



Check Sheet

Company Name:
Permit Number:
PSD Number:
Permit Engineer:

N-Viro Soil South, Inc
Ac 27-16795

Cross References:

-
-
-

Application:

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

Intent:

- Intent to Issue
- Notice of Intent to Issue
- Technical Evaluation
- BACT or LAER Determination
- Unsigned Permit

Correspondence with:

- EPA
- Park Services
- Other
- Proof of Publication
- Petitions - (Related to extensions, hearings, etc.)
- Waiver of Department Action
- Other

Final

Determination:

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

Post Permit Correspondence:

- Extensions/Amendments/Modifications
- Other

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. David Sloan, President N-Viro Soil South, Inc. 2139 University Dr., Suite 290 Coral Springs, FL 33071	4. Article Number P 938 762 661 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 <i>[Signature]</i>	
7. Date of Delivery <i>8/31/89</i>	

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

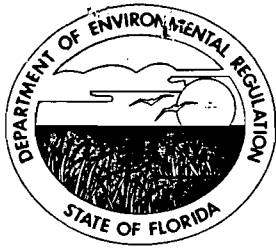
P 938 762 661

RECEIPT FOR CERTIFIED MAIL

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

Sent to	
Mr. David Sloan, N-Viro Soil	
Street and No. South	
2139 University Dr., Suite 290	
P.O., State and ZIP Code	
Coral Springs, FL 33071	
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	
Permit: AC 27-161795	
Mailed: 8-29-89	

PS Form 3800, June 1985



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

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT

Mr. David Sloan, President
N-Viro Soil South, Inc.
2139 University Drive, Suite 290
Coral Springs, Florida 33071

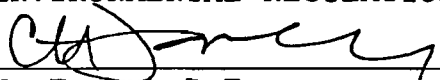
August 25, 1989

Enclosed is permit No. AC 27-161795 for N-Viro Soil South, Inc. to construct cement kiln dust and lime fines storage in silos at Florida Crush Stone Company's facility near Brooksville, Hernando County, Florida. This permit is issued pursuant to Section 403, Florida Statutes.

Any party to this permit has the right to seek judicial review of the permit 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 this permit is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


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

Copy furnished to:

B. Thomas, SW District
J. Koogler, 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 August 29, 1989.

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 J. W. W. W. August 29, 1989
Clerk Date

Final Determination

**N-Viro Soil South, Inc.
Brooksville, Hernando County, Florida**

**Cement Kiln Dust and Lime Fines Storage Silos
Permit Number: AC 27-161795**

**Department of Environmental Regulation
Division of Air Resources Management
Bureau of Air Quality Management
Central Air Permitting**

August 21, 1989

Final Determination

The Technical Evaluation and Preliminary Determination for the permit to construct cement kiln dust and lime fines storage silos at Florida Crushed Stone Company's facility near Brooksville, Hernando County, Florida, was distributed on June 28, 1989. The Notice of Proposed Agency Action was published in The Sun-Journal on July 26, 1989. Copies of the evaluation were available for public inspection at the Department's offices in Tampa and Tallahassee.

No comments were submitted on the Department's Intent to Issue the permit. The final action of the Department will be to issue construction permit No. AC 27-161795 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 Twachtman, Secretary

John Shearer, Assistant Secretary

PERMITTEE:
N-Viro Soil South, Inc.
2139 University Drive
Suite 290
Coral Springs, FL 33071

Permit Number: AC 27-161795
Expiration Date: March 1, 1990
County: Hernando
Latitude/Longitude: 28°35'00"N
82°25'53"W
Project: Cement and Lime Silos

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:

Construction of two 1800 cu. ft. silos, an ICA Model 520 U baghouse, rotary feeders, screw conveyor, loading spout, and 27 inch diameter canvas shroud to handle cement kiln dust and lime fines materials. This equipment will be located at Florida Crushed Stone Company's facility on Cobb Road, approximately 2 miles NW of Brooksville, Hernando County, Florida.

The UTM coordinates of this site are Zone 17, 360.0 km E and 3162.48 km N.

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 March 9, 1989.
2. DER letter dated April 6, 1989.
3. Koogler & Assoc. letter dated June 2, 1989.

PERMITTEE:
N-Viro Soil South, Inc.

Permit No. AC 27-161795
Expiration Date: March 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:
N-Viro Soil South, Inc.

Permit No. AC 27-161795
Expiration Date: March 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:
N-Viro Soil South, Inc.

Permit No. AC 27-161795
Expiration Date: March 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:
N-Viro Soil South, Inc.

Permit No. AC 27-161795
Expiration Date: March 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. Particulate matter emissions from the baghouse serving the silos shall not exceed 0.015 gr/acf, 0.1 lbs/hr, or 5% opacity.

2. Particulate matter emissions from the truck loading operation shall not exceed 5% opacity.

3. These sources shall be tested for visible emissions by EPA Method 9 as described in 40 CFR 60, Appendix A, as amended on October 10, 1981. If visible emissions from the baghouse exceed 5% opacity, the applicant shall test its emissions by a procedure approved by the Department based on EPA Method 5 as described in 40 CFR 60, Appendix A, as amended on December 14, 1983.

4. To minimize unconfined emissions, spills on the trucks and plant roads used in conjunction with this project shall be cleaned promptly. Trucks shall be restricted to 10 mph on plant property.

5. The permittee shall notify the Department's Southwest District office at least 15 days prior to any compliance test.

6. The source is authorized to operate 24 hrs/day, 5 days/week, and 52 weeks/year or 6,240 hrs/year.

7. The silos shall not receive more than 11 loads of material per day (total for both silos) and shall not discharge more than 10 loads per day. Each load is approximately 25 tons.

PERMITTEE:
N-Viro Soil South, Inc.

Permit No. AC 27-161795
Expiration Date: March 1, 1990

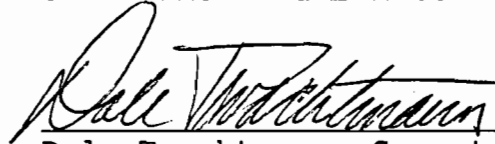
SPECIFIC CONDITIONS:

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

9. 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 deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. 17-4.220).

Issued this 24 day
of August, 1989

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

FROM: Steve Smallwood 

SUBJ: Approval of Construction Permit No. AC 27-161795
N-Viro Soil South, Inc.

DATE: August 24, 1989

Attached for your approval and signature is a permit prepared by Central Air Permitting for the above mentioned Company to construct cement kiln dust and lime fines storage silos at Florida Crushed Stone Company's facility near Brooksville, Hernando County, Florida.

No comments were submitted on the Department's Intent to Issue the permit.

Day 90, after which the permit will be issued by default, is October 29, 1989.

I recommend your approval and signature.

attachment

SS/WH/t



N-VIRO SOIL SOUTH INC.

RECEIVED

AUG 11 1989

DER-BAQW

August 9, 1989

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

Re: Permit # DER 27-161795 - Affidavit of Legal Publication

Dear Mr. Fancy;

Enclosed please find the required Affidavit of Legal Publication that was published in the Sun-Journal in Brooksville, on July 26, 1989. This Affidavit pertains to DER File No. 27-161795, Application for permit by N-Viro Soil South, Inc.

Please contact us if we can be of further assistance in this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "David Sloan".

David S. Sloan
President

DSS:ams

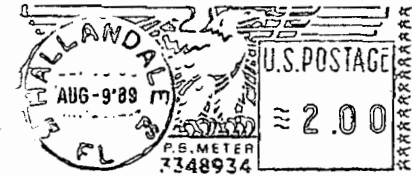
copied: *A. Kerns*
N. Kerns, SW Dist.

SLUDGE TO SOIL TECHNOLOGY
U.S. EPA APPROVED PFRP • PROCESS AND PRODUCT

2139 University Drive • Suite 290 • Coral Springs, FL. 33071 • Phone 1-305-341-0777



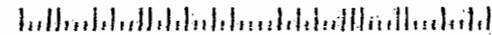
N-VIRO SOIL SOUTH
2139 University Drive • Suite 290 • Coral Springs, FL 33071



Florida Department of Environmental Regulation
Twin Towers Bldg.
2600 Blair Stone Road
Tallahassee, Fl. 32399-2400

Attention: C.H. Fancy, P.E.

Return Receipt Requested



AFFIDAVIT OF LEGAL PUBLICATION

The Sun-Journal
Published Tuesday thru Saturday
Brooksville, Hernando, Florida
STATE OF FLORIDA
COUNTY OF HERNANDO

Before the undersigned authority personally appeared J. Michael Williams, who on oath says he is General Manager of the Sun-Journal, a daily newspaper published at 703 Lamar Ave., Brooksville in Hernando County, Florida; that the attached copy of advertisement, being a legal advertisement in

the matter of Notice of Intent to Issue
in the Court
was published in said newspaper in the issues of
7-26

Affiant says that the said Sun-Journal is a newspaper published at 703 Lamar Ave., Brooksville, in said Hernando County, Florida, and that said newspaper has heretofore been continuously published in said Hernando County, Florida, each Tuesday thru Saturday and has been entered as second-class mail matter at the post office in Brooksville, in said Hernando County, Florida, for a period of 1 year next preceding the first publication of the attached copy of advertisement; and 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.

J. Michael Williams, General Manager, The Sun-Journal and Spring Hill Sun.

Sworn to and subscribed before me this 26th day of July 1989 A.D.

BY: Christina Frausel
Notary Public

Filed 19, at O'clock M. and Recorded in Book No., Page

Record Verified
Clerk, Court, Hernando County, FL
By D.C.

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

Tallahassee, Florida 32399-2400
Dept. of Environmental Regulation
Southwest District
4520 Oak Fair Blvd.
Tampa, Florida 33610-7347
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.
PUBLISH: July 26, 1989

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit to N-Viro Soil South, Inc., 2139 University Drive, Suite 290, Coral Springs, Fl 33071, to construct cement kiln dust and lime fines

storage silos at Florida Crushed Stone Company's facility located on Cobb Road, 2 miles Northwest of Brooksville, Hernando County, Florida. The project involves the installation of two pneumatically filled silos with emissions controlled by a single baghouse, a rotary feeders/screw conveyor truck loading system with emissions controlled by a canvas shroud attached to the truck loading spout. Particulate matter emissions are estimated to be 0.1 TPY during loading of the silos, 0.2 TPY during loading of the trucks, and 4.7 TPY from truck traffic associated with this operation. The total particulate matter emissions from the project of 5.0 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.

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 28-5.207, 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

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. <input type="checkbox"/> Show to whom delivered, date, and addressee's address. (Extra charge) 2. <input type="checkbox"/> Restricted Delivery (Extra charge)	
3. Article Addressed to: Mr. David Sloan President N-Viro Soil South, Inc. 2139 University Drive, Ste. 290 Coral Springs, FL 33071	4. Article Number P 938762 606 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 <i>[Handwritten Signature]</i>	
7. Date of Delivery 7-1-89	

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

P 938 762 606

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

Sent to	
Mr. David Sloan, N-Viro Soil	
Street and No. 2139 University Dr., Ste. 290	
P.O., State and ZIP Code Coral Springs, FL 33071	
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: 6-28-89	
Permit: AC 27-161795	

PS Form 3800, June 1985.



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

June 27, 1989

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. David Sloan, President
N-Viro Soil South, Inc.
2139 University Drive, Suite 290
Coral Springs, Florida 33071

Dear Mr. Sloan:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permit to construct the cement kiln dust and lime fines storage silos at the Florida Crushed Stone Company's plant.

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/ks

Attachments

cc: B..Thomas, SW District
J. Koogler, P.E.

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of
Application for Permit by:

N-Viro Soil South, Inc.
2139 University Drive
Suite 290
Coral Springs, FL 33071

DER File No. AC 27-161795

INTENT TO ISSUE

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

The applicant, N-Viro Soil South, Inc., applied on March 9, 1989, to the Department of Environmental Regulation for a permit to construct a cement kiln dust silo and a lime fines storage silo with associated equipment at Florida Crushed Stone Company's facility located on Cobb Road, 2 miles northwest of Brooksville, Hernando 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 an air construction permit is 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 Permit. 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 permit.

The Department will issue the permit 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;

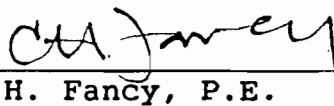
- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) 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 applicant 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:

B. Thomas, SW District
J. Koogler, P.E.

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 6-28-89.

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 J. Wise
Clerk

6-28-89
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 a permit to N-Viro Soil South, Inc., 2139 University Drive, Suite 290, Coral Springs, Fl 33071, to construct cement kiln dust and lime fines storage silos at Florida Crushed Stone Company's facility located on Cobb Road, 2 miles Northwest of Brooksville, Hernando County, Florida. The project involves the installation of two pneumatically filled silos with emissions controlled by a single baghouse, and rotary feeders/screw conveyor truck loading system with emissions controlled by a canvas shroud attached to the truck loading spout. Particulate matter emissions are estimated to be 0.1 TPY during loading of the silos, 0.2 TPY during loading of the trucks, and 4.7 TPY from truck traffic associated with this operation. The total particulate matter emissions from the project of 5.0 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.

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 28-5.207, 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

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

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

N-Viro Soil South, Inc.
Brooksville, Hernando County, Florida

Cement Kiln Dust and Lime Fines Storage Silos
File Number: AC 27-161795

Department of Environmental Regulation
Division of Air Resources Management
Bureau of Air Quality Management
Central Air Permitting

June 27, 1989

I. General Information

A. Applicant

N-Viro Soil South, Inc.
2139 University Drive
Suite 290
Coral Springs, Florida 33071

B. Request

On March 9, 1989, Mr. David Sloan, President of N-Viro Soil South, Inc., submitted an application for permit to construct a cement kiln dust storage silo and a lime fines storage silo at Florida Crush Stone Company's facility (SIC 3241). The application was considered complete on June 5, 1989, when additional information (June 2 letter) on the project was received by the Department.

C. Project and Location

The project involves the construction of an 1800 cu. ft. cement kiln dust silo, an 1800 cu. ft. lime fines storage silo, and ICA Model 520 U baghouse to control the particulate matter (PM) emissions from the silos when they are being pneumatically filled, and rotary feeders/screw conveyor truck loading system with PM emissions controlled by a 27 inch diameter canvas shroud that connects the trucks to the loading spout. The equipment will be located at Florida Crushed Stone Company's facility which is 2 miles northwest of Brooksville in Hernando County, Florida.

D. Process and Emissions

Eleven truck loads per day of raw material (cement kiln dust and lime fines) in 25 ton batches will be delivered to the silos and unloaded pneumatically at a rate of 36 TPH. Only one truck will load a silo at any one time. The 800 acfm used to unload the truck will pass through a baghouse having an air/cloth ratio of 1.5 to 1 before being discharged to the atmosphere. The PM emissions from the 99% efficient baghouse are estimated to be 0.015 gr/acf, 0.1 lbs/hr and, based on 6,240 hrs/year operation, 0.1 TPY.

Ten truck loads per day of blended material will be hauled from the plant. Twenty-four ton batches (67% cement kiln dust and 33% lime fines) of materials will be discharged from the silos through rotary feeders into a screw conveyor and then through the canvas shroud into tanker trucks. Displaced air from the truck will pass through the canvas shroud into the atmosphere. It is estimated that the shroud will remove 75% of the entrained dust. Emissions from the truck loading operation are estimated to be 0.2 lb/hr and 0.2 TPY.

Truck traffic hauling raw material to the silos and blended material from the silos will generate 4.7 TPY of unconfined emissions. This assumes, for each load, the truck travels 0.5 mile at 10 mph.

II. Rule Applicability

The proposed project, construction of a cement kiln dust silo, a lime fines dust silo, and associated equipment at a cement manufacturing plant (SIC 3241), is subject to preconstruction review under the provisions of Chapter 403, F.S., and Chapter 17-2, F.A.C.

The project will be located in an area designated attainment for all criteria pollutants (F.A.C. Rule 17-2.420).

The project will be a minor source of particulate matter because total emissions are less than 100 TPY. It will be under the control of the applicant who is independent of the Florida Crushed Stone Company and Central Power and Lime, Inc., the present operator of the major facility at which the proposed plant will be located.

The project is exempt from the Prevention of Significant Deterioration regulations (F.A.C. Rule 17-2.500) because it is a minor source.

The project is subject to F.A.C. Rule 17-2.520, Sources Not-Subject to PSD or Nonattainment Requirements. Control of the emissions will be based on F.A.C. Rules 17-2.610(3), Unconfined Emissions of Particulate Matter, and 17-2.700(3)(d), alternate emission standard.

III. Technical Evaluation

Particulate matter emissions occur when the silos are being loaded, when trucks are being loaded from the silos, and during the hauling of the materials to and from the silo.

Raw material is delivered to the silos 11 times/day. An 800 acfm blower on the trucks pneumatically transfers 25 ton batches of the material to the silos at a 36 TPH rate. The contaminated air is forced into the atmosphere through a 99% efficient baghouse (it does not have a fan) that serves both silos. Emissions are estimated to be 0.015 grains/acf, 0.1 lbs/hr, and, based on 6,240 hrs/yr operation, 0.1 TPY. This degree of control is considered reasonable precautions. Ten loads per day of materials are removed from the silos. For each load sixteen tons of cement kiln dust and 8 tons of lime fines are removed from the silos through rotary valves over a 12 minute period. A screw conveyor under the silos mixes and discharges the material to the trucks through a 27 inch diameter canvas shroud that connects the loading spout to the truck. Air

displaced from the truck is forced through the canvas shroud to the atmosphere. The applicant estimated the shroud will remove 75% of the entrained PM in the air being displaced. The emissions are estimated to be 0.2 lbs/hr and 0.2 TPY. When properly maintained and used, the shroud should be reasonable precautions for truck loading operations.

Truck traffic on plant property is estimated to generate 4.7 TPY of unconfined emissions when limited to 10 mph. Reasonable precautions will include cleaning spilled material from the roads and trucks to minimize fugitive emissions.

IV. Ambient Air Impact

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 N-Viro Soil South, Inc., the Department has reasonable assurance that the proposed construction/installation of the proposed cement kiln dust and lime fines storage silos and material handling system, 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:

N-Viro Soil South, Inc.
2139 University Drive
Suite 290
Coral Springs, FL 33071

Permit Number: AC 27-161795
Expiration Date: March 1, 1990
County: Hernando
Latitude/Longitude: 28°35'00"N
82°25'53"W
Project: Cement and Lime Silos

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:

Construction of two 1800 cu. ft. silos, an ICA Model 520 U baghouse, rotary feeders, screw conveyor, loading spout, and 27 inch diameter canvas shroud to handle cement kiln dust and lime fines materials. This equipment will be located at Florida Crushed Stone Company's facility on Cobb Road, approximately 2 miles NW of Brooksville, Hernando County, Florida.

The UTM coordinates of this site are Zone 17, 360.0 km E and 3162.48 km N.

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 March 9, 1989.
2. DER letter dated April 6, 1989.
3. Koogler & Assoc. letter dated June 2, 1989.

PERMITTEE:
N-Viro Soil South, Inc.

Permit No. AC 27-161795
Expiration Date: March 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:
N-Viro Soil South, Inc.

Permit No. AC 27-161795
Expiration Date: March 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:
N-Viro Soil South, Inc.

Permit No. AC 27-161795
Expiration Date: March 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:
N-Viro Soil South, Inc.

Permit No. AC 27-161795
Expiration Date: March 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. Particulate matter emissions from the baghouse serving the silos shall not exceed 0.015 gr/acf, 0.1 lbs/hr, or 5% opacity.

2. Particulate matter emissions from the truck loading operation shall not exceed 5% opacity.

3. These sources shall be tested for visible emissions by EPA Method 9 as described in 40 CFR 60, Appendix A, as amended on October 10, 1981. If visible emissions from the baghouse exceed 5% opacity, the applicant shall test its emissions by a procedure approved by the Department based on EPA Method 5 as described in 40 CFR 60, Appendix A, as amended on December 14, 1983.

PERMITTEE:
N-Viro Soil South, Inc.

Permit No. AC 27-161795
Expiration Date: March 1, 1990

SPECIFIC CONDITIONS:

4. To minimize unconfined emissions, spills on the trucks and plant roads used in conjunction with this project shall be cleaned promptly. Trucks shall be restricted to 10 mph on plant property.
5. The permittee shall notify the Department's Southwest District office at least 15 days prior to any compliance test.
6. The source shall not operate more than 24 hrs/day, 5 days/week, and 52 weeks/year.
7. The silos shall not receive more than 11 loads of material per day (total for both silos) and discharge more than 10 loads per day. Each load is approximately 25 tons.
8. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the BAQM prior to 60 days before the expiration of the permit (F.A.C. 17-4.090).
9. 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 deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. 17-4.220).

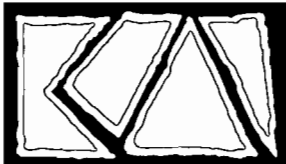
Issued this _____ day
of _____, 1989

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

Dale Twachtmann, Secretary

PM
6-2-89
Gainesville, FL

file copy



KOOGLER & ASSOCIATES
ENVIRONMENTAL SERVICES
4014 NW THIRTEENTH STREET
GAINESVILLE, FLORIDA 32609
904/377-5822 • FAX 377-7158

KA 307-86-04

June 2, 1989

RECEIVED

JUN 5 1989

DER-BAQM

Mr. Willard Hanks
Florida Department of
Environmental Regulation
Division of Air Resources Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Subject: Hernando County-AP
N-Viro Soil South, Inc.
Permit AC27-161795
Supplemental Information
to Complete Permit Application

Dear Willard:

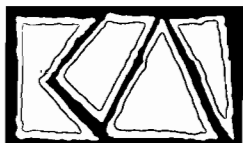
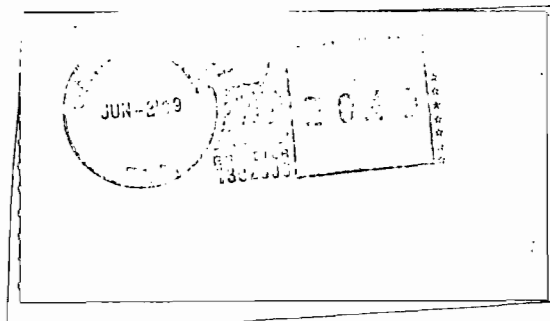
In response to the letter dated April 6, 1989 from Harry Kerns, I am providing the following information to complete the application for Air Construction Permit AC27-161795.

1. Since your proposed operation is also located on the same property as Florida Crushed Stone Company's facility, will this operation be under the control of the same person (or persons under common control)?

RESPONSE. The proposed operation will be under the control of N-Viro Soil South, Inc. The company is independent of the Florida Crushed Stone Company and Central Power and Lime, Inc. (the present operator of the majority of the C/P/L plant).

2. How was the 0.015 gr/acf value used in your calculations for efficiency of the baghouse determined?

RESPONSE. The particulate matter concentration in the air stream discharged from the baghouse was estimated by the engineer of record. This concentration is typical of particulate matter concentrations in gas streams discharged from fabric filter collectors and is the concentration used in permitting most all fabric filter collectors at the C/P/L plant.



KOOGLER & ASSOCIATES
ENVIRONMENTAL SERVICES

4014 NW THIRTEENTH STREET
GAINESVILLE, FLORIDA 32609
904/377-5822 • FAX 377-7158

TO:

Mr. Willard Hanks
FDER
Division of Air Resources
2600 Blair Stone Road
Tallahassee, Fl 32399-2400

FIRST CLASS MAIL

3. In Section V-Supplemental Information to the Application, it states up to seven cement kiln dust loads in four lime fines dust loads for a maximum of 11 loads may be received per day, but your emission calculations use a maximum of 10 loads per day. Therefore, do you request the application to be processed for a maximum of 10 loads received per day? If no, resubmit the emission calculations based on 11 loads received per day.

RESPONSE. The permit is to be processed on the basis of the 11 loads per day. Particulate matter emission estimates based on 11 loads are attached.

4. Since your proposed operation is also located on the same property as Florida Crushed Stone Company's facility, submit emission calculations for the unconfined emissions generated from the vehicular traffic associated with this operation.

RESPONSE. The unconfined particulate matter emissions generated by the truck traffic will be approximately 4.7 tons per year. This dust will be generated by 21 trucks per day (11 delivering raw materials and 10 transporting product), five days per week, 52 weeks per year as the trucks travel from the paved entrance road to the N-Viro Soil South facility and return. The emission calculations for this estimate are attached.

5. Submit documentation and/or a certification from a Florida registered professional engineer stating in his/her professional opinion the 75 percent control efficiency of the shroud on the truck loading spout is a reasonable value.

RESPONSE. As Engineer of Record, I estimated the 75 percent control efficiency for the canvas shroud on the truck loading spout and stated this estimate in the permit application. In my professional opinion, this is a reasonable estimate.

6. Explain how the displaced air during the truck loading vents back into the screw conveyor. Will the displaced air in the screw conveyor also enter the silos?

RESPONSE. The air displaced from the trucks during loading does not vent into the screw conveyor, into the silos or into the silo baghouse. The air filters through the canvas shroud to the atmosphere. Dust contained in the displaced air will be captured by the canvas shroud (75 percent collection efficiency) and returned to the truck.

Mr. Willard Hanks
Re: N-Viro Soil South, Inc.

June 2, 1989
Page 3

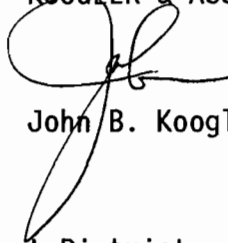
7. Is it correct only one truck at a time (lime or cement kiln dust) will pneumatically load a silo? If no, explain.

RESPONSE. Only one truck will load a silo at any one time.

If there are any further questions regarding this matter, please do not hesitate to contact me.

Very truly yours,

KOGLER & ASSOCIATES



John B. Koogler, Ph.D., P.E.

JBK:mab

cc: J. Harry Kerns, FDER, Southwest District
David Sloan, N-Viro Soil South, Inc.
Fred Crabill, Florida Crushed Stone Co.

*copied: W. Hanks
LNF/BT*



SECTION V - SUPPLEMENTAL INFORMATION

1. Process Input and Output Rates

Input

Cement kiln dust will be pneumatically loaded to the silo in approximate 25-ton batches at the rate of 36 tph (42 minutes). Six to seven loads will be received per day.

Lime dust will be pneumatically loaded to the silo in approximate 25-ton batches at the rate of 36 tph (42 minutes). Three to four loads will be received per day.

Output

Cement kiln dust and lime fines will be withdrawn from the silos in batches of 16 tons and 8 tons, respectively. Materials will be withdrawn over a 12-minute period thru rotary values in the bottom of the silos. The materials will be mixed in a screw conveyor and discharged to tanks trucker. Ten batches will be loaded-out per day.

2/3. Controlled and Uncontrolled Emissions

Silo Filling - Uncontrolled

0.27 lb/ton (AP-42, Section 8.10)

P.M. = (72,000/2000) tph x 0.27 lb/ton x 42/60 fraction of hour required to discharge load

= 6.8 lb/hr ⁽¹¹⁾
 x 10 loads/day x 5 day/wk x 52 wk/yr
 x 1/2000 lb/ton

= ~~8.8~~ 9.7 tpy ^{JK 6/12/89}

Silo Filling - Controlled

@ 0.015 gr/acf from baghouse

P.M. = 800 cfm x 42 min/hr x 0.015 gr/acf x 1/7000 gr/lb

= 0.07 lb/hr ⁽¹¹⁾
 x 10 loads/day x 5 day/wk x 52 wk/yr
 x 1/2000 lb/ton

= ~~0.09~~ 0.10 tpy ^{JK 6/14/89}

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		
Cement kiln dust	Dust	2-3	(1)	1
Lime fines	Dust	2-3	(1)	1
(1) Cement dust and lime fines will both be loaded to the silos in approximate 25-ton batches at a rate of 36 tons/hr. Cement dust will be withdrawn from silo at rate of 32,000 lb/12 min. and lime dust at rate of 16,000 lb/12 min. Materials will be blended and loaded into tanker truck.				

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

- Total Process Input Rate (lbs/hr): Silo loading-72,000 lb/hr; both cement dust and lime.
- Product Weight (lbs/hr): Silo discharge: Cement kiln dust - 32,000 lb/batch } 12 min.
Lime fines - 16,000 lb/batch } per batch

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 Emission lbs/hr	Potential Emission ⁴		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr	T/yr	
Silo - P.M.	0.1	0.1*	17-2.630	0.1	6.8	8.8	2
Truck Loading - P.M.	0.2	0.2	17-2.630	0.2	1.0	0.6	3
* No change as a result of 11 trucks/day - JPK 6/2/89							

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).



4014 NW THIRTEENTH STREET
GAINESVILLE, FLORIDA 32609
904/377-5822 • FAX 377-7158

JOB N-VIRO SOIL SOUTH, INC

CALCULATED BY JOHN B. KOGLER, P.E. DATE 6/2/89

SHEET NO. 1 OF 1

FUGITIVE PARTICULATE MATTER FROM TRUCK TRAFFIC

AP-42 Section II

Unpaved Roads

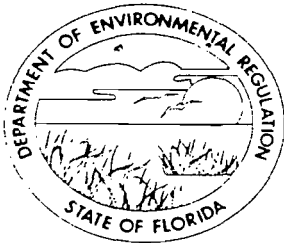
Trucks will travel 0.5 miles (round trip) from paved, dust controlled entrance road of CPL plant to N-Viro Soil facility. Trucks will travel thru CPL plant area at a speed of 10 mph. Number of trucks making trip will be 21 per day; 11 delivering materials and 10 transporting product

$$\begin{aligned} E (\text{lb/VMT}) &= 0.8 \quad (\text{Factor to account for particles} \\ &\quad \leq 30 \mu\text{m in aerodynamic dia}) \\ &\times 5.9 \quad (\text{equation factor}) \\ &\times 6/12 \quad (6\% \text{ silt; typical value from AP-42}) \\ &\times 10/30 \quad (\text{Vehicle speed of 10 mph}) \\ &\times (15/3)^{0.7} \quad (\text{Avg vehicle weight of 15 tons;} \\ &\quad \text{1/2 trip loaded and 1/2 trip empty}) \\ &\times (18/4)^{0.5} \quad (18 \text{ wheels per vehicle}) \\ &\times [(365-120)/365] \quad (120 \text{ day/yr with rain - AP-42}) \end{aligned}$$

$$= 3.5 \text{ lb P.M. / VMT}$$

$$\begin{aligned} &\times 21 \text{ trips/day} \times 0.5 \text{ mi/trip} \times 5 \text{ day/wk} \\ &\times 52 \text{ wk/yr} \times 1/2000 \text{ lb/ton} \end{aligned}$$

$$= 4.7 \text{ tpy}$$



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5561

Bob Martinez, Governor

Dale Twachmann, Secretary

John Shearer, Assistant Secretary
Richard Garrity, Deputy Assistant Secretary

April 6, 1989

Mr. David Sloan, President
N-Viro Soil South, Inc.
2139 University Drive
Suite 290
Coral Springs, FL 33071

RECEIVED

APR 10 1989

DER-BAQM

Dear Mr. Sloan:

Re: Hernando County - AP
AC27-161795

On March 9, 1989 we received your air pollution construction application for a cement kiln dust storage silo, a lime fines storage silo and a truck loading operation at the Florida Crushed Stone Company CPL Plant in Brooksville. In order to continue processing the application, the Department will need the following information pursuant to Subsection 17-4.07(1), F.A.C.:

1. Since your proposed operation is also located on the same property as Florida Crushed Stone Company's facility, will this operation be under the control of the same person (or persons under common control)?
2. How was the 0.015 gr/acf value used in your calculations for the efficiency of the baghouse determined?
3. In Section V - Supplemental Information to the application it states up to 7 cement kiln dust loads and 4 lime fines dust loads for a maximum total of 11 loads may be received per day, but your emission calculations use a maximum of 10 loads per day. Therefore, do you request the application be processed for a maximum of 10 loads received per day? If no, re-submit the emission calculations based on 11 loads received per day.
4. Since your proposed operation is also located on the same property as Florida Crushed Stone Company's facility, submit emission calculations for the unconfined emissions generated from the vehicular traffic associated with this operation.

Mr. David Sloan
President
Coral Springs, FL 33071

Page Two

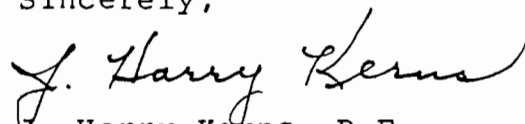
5. Submit documentation and/or a certification from a Florida registered professional engineer stating in his/her professional opinion the 75% control efficiency of the shroud on the truck loading spout is a reasonable value.
6. Explain how the displaced air during truck loading vents back into the screw conveyor. Will the displaced air in the screw conveyor also vent into the silos?
7. Is it correct only one truck at a time (lime or cement kiln dust) will pneumatically load a silo? If no, explain.

Upon receipt of the above requested information, processing of the application will continue. Please submit your response to

Mr. Willard Hanks
Department of Environmental Regulation
Bureau of Air Quality Management
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

with a copy to this office. If you have any questions, please call Mr. Willard Hanks at (904) 488-1344 or Mr. Jim McDonald of my staff at (813) 623-5561.

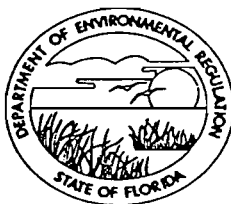
Sincerely,


J. Harry Kerns, P.E.
District Air Engineer

JHK/jmq

cc: Willard Hanks, DER-Tallahassee ✓
John B. Koogler, Ph.D., P.E.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



MAR - 9 1989
SOUTHWEST DISTRICT
TAMPA

APPLICATION TO ~~OPERATE~~/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Storage Silos New¹ Existing¹

APPLICATION TYPE: Construction Operation Modification

COMPANY NAME: N-Viro Soil South, Inc. COUNTY: Hernando

Identify the specific emission point source(s) addressed in this application (i.e. Lime
Cement Kiln Dust &
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Lime Fines Storage Silos

SOURCE LOCATION: Street Cobb Rd.; 2 mi. NW of Brooksville City Brooksville

UTM: East (17) 360.00 km North 3162.48 km

Latitude 28 ° 35 ' 00 "N Longitude 82 ° 25 ' 53 "W

APPLICANT NAME AND TITLE: David Sloan, President

APPLICANT ADDRESS: N-Viro Soil South, Inc., 2139 University Drive, Suite 290,
Coral Springs, FL 33071

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of N-Viro Soil South, Inc.

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

*Attach letter of authorization

Signed: *David Sloan*

David Sloan, President

Name and Title (Please Type)

Date: 3/8/89 Telephone No. (305) 341-0777

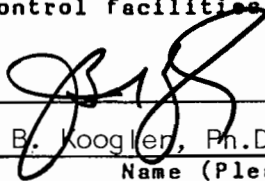
B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

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

¹ See Florida Administrative Code Rule 17-2.100(57) and (104)

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 

John B. Koogler, Ph.D., P.E.
Name (Please Type)

Koogler & Associates
Company Name (Please Type)

4014 N.W. 13th Street, Gainesville, FL 32609
Mailing Address (Please Type)

Florida Registration No. 12925 Date: 2/11/89 Telephone No. (904) 377-5822

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

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

Start of Construction April 1989 Completion of Construction June 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.)

Baghouse - \$16,000

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

None

SECTION II, A.

Installation of an 1,800 cu. ft. cement kiln dust silo and an 1,800 cu. ft. lime fines silo at the Florida Crushed Stone Company CPL Plant in Brooksville. Silos are pneumatically filled at a rate of 36 tph with an 800 cfm blower. A cross-over vent between the two silos allows both to be controlled with a single baghouse. There will be no fan on the baghouse; the air flow will be supplied by the pneumatic transfer pumps on the delivery trucks. Materials are discharged from the silos thru rotary feeders into a screw conveyor in 24-ton batches (67% cement kiln dust and 33% lime fines).

The screw conveyor mixes the materials and discharges them into tanker trucks thru a 12-inch diameter spout. A 27-inch diameter canvas shroud surrounds the spout and covers the open space between the spout and the hatch on the tanker truck. Ten 24-ton tanker truck loads of the blended material will be shipped each day; with 12 minutes required to load-out each 24-ton batch.

The facility will operate in compliance with all applicable regulations.

E. Requested permitted equipment operating time: hrs/day 24; days/wk 5; wks/yr 52; if power plant, hrs/yr _____; if seasonal, describe: 2,600 loads will be loaded out each year with a load-out time of 12 minutes per load or 520 hr/year.

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

Minor modifications to a major facility.

1. Is this source in a non-attainment area for a particular pollutant? No
- a. If yes, has "offset" been applied? -
- b. If yes, has "Lowest Achievable Emission Rate" been applied? -
- c. If yes, list non-attainment pollutants. -

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

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 justification for any answer of "No" that might be considered questionable.

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

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
Cement kiln dust	Dust	2-3	(1)	1
Lime fines	Dust	2-3	(1)	1
(1) Cement dust and lime fines will both be loaded to the silos in approximate 25-ton batches at a rate of 36 tons/hr. Cement dust will be withdrawn from silo at rate of 32,000 lb/12 min. and lime dust at rate of 16,000 lb/12 min. Materials will be blended and loaded into tanker truck.				

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

- Total Process Input Rate (lbs/hr): Silo loading-72,000 lb/hr; both cement dust and lime.
- Product Weight (lbs/hr): Silo discharge: Cement kiln dust - 32,000 lb/batch } 12 min.
Lime fines - 16,000 lb/batch } per batch

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	
Silo - P.M.	0.1	0.1	17-2.630	0.1	6.8	8.8	2
Truck Loading - P.M.	0.2	0.2	17-2.630	0.2	1.0	0.6	3

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)
ICA Model 520U Baghouse	Part. Matter	99.0%	> 2 um	Estimate
	Air/Cloth ratio = 1.5 to 1			

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
None			

*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 NA Maximum _____

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

Dust from baghouse will be returned to silos.

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

Stack Height: 57 ft. Stack Diameter: 8 in. x 10 in. ~~ft.~~
 Gas Flow Rate: 800 ACFM 735 DSCFM Gas Exit Temperature: 100 °F.
 Water Vapor Content: 2-3 % Velocity: 24.0 FPS

SECTION IV: INCINERATOR INFORMATION

(NOT APPLICABLE)

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							
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) _____

Brief description of operating characteristics of control devices: _____

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

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

SECTION V: SUPPLEMENTAL REQUIREMENTS

(SEE FOLLOWING PAGES)

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 INFORMATION

1. Process Input and Output Rates

Input

Cement kiln dust will be pneumatically loaded to the silo in approximate 25-ton batches at the rate of 36 tph (42 minutes). Six to seven loads will be received per day.

Lime dust will be pneumatically loaded to the silo in approximate 25-ton batches at the rate of 36 tph (42 minutes). Three to four loads will be received per day.

Output

Cement kiln dust and lime fines will be withdrawn from the silos in batches of 16 tons and 8 tons, respectively. Materials will be withdrawn over a 12-minute period thru rotary values in the bottom of the silos. The materials will be mixed in a screw conveyor and discharged to tanks trucker. Ten batches will be loaded-out per day.

2/3. Controlled and Uncontrolled Emissions

Silo Filling - Uncontrolled

0.27 lb/ton (AP-42, Section 8.10)

P.M. = (72,000/2000) tph x 0.27 lb/ton x 42/60 fraction of hour
required to discharge load

= 6.8 lb/hr
x 10 loads/day x 5 day/wk x 52 wk/yr
x 1/2000 lb/ton

= 8.8 tpy

Silo Filling - Controlled

@ 0.015 gr/acf from baghouse

P.M. = 800 cfm x 42 min/hr x 0.015 gr/acf x 1/7000 gr/lb

= 0.07 lb/hr
x 10 loads/day x 5 day/wk x 52 wk/yr
x 1/2000 lb/ton

= 0.09 tpy

Truck Loading - Uncontrolled

$$\begin{aligned} & @ \quad 0.02 \text{ lb/ton (AP-42, Sect. 8.10)} \\ \text{P.M.} & = (24 \text{ ton/batch} \times 2 \text{ batch/hr}) \times 0.02 \text{ lb/ton} \\ & = 1.0 \text{ lb/hr} \\ & \quad \times 5 \text{ times/day} \times 5 \text{ day/wk} \times 52 \text{ wk/yr} \times 1/2000 \\ & = 0.62 \text{ tpy} \end{aligned}$$

Truck Loading - Controlled

Estimate 75% control efficiency

$$\begin{aligned} \text{P.M.} & = 1.0 \text{ lb/hr} \times (1 - 0.75) \\ & = 0.25 \text{ lb/hr} \\ & \quad \times 5 \text{ times/day} \times 5 \text{ day/wk} \times 52 \text{ wk/yr} \times 1/2000 \\ & = 0.2 \text{ tpy} \end{aligned}$$

4. Baghouse Specifications - See Attachment No. 1
Control for Truck Loading - See Attachment No. 2

5. Control Efficiencies

Baghouse

$$E = (6.8 - 0.07) \times 100/6.8 = 99.0\%$$

Truck Load-out

E - Estimated to be 75%

6. Flow Diagram - See Attachment No. 2
7. Location Map - See Attachment No. 3
8. Site Map - See Attachment No. 4
9. Permit Fee - \$200 -- less than 25 tpy of any single pollutant.

- 9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.
- 10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY
(NOT APPLICABLE)

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

Yes No

Contaminant

Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)

Yes No

Contaminant

Rate or Concentration

C. What emission levels do you propose as best available control technology?

Contaminant

Rate or Concentration

D. Describe the existing control and treatment technology (if any).

1. Control Device/System:

2. Operating Principles:

3. Efficiency:*

4. Capital Costs:

*Explain method of determining

5. Useful Life:

6. Operating Costs:

7. Energy:

8. Maintenance Cost:

9. Emissions:

Contaminant	Rate or Concentration

10. Stack Parameters

- a. Height: ft. b. Diameter: ft.
- c. Flow Rate: ACFM d. Temperature: °F.
- e. Velocity: FPS

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1.

- a. Control Device: b. Operating Principles:
- c. Efficiency:¹ d. Capital Cost:
- e. Useful Life: f. Operating Cost:
- g. Energy:² h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

2.

- a. Control Device: b. Operating Principles:
- c. Efficiency:¹ d. Capital Cost:
- e. Useful Life: f. Operating Cost:
- g. Energy:² h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:

¹Explain method of determining efficiency.

²Energy to be reported in units of electrical power - KWH design rate.

- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

- 3.
 - a. Control Device:
 - b. Operating Principles:
 - c. Efficiency:¹
 - d. Capital Cost:
 - e. Useful Life:
 - f. Operating Cost:
 - g. Energy:²
 - h. Maintenance Cost:
 - i. Availability of construction materials and process chemicals:
 - j. Applicability to manufacturing processes:
 - k. Ability to construct with control device, install in available space, and operate within proposed levels:

- 4.
 - a. Control Device:
 - b. Operating Principles:
 - c. Efficiency:¹
 - d. Capital Costs:
 - e. Useful Life:
 - f. Operating Cost:
 - g. Energy:²
 - h. Maintenance Cost:
 - i. Availability of construction materials and process chemicals:
 - j. Applicability to manufacturing processes:
 - k. Ability to construct with control device, install in available space, and operate within proposed levels:

F. Describe the control technology selected:

- 1. Control Device:
- 2. Efficiency:¹
- 3. Capital Cost:
- 4. Useful Life:
- 5. Operating Cost:
- 6. Energy:²
- 7. Maintenance Cost:
- 8. Manufacturer:
- 9. Other locations where employed on similar processes:
- a. (1) Company:
- (2) Mailing Address:
- (3) City:
- (4) State:

¹Explain method of determining efficiency.

²Energy to be reported in units of electrical power - KWH design rate.

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant	Rate or Concentration

(8) Process Rate:¹

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:¹

Contaminant	Rate or Concentration

(8) Process Rate:¹

10. Reason for selection and description of systems:

¹Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why.

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION

(NOT APPLICABLE)

A. Company Monitored Data

1. _____ no. sites _____ TSP _____ () SO₂* _____ Wind spd/dir

Period of Monitoring _____ / _____ / _____ to _____ / _____ / _____
month day year month day year

Other data recorded _____

Attach all data or statistical summaries to this application.

*Specify bubbler (B) or continuous (C).

2. Instrumentation, Field and Laboratory

- a. Was instrumentation EPA referenced or its equivalent? Yes No
- b. Was instrumentation calibrated in accordance with Department procedures?
 Yes No Unknown

B. Meteorological Data Used for Air Quality Modeling

- 1. _____ Year(s) of data from ____/____/____ to ____/____/____
 month day year month day year
- 2. Surface data obtained from (location) _____
- 3. Upper air (mixing height) data obtained from (location) _____
- 4. Stability wind rose (STAR) data obtained from (location) _____

C. Computer Models Used

- 1. _____ Modified? If yes, attach description.
- 2. _____ Modified? If yes, attach description.
- 3. _____ Modified? If yes, attach description.
- 4. _____ Modified? If yes, attach description.

Attach copies of all final model runs showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate	
TSP	_____	grams/sec
SO ²	_____	grams/sec

E. Emission Data Used in Modeling

Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

F. Attach all other information supportive to the PSD review.

G. Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.

H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

UNIT DUST COLLECTOR

Compact—Portable—
Long Service Life
Precision Engineered

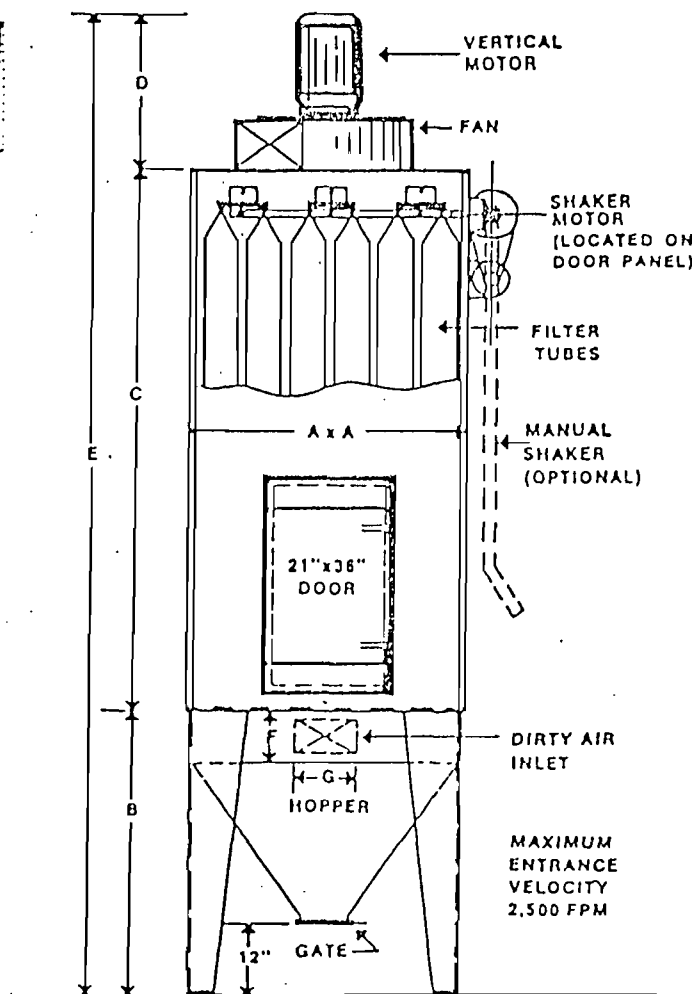
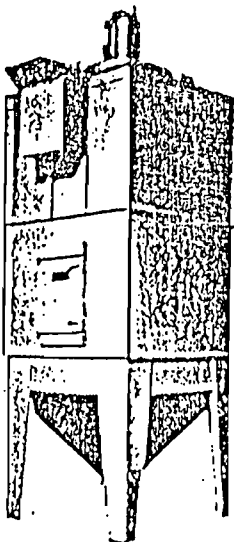
CONTROLS AIR POLLUTION . . . Prevents dust from being a nuisance to your neighbors and a hazard to plant workers and machinery. It's easy to maintain a "good neighbor policy" with a Rees Dust Collector. And it's good business to promote worker morale and efficiency while preventing dust damage to machinery.

ACTUALLY PAYS FOR ITSELF . . . In many cases, the Unit Type Dust Collector, equipped with super-efficient Dust Bags, reclaims significant amounts of valuable dust for resale. Thus it quickly amortizes its original cost.

IDEAL FOR . . . For applications such as grinding wheels, tumbling mills, small pulverizers, screening equipment and similar operations where a restricted amount of air is handled. No heat loss either. The Rees Dust Collector returns clean, filtered air to the area after dust collecting cycle. Compact design with fan and drive mounted directly on top allows location near equipment to be ventilated. Shipped completely assembled, ready for operation. Knocked down shipment optional.

RUGGED CONSTRUCTION . . . The Unit Dust Collector is made of quality materials and components . . . and made to last! Drawing right shows unit with hopper bottom and supporting legs. For low headroom it is also furnished with box type bottom with cleanout doors.

ELECTRIC SHAKERS ARE STANDARD
MANUAL SHAKERS OPTIONAL



REES UNIT DUST COLLECTORS ARE AVAILABLE IN 4 SIZES CAPACITY TO 3440 C.F.M.
(STATIC SUCTION 8" wg AT INLET)

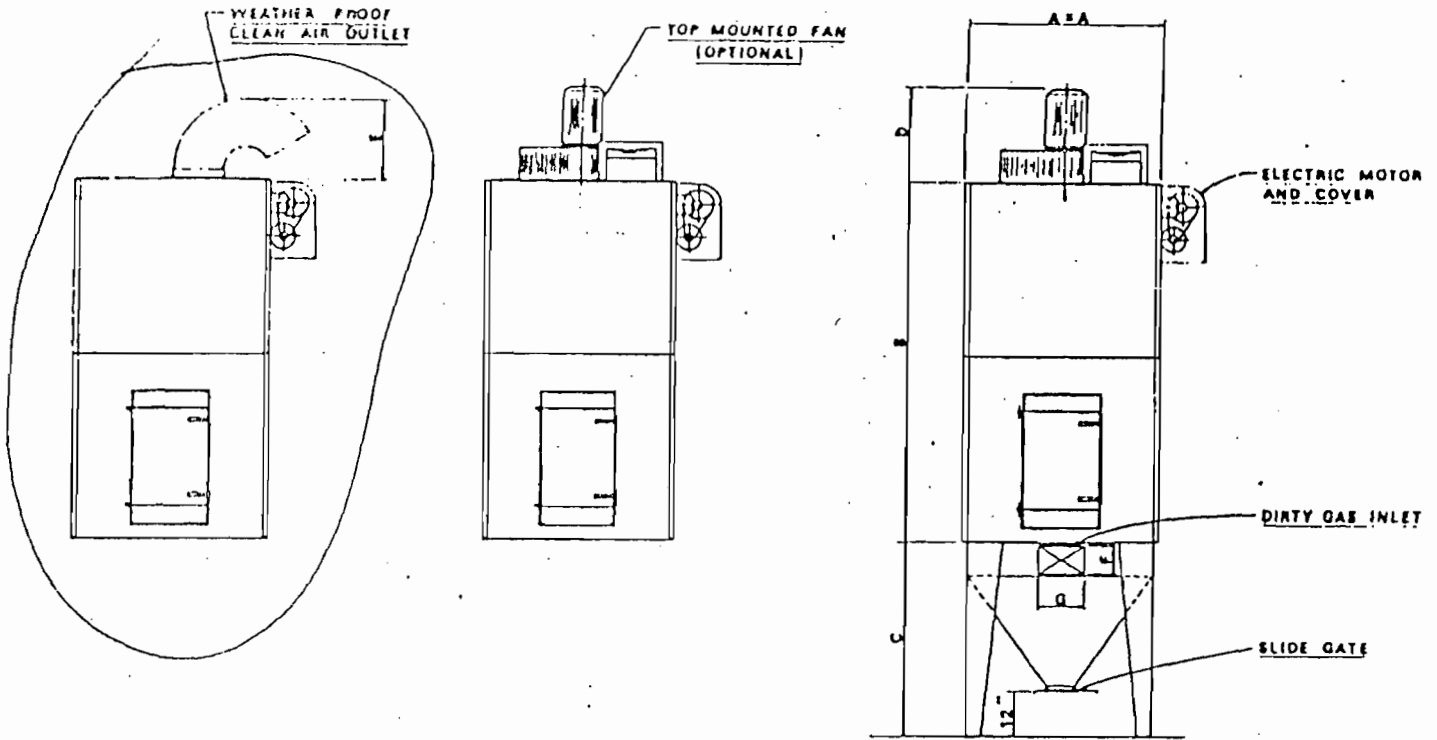
MODEL NO.	CLOTH AREA	MOTOR H.P.	CAPACITY C.F.M.			DIMENSIONS							WT.
			2 to 1	3 to 1	4 to 1	A	B	C	D	E	F MAX.	G MAX.	
380U	380	3	760	1140	1520	42"	47"	7'9"	24"	13'8"	9"	24"	1500
520U	520	5	1040	1560	2080	48"	51"	7'9"	26"	14'2"	9"	30"	1800
680U	680	7 1/2	1360	2040	2720	54"	58"	7'9"	29"	15'0"	12"	30"	2400
860U	860	10	1720	2580	3440	60"	62"	7'9"	30"	15'5"	12"	36"	2800

5HP
520U
520 ft²

ICA

INDUSTRIAL CLEAN AIR, INC.
2929 FIFTH STREET, BERKELEY, CALIF. 94710
REPRESENTATIVES IN PRINCIPAL CITIES

Air/Cloth = 800 cfm / 520 ft² = 1.5 / 1



BIN VENT PRESSURE
~~ARR I~~

BIN VENT SUCTION
ARR II
UNIT AIR FILTERS

STANDARD UNIT
ARR III

SIZE & SQ. FT. CLOTH	WEIGHT			HP	TOP MOUNT FAN								
	ARR I	ARR II	ARR III		WT.	MAX S.P.	A	B	C	D	E	MAX F	MAX G
175U	500#	475#	575#	2	225#	12"	30"	8'0"	39"	19"	15"	6"	8"
275U	700#	675#	850#	3	265#	12"	36"	8'0"	42"	19"	15"	6"	8"
380U	1050#	1000#	1250#	3	265#	12"	42"	7'9"	47"	24"	20"	9"	24"
520U 520U	1175# 1175#	1100#	1500#	5	410#	12"	48"	7'9"	51"	26"	20"	9"	30"
680U	1325#	1250#	1750#	7.5	475#	12"	54"	7'9"	58"	29"	24"	12"	30"
860U	1750#	1650#	2275#	10	575#	12"	60"	7'9"	62"	30"	24"	12"	36"

175U & 275U HAVE UPPER AND LOWER 24" BOLTED ACCESS DOORS

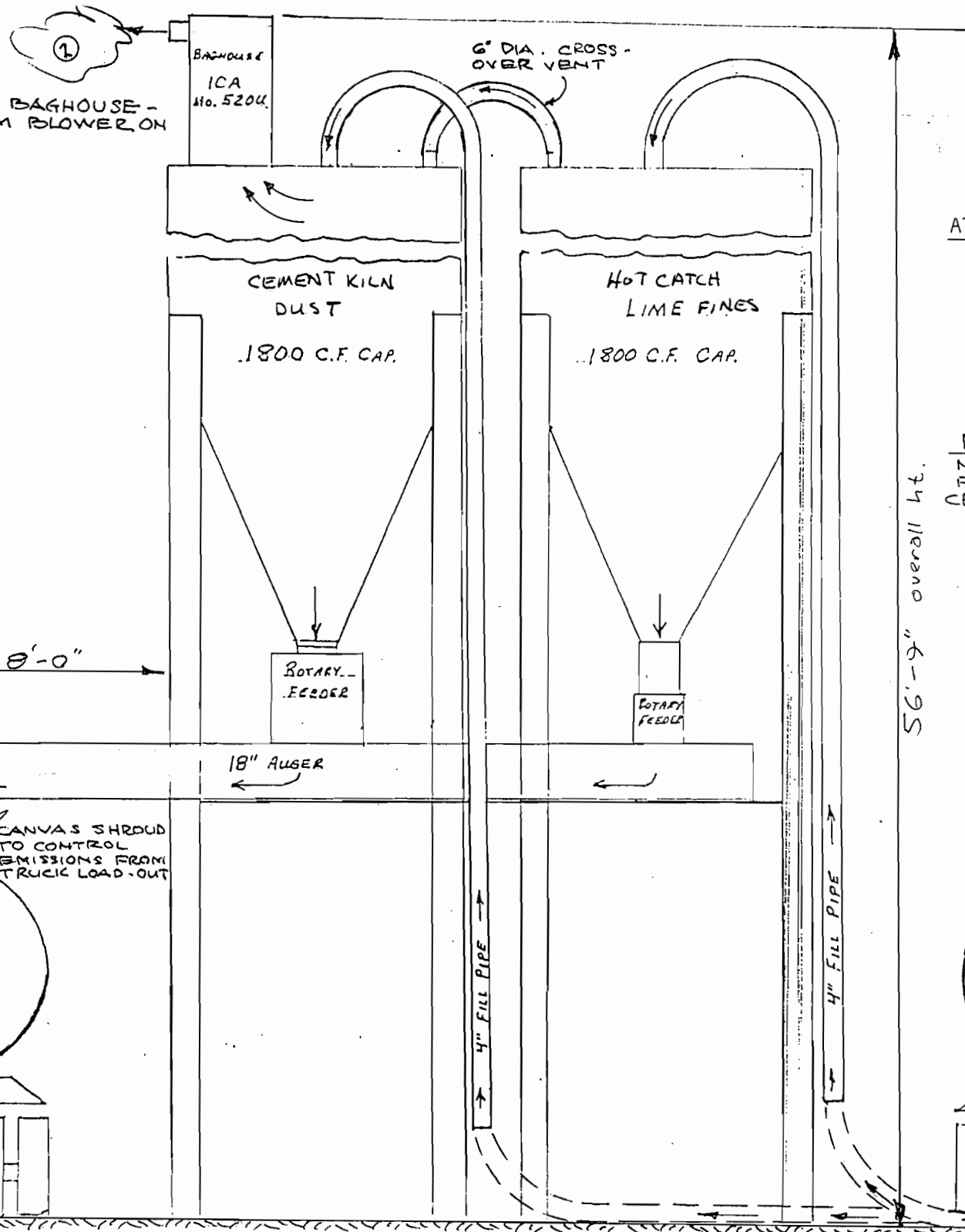
REQUEST CERTIFIED DIMENSIONS FOR CONSTRUCTION

INDUSTRIAL CLEAN AIR, INC.
ICA
Environmental Control
BERKELEY, CALIFORNIA 94710
LOS ANGELES, CALIFORNIA 90011

SCALE	ICA UNIT AIR FILTERS	
DATE	ORDER NO.	DRAWING NO.
DWN.		DCLS-565
C'K'D		

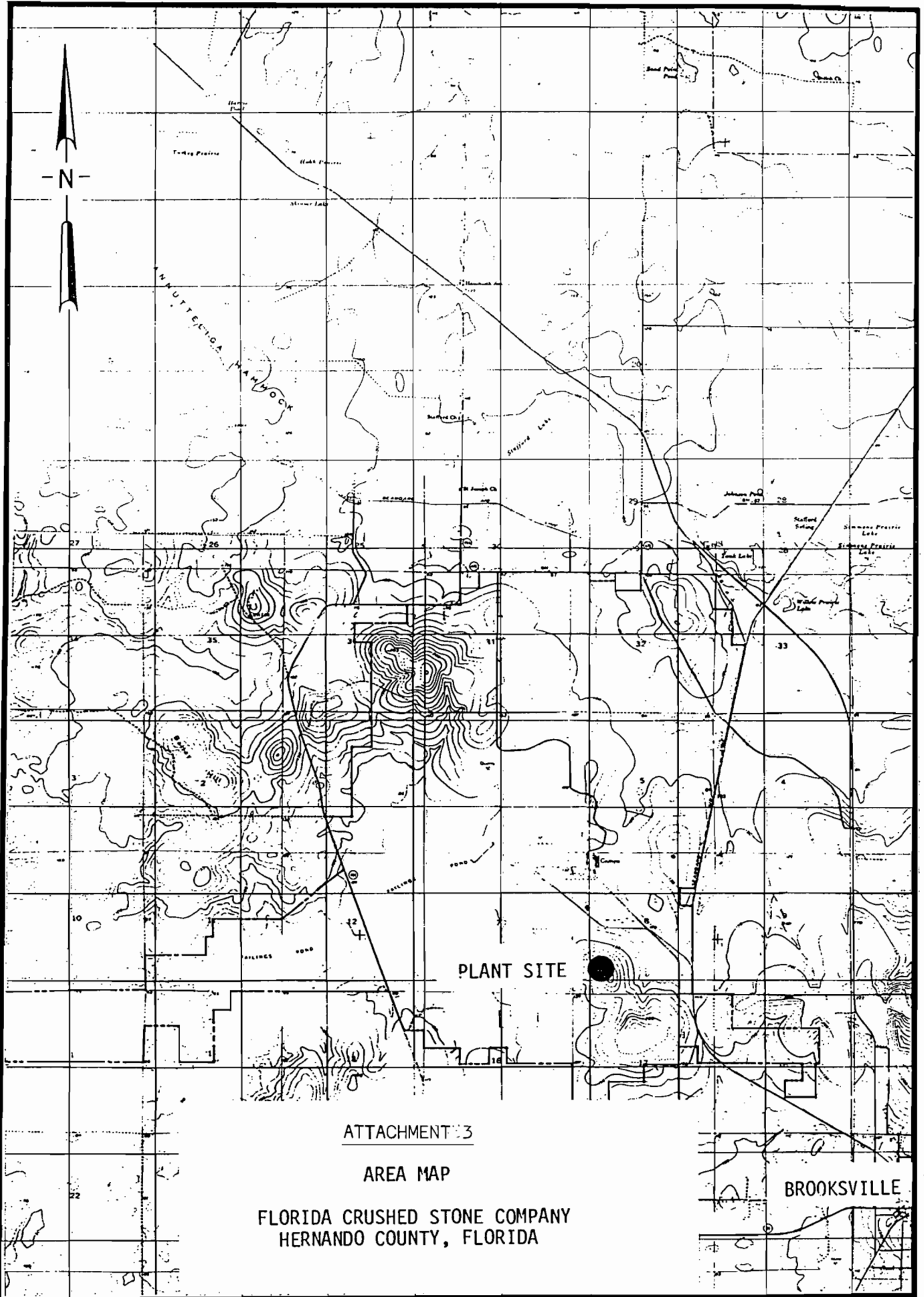
NOTICE: This drawing is the property of Industrial Clean Air, a California corporation, and is loaned subject to the condition that it shall not be used for any other purpose without our consent.

NO FAN ON BAGHOUSE -
USE 800 CFM BLOWER ON
TRUCK



ATTACHMENT 2

PROCESS DIAGRAM
N-VIRO SOIL SOUTH, INC.
FLORIDA CRUSHED STONE
CPL PLANT - BROOKSVILLE, FL



ATTACHMENT 3

AREA MAP

FLORIDA CRUSHED STONE COMPANY
HERNANDO COUNTY, FLORIDA

BROOKSVILLE

ATTACHMENT 4

