 1
EMISSION STACK GEOMETRY AND FLOW CHARACTERISTICS

<u>Item</u>	<u>Sly 107 EE 360</u>	<u>Mikro-Pulsaire 320S-10-20</u>
Stack height, feet	35	28
Stack outlet, inches	24 x 27	32 x 34
Gas flow, ACFM	12,000	21,400
Gas temperature, ° F	(ambient)	(ambient)
Moisture content, %	(ambient)	(ambient)
Exit velocity, fps	44.4	47.2

Brief description of operating characteristics of control devices: (NA)

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, etc.):

(NA)

NOTE: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.

SECTION V: SUPPLEMENTAL REQUIREMENTS

(See attached sheets)

Please provide the following supplements where required for this application.

1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
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, design pressure drop, 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 8 1/2" 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 8 1/2" 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 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.

SECTION V
SUPPLEMENTAL DATA

Total process input rate and product weight

The existing trim presses (21 each) operate at different times to produce different pieces of trim tile. On the whole, the presses taken together produce an average of 2,018 lbs./hr.

Basis of potential emissions (uncontrolled)

	<u>Sly</u>	<u>Mikro-Pulsaire</u>
Assumed dust loading, gr/ft ³	1.0	1.0
Air volume, CFM	12,000	21,400
Estimated inlet dust loading, lbs./hr.	103	183

Basis of controlled emissions

	<u>Sly</u>	<u>Mikro-Pulsaire</u>
Inlet dust loading, lbs./hr.	103	183
Collection efficiency, %	99.6	99.6
Exhaust dust loading, lbs./hr.	0.41	0.73
Exhaust emissions, tpy	1.7	3.0

Air emission control equipment

	<u>Sly 107 EE 360</u>	<u>Mikro-Pulsaire</u> <u>320S-10-20</u>
No. of bags	321	320
Bag length, ft.	N/A	10
Cloth area, ft. ²	7,062	3,770
Air:cloth ratio	1.70 to 1	5.7 to 1
Date Installed	1965	1983

Drawings

See Attachment 1



Best Available Copy

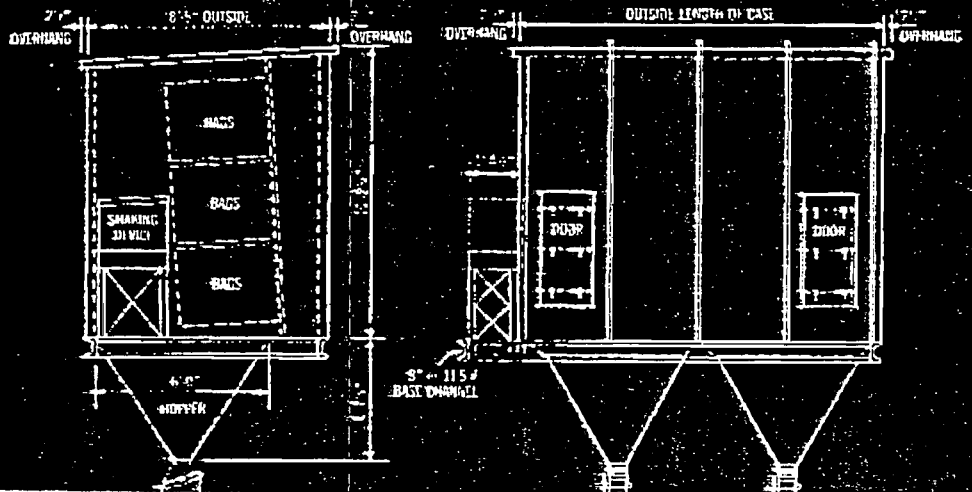
TYPE 360 SHAKER-CLEANED DUST FILTER CAPACITIES

3 Tiers of Bags and 60° Hoppers

17	3'-7"	51	1122	1683	2244	2805	3366	3927	4488	1
22	4'-7"	66	1452	2178	2904	3630	4356	5082	5808	
28	5'-7"	84	1848	2772	3696	4620	5544	6468	7392	
34	6'-7"	102	2244	3366	4488	5610	6732	7854	8976	
39	7'-7"	117	2574	3861	5148	6435	7722	9009	10296	2
45	8'-7"	135	2970	4455	5940	7425	8910	10395	11880	
51	9'-7"	153	3366	5049	6732	8415	10098	11781	13464	
56	10'-7"	168	3696	5544	7392	9240	11088	12936	14784	
62	11'-7"	186	4092	6138	8184	10230	12276	14322	16368	3
68	12'-7"	204	4488	6732	8976	11220	13464	15708	17952	
73	13'-7"	219	4818	7227	9636	12045	14454	16863	19272	
79	14'-7"	237	5214	7821	10428	13035	15642	18249	20856	
85	15'-7"	255	5610	8415	11220	14025	16830	19635	22440	4
90	16'-7"	270	5940	8910	11880	14850	17820	20790	23760	
96	17'-7"	288	6336	9504	12672	15840	19008	22176	25344	
102	18'-7"	306	6732	10098	13464	16830	20196	23562	26928	
107	19'-7"	321	7062	10593	14124	17655	21186	24717	28248	5
113	20'-7"	339	7458	11187	14916	18645	22374	26103	29832	
119	21'-7"	357	7854	11781	15708	19635	23562	27489	31416	
124	22'-7"	372	8184	12276	16368	20460	24552	28644	32736	
130	23'-7"	390	8580	12870	17160	21450	25740	30030	34320	6
136	24'-7"	408	8976	13464	17952	22440	26928	31416	35904	
141	25'-7"	423	9306	13959	18612	23265	27918	32571	37224	
147	26'-7"	441	9702	14553	19404	24255	29106	33957	38808	
153	27'-7"	459	10098	15147	20196	25245	30294	35343	40392	7
158	28'-7"	474	10428	15642	20856	26070	31284	36498	41712	
164	29'-7"	492	10824	16236	21648	27060	32472	37884	43296	
170	30'-7"	510	11220	16830	22440	28050	33660	39270	44880	
175	31'-7"	525	11550	17325	23100	28875	34650	40425	46200	8
181	32'-7"	543	11946	17919	23892	29865	35838	41811	47784	
187	33'-7"	561	12342	18513	24684	30855	37026	43197	49368	
192	34'-7"	576	12672	19008	25344	31680	38016	44352	50688	
198	35'-7"	594	13068	19602	26136	32670	39204	45738	52272	9
204	36'-7"	612	13464	20196	26928	33660	40392	47124	53856	
208	37'-7"	627	13794	20691	27588	34485	41382	48279	55176	
215	38'-7"	645	14190	21285	28380	35475	42570	49665	56760	
221	39'-7"	663	14586	21879	29172	36465	43758	51051	58344	10
226	40'-7"	678	14916	22374	29832	37290	44748	52206	59664	
232	41'-7"	696	15312	22968	30624	38280	45936	53592	61248	
238	42'-7"	714	15708	23562	31416	39270	47124	54978	62832	

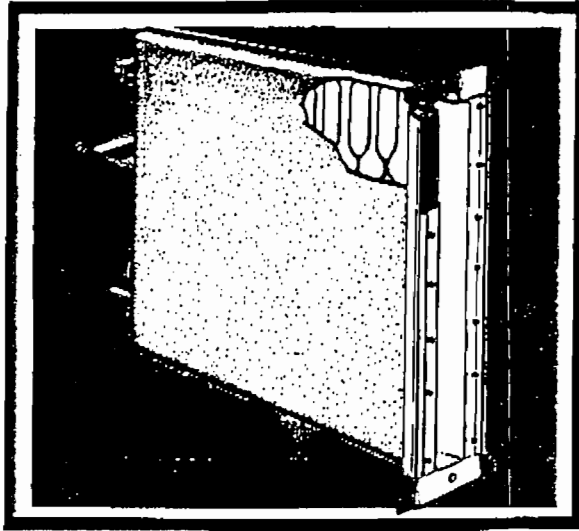
↑
No. of bags
↓
area

PRINCIPAL DIMENSIONS
TYPE 360





ENVELOPE-TYPE BAG IS BASIC TO ALL SLY DUST FILTERS



It means more filter cloth in less space...complete collection at lower cost.

Cloth filtration has long been recognized as the simplest, most economical and most effective dust collection method. To insure peak collecting efficiency, SLY employs cloth specifically made for

filtering. SLY builds this cloth into flat bags—a design that makes it possible to fit a maximum cloth area into a minimum space. As a result, all SLY dust filters provide these outstanding advantages:

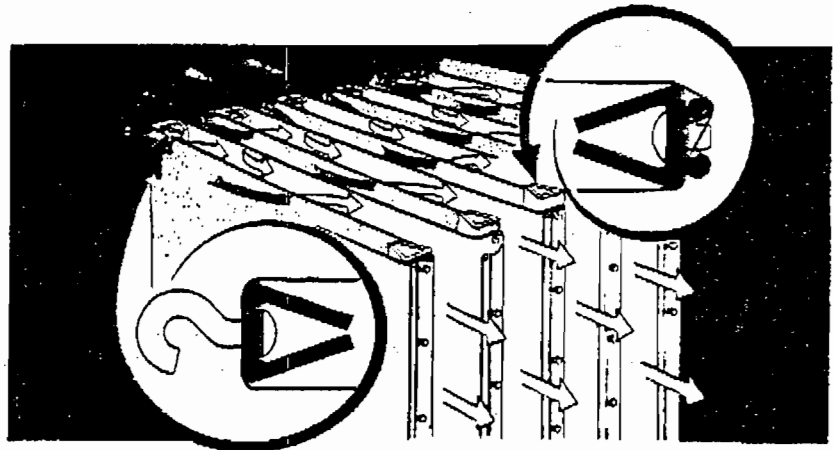
Greater Filtering Capacity: SLY dust filters have more filter cloth per cubic foot of filter than any other make.

Less Installation Space: SLY filters require less room than any other filter of comparable cloth area. You save valuable floor space; you can install SLY filters in space where no other filter will fit.

Minimum Maintenance: In SLY shaker-cleaned dust filters, velocity seldom exceeds four feet per minute through the cloth. This low velocity plus bag design provides for a uniform distribution of air over the entire cloth area. No one part receives a major portion of the dust load; long, trouble-free service is the result.

Greater Operating Economies: With SLY filters, less power is required to filter a given volume of dust-laden air. Every motion, even that of air currents, requires power and power costs money. With a SLY dust filter as its heart, your dust control system can be designed with a minimum air volume. Since air volume directly determines size of pipes, collector, fan, motor, etc., you also save on the original investment.

SLY filter cloth features low air resistance...high filtering efficiency



To assure maximum filtering efficiency and long service life, SLY uses only the finest quality woven and felt filter cloths. Woven fabrics feature the highest thread count per inch—an important consideration in achieving high collection effi-

ciency. It enables the cloth to capture the finest dust particles while offering minimum resistance to air passage. Felt fabrics, including exclusive SLYfab felt, combine long service life with maximum economy.

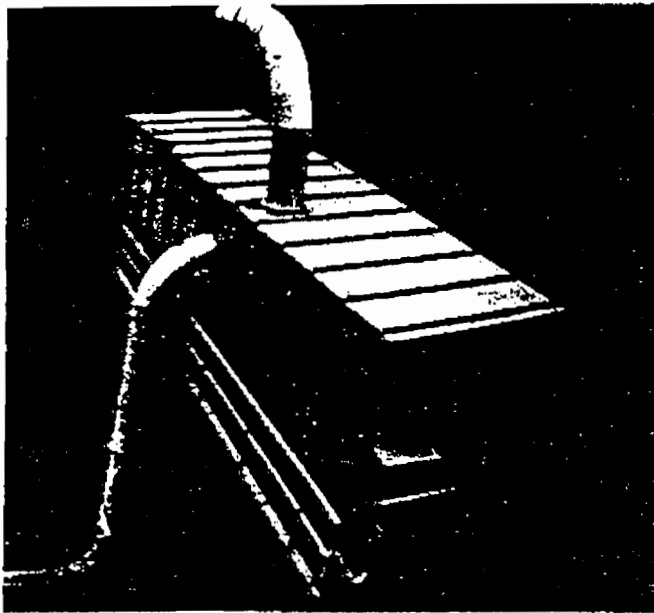


AUTOMATIC CONTROLS FOR SHAKER-CLEANED FILTERS

Automatic timers are available for operation of the shaking device on Sly Shaker-cleaned Filters.

Advantages are:

1. Automatic starting of shaker motor after each period of filter operation.
2. Shaker motor is operated only for the predetermined 3 or 4 minutes, preventing unnecessary and excessive operation of the shaking device.
3. Shaker motor will not start until after a 1-to-2-minute delay to permit fan to stop completely. This is important as the shaking device should not run while there is suction on the filter.
4. Fan cannot run while shaker operates; otherwise, dust could not be shaken off bags.
5. The human element is eliminated entirely in the periodic operation of the shaking device.
6. Greater filter efficiency and reduced maintenance will repay cost of timer many times over.



Sand and Gravel—a 28,500 CFM Sly Shaker-cleaned Dust Filter vents a rock crushing and screening operation, pulling in float dust and discharging it to a screw conveyor for return to the process. The system pays off by keeping buildings, equipment and the working environment clean.

Unit Train Car Dumper—two roof-mounted shaker-cleaned dust filters vent taconite unloading in a rotary dumping house. They collect float dust, handling 110,000 and 75,000 CFM respectively. Two smaller Sly filters keep air clean at the conveyor transfer tower and surge bin.

Types of Automatic Timers:

Sly No. 3821 Timer for Intermittent Operation with Automatic Control of Shaking Device:

1. Start fan motor by pushing "start" button.
2. Stop fan motor by pushing "stop" button. Controlled by the timer, the delay—set for about 2 minutes—permits fan to come to a complete stop. Shaker motor starts automatically and runs for a predetermined time period of 1½ to 2 minutes. After shaker motor stops the cycle will not be repeated until fan motor is again started by pushing "start" button.

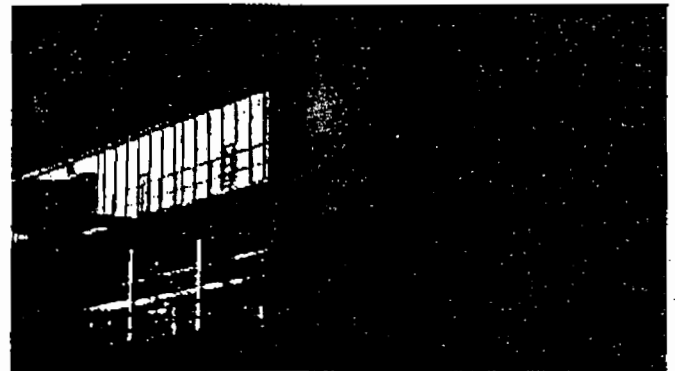
Sly No. 3822 Timer for Continuous Operation with Automatic Control of Exhaust Fan and Shaking Device:

This is a simple method for continuous operation, except for the few minutes of shaking at intervals of several hours when the suction on the system is cut off.

1. Start fan motor by pushing "start" button. Controlled by the timer, the fan will run for a predetermined period. Then after a delay of about 2 minutes to permit fan to come to a complete stop, shaker motor operates for 1½ to 2 minutes, after which cycle is repeated with fan starting automatically.
2. To shut down system, stop fan motor by pushing "stop" button.



Industrial Abrasives—this four-module shaker-cleaned dust control system vents five electric arc furnaces. Note the free-standing center classifier which blends air temperature and skims larger particulate from the gas stream. Smaller particles are captured by each filter module.



QUOTATION



MikroPul
CORPORATION

Joe Pavlosky - MikroPul
Terry Wheeler - Linder

Linder Inquiry E4-10

UNITED STATES FILTER CORPORATION
10 Chatham Road, Summit, N.J. 07901 (201) 273-6360

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 exempt 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
- (B) Time needed to complete fabrication after receipt of approved drawings (when required) .8-10 Weeks - after drawing approval - if required.

TERMS: Net 10th Prox. No Sales Or Use Taxes Included.

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

Terry Wheeler

ATTACHMENT 1

DRAWINGS