



Department of Environmental Protection

Lawton Chiles
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

December 12, 1994

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Charles W. Kearney, Jr., Vice President
Kearney Development Company, Inc.
8621 M. L. King Boulevard E.
Tampa, Florida 33610

Dear Mr. Kearney:

Re: Kearney Development Co., Inc.
File No. AC 29-261151


The Department has made a preliminary review of your application for permit received November 21, 1994, to construct a portable soil cement plant for operation throughout the state. Additional information is needed before this application can be processed. Please furnish the following information, including all calculations, assumptions and reference material, and the Department will resume the completeness review:

1. What is the model and serial number of your Aran continuous mixing plant?
2. Describe the aggregate that the cement is mixed with.
3. What is the maximum quantity of aggregate processed by this plant?
4. Describe the precautions used to minimize fugitive emissions during the transfer of cement from the silo and aggregate from the hopper to the pugmill mixer.
5. What is the source of power used to operate this plant? If it is a diesel engine, please provide the maximum fuel consumption and potential emissions of the engine.

Mr. Charles W. Kearney, Jr.
December 12, 1994
AC 29-261151
Page 2 of 2

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

Sincerely,


John C. Brown, Jr., P.E.
Administrator
Air Permitting and Standards

JCB/WH/bjb

cc: District Air Program Administrators
County Air Program Administrators
Joseph Kowalski, K² Engineering, Inc.

Fold at line over top of envelope

Is your RETURN ADDRESS completed on the reverse side

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
 Mr. Charles W. Kearney, Jr.,
 Kearney Development Company, Inc.
 8621 M. L. King Boulevard E.
 Tampa, Florida 33610

5. Signature (Addressee)
[Signature]

6. Signature (Agent)

4a. Article Number
 Z 751 860 008

4b. Service Type
 Registered Insured
 Certified COD
 Express Mail Return Receipt for Merchandise

7. Date of Delivery
 12/14/94

8. Addressee's Address (Only if requested and fee is paid)

Thank you for using Return Receipt Service.

Z 751 860 008



Receipt for Certified Mail

No Insurance Coverage Provided
 Do not use for International Mail
 (See Reverse)

Sent to Mr. Charles W. Kearney, Jr.	
Street and No. 8621 M. L. King Boulevard E.	
P.O., State and ZIP Code Tampa, Florida 33610	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date AC 29-261151 Mailed: 12/12/94	

PS Form 3800, March 1993

KEARNEY
DEVELOPMENT CO., INC.

8621 M. L. KING BLVD. E. • TAMPA, FLORIDA 33610

TAMPA (813) 621-0855
PINELLAS (813) 443-3609
ORLANDO (407) 856-4076
FAX (813) 620-0001

AC 29 261151

Underground Utilities ☆ Site Development ☆ Since 1956

November 18, 1994

Mr. Willard Hanks
Florida Department of
Environmental Protection
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

RECEIVED
NOV 21 1994

Bureau of
Air Regulation

RECEIVED
1994 NOV 21 PM 12:49
ELR-MAIL ROOM

RE: DEP PERMIT NUMBER A029-173523

Dear Mr. Hanks:

Attached please find an application to operate/construct an air pollution source.

As the above referenced operating permit expires on March 1st, 1995, it will need to be renewed. However, instead of renewing the current operating permit which is valid only for counties within the Southwest and Central Districts, we are applying instead for a permit which will enable us to operate the portable source statewide.

Upon issuance of the new permit in a timely fashion, we will operate under its authority and surrender our current operating permit

As can be seen from Appendix E of the attached permit application, the source in question is an extremely portable piece of construction equipment and not a stationary device. It is not uncommon to operate this source in the morning and relocate it in the afternoon to a new location. Accordingly, as this source is already operating under an operating permit, it is not possible to list a source location as required on Page 1 of the permit application or comply fully with the requirements of Section V, Items 7 & 8.

Having operated under the current operating permit for almost five years, there are certain aspects of some of the Specific Conditions attached to the permit that we would like to address.



USE THE AIRBILL FOR SHIPMENTS WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII.
USE THE INTERNATIONAL AIRWAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE TRACKING NUMBER
3436989942

450411
3436989942

RECIPIENT'S COPY

From (Your Name) Please Print Allen Payne		Date 11/18/94		Your Phone Number (Very Important) (313) 221-0055		To (Recipient's Name) Please Print Mr. Willard Hanks		Recipient's Phone Number (Very Important)			
Company ARMY DEVELOPMENT CO INC		Department/Floor No.		Department/Floor No.		Company Florida Department of Environmental Protection		Department/Floor No.			
Street Address 1001 E MARTIN LUTHER KING BLVD		State FL		ZIP Required 33510		Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.) 2600 Blair Stone Road		State FL			
City Tallahassee		State FL		ZIP Required 32399-2400		IF HOLD AT FEDEX LOCATION, Print FEDEX Address Here		City Tallahassee			
PAYMENT 1 <input type="checkbox"/> Bill Sender 2 <input type="checkbox"/> Bill Recipient's Fedex Acct. No. 3 <input type="checkbox"/> Bill 3rd Party Fedex Acct. No. 4 <input type="checkbox"/> Bill Credit Card		SERVICES (Check only one box) Priority Overnight (Delivery by next business morning) <input type="checkbox"/> OTHER PRIORITY <input type="checkbox"/> OTHER PRIORITY <input type="checkbox"/> OTHER PRIORITY <input type="checkbox"/> OTHER PRIORITY		DELIVERY AND SPECIAL HANDLING (Check services required) 1 <input type="checkbox"/> HOLD AT FEDEX LOCATION WEEKDAY (Delivery by next business afternoon) 2 <input type="checkbox"/> DELIVER WEEKDAY 3 <input type="checkbox"/> HOLD AT FEDEX LOCATION SATURDAY (Fill in Section H) 4 <input type="checkbox"/> DELIVER SATURDAY (Extra charge) (Not available to all locations) 5 <input type="checkbox"/> SATURDAY PICK-UP (Extra charge)		DIM SHIPMENT (Chargeable Weight) Total <input type="checkbox"/> Total <input type="checkbox"/> Total <input type="checkbox"/> Total <input type="checkbox"/> Total <input type="checkbox"/> Total		Received By: _____ Date _____ Date/Time Received: _____ Fedex Employee Number _____		Federal Express Use Base Charges Declared Value Charge Other Charges Total Charges	
ECONOMY (Two-Day) (Delivery by second business day) <input type="checkbox"/> ECONOMY <input type="checkbox"/> ECONOMY <input type="checkbox"/> ECONOMY <input type="checkbox"/> ECONOMY		Standard Overnight (Delivery by next business afternoon) <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER		Special Handling 6 <input type="checkbox"/> DANGEROUS GOODS (Extra charge) 7 <input type="checkbox"/> DRY ICE (Extra charge) 8 <input type="checkbox"/> HOLIDAY DELIVERY (If delayed) (Extra charge)		DIM SHIPMENT (Chargeable Weight) Total <input type="checkbox"/> Total <input type="checkbox"/> Total <input type="checkbox"/> Total <input type="checkbox"/> Total		Received By: _____ Date _____ Date/Time Received: _____ Fedex Employee Number _____		Federal Express Use Base Charges Declared Value Charge Other Charges Total Charges	
FREIGHT SERVICES (For packages over 50 lbs) 9 <input type="checkbox"/> OVERNIGHT 10 <input type="checkbox"/> FREIGHT 11 <input type="checkbox"/> FREIGHT		Government Overnight (Delivery by next business afternoon) <input type="checkbox"/> GOVERNMENT <input type="checkbox"/> GOVERNMENT <input type="checkbox"/> GOVERNMENT		Special Handling 12 <input type="checkbox"/> DANGEROUS GOODS (Extra charge) 13 <input type="checkbox"/> DRY ICE (Extra charge) 14 <input type="checkbox"/> HOLIDAY DELIVERY (If delayed) (Extra charge)		DIM SHIPMENT (Chargeable Weight) Total <input type="checkbox"/> Total <input type="checkbox"/> Total <input type="checkbox"/> Total <input type="checkbox"/> Total		Received By: _____ Date _____ Date/Time Received: _____ Fedex Employee Number _____		Federal Express Use Base Charges Declared Value Charge Other Charges Total Charges	

REVISION DATE 4/94
PART #145412 FEM 1094
FORMAT #160

1) Specific Conditions 2 & 3.

As can be seen from the new construction application, Section III (C) and Section V Items 1, 2, & 3, we wish to increase the loading time of the cement silo to a maximum of 4.5 hours per day, 5 days per week, 52 weeks per year. Also we wish to increase the daily transfer of cement to the silo to a maximum of 162 tons. These increases will still maintain particulate matter emissions to less than 5.0 pounds per hour and 15.0 tons per year and still exempt the facility from the provisions of Subsection 17-2.650 (2) (a) (b). Subsequently Specific Conditions 2 & 3 will require ammendment

2) Specific Condition 5.

Considering the Method 9 Visible Emission Test results to date, all of which indicate 0% opacity, (refer Appendix F of Application), we feel that the required visible emission testing at intervals of four months is unreasonable and creates an undue hardship upon our company. We would like to propose instead that the Visible Emissions Testing be required on an annual basis with a visual inspection of the dust collector undertaken prior to erection of the silo at a new location. This would insure that the dust collector is in perfect operating condition and that no part of it was dislodged during transportation.

3) Specific Conditions 8, 12 & 13.

As this will now be a statewide permit, for notification, reporting, and renewal purposes whose jurisdiction will it fall under?

4) Specific Condition 10.

As has been indicated above, this source is an extremely portable piece of construction equipment and depending on construction schedules can be relocated at any time on a moment's notice. It is not uncommon to relocate the source up to 100 times per year. It should also be noted that this source is generally considered to be a piece of construction equipment that is used during certain phases of a construction project just as a bulldozer, front end loader or soil stabilization mixer is. Considering these observations, it is virtually impossible to comply with Specific Condition 10 in its entirety and we will need to discuss how we can modify this condition and still satisfy the requirements of your department.

If you have any questions or need clarification on certain aspects of this application, please feel free to call me.

Respectfully,



Alan G. Payne

Manager-Pugmill Operations

AGP/agp

Cc: Bing Kearney, KDC

Bryan Kearney, KDC

- Attachments:
- 1) Four (4) copies of Application To Construct Air Pollution Source.
 - 2) Check in the amount of \$1000.00 made payable to Florida Department of Environmental Protection.

3958

KEARNEY DEVELOPMENT COMPANY, INC.
8621 M. L. KING BLVD. E.
TAMPA, FL 33610

November 18 19 94
83-568/831

\$ 1,000.00
DOLLARS

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

One Thousand Dollars and no/100



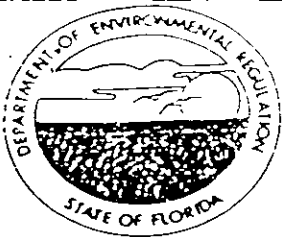
020-001
315 South Calhoun Street
Tallahassee, Florida 32301

Jane Kearney

FOR Pugmill permit application fee

⑈003958⑈ ⑈063105683⑈ 200007248⑈

SECURE AMERICAN



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

AC 29-261151

#1,000 p.d.
11-31-94
Receipt # 224870

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Soil Cement Production [] New [] Existing¹

APPLICATION TYPE: [] Construction [] Operation [] Modification

COMPANY NAME: Kearney Development Co., Inc. COUNTY: Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e.: Lime Cement silo with reverse jet dust collector)
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired)

SOURCE LOCATION: Street Various - Refer to cover letter City N/A

UTM: East N/A North N/A

Latitude _____ Longitude _____

APPLICANT NAME AND TITLE: Charles W. (Bing) Kearney, Jr., Vice President

APPLICANT ADDRESS: 8621 M.L. King Blvd., E., Tampa, FL 33610

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative* of Kearney Dev. Co., 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 permit establishment.

*Attach letter of authorization

Signed: [Signature]

Charles W. (Bing) Kearney, Jr., VP
Name and title (Please type)

Refer Attachments, Page 2

Date: 11-18-94 Telephone No. 813-621-0855

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 permit application. There is reasonable assurance, in my professional judgment,

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 Joseph A. Kowalski
Joseph A. Kowalski

Joseph A. Kowalski
11/18/94

Name (Please Type)

K² Engineering, Inc.

Company Name (Please Type)

7407 U.S. Hwy. 301 South Riverview, FL 33569

Mailing Address (Please Type)

Florida Registration No. 34287 Date: 11-18-94 Telephone No. (813) 677-0706

SECTION II: GENERAL PROJECT INFORMATION

1. 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.

The purpose of this application is to obtain a statewide operating permit in lieu of the current Operating Permit #A029-173523 (refer Appendix D) which allows operation in a limited number of Florida counties. Once the new permit is issued, the current operating permit will be surrendered.

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

Start of Construction June, 1989 Completion of Construction June, 1989

3. 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.)

DCE Volkes DLM V10/10 Dust Collector -- \$10,000

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

1) Permit No. AC48-156993 Issued 6/05/89, Expired 4/10/91

2) Permit No. A029-173523 Issued 2/14/90, Expires 3/01/95

E. Requested permitted equipment operating time: hrs/day 4.5 ; days/wk 5 ; wks/yr 52 ;
if power plant, hrs/yr N/A; if seasonal, describe: Silo and reverse jet dust
collector operate only when the storage silo is being pneumatically loaded
by a cement tanker. This averages 6 loads per day at approximately 45
minutes per load.

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

1. Is this source in a non-attainment area for a particular pollutant? Yes
a. If yes, has "offset" been applied? No
b. If yes, has "Lowest Achievable Emission Rate" been applied? No
c. If yes, list non-attainment pollutants. Particulate
2. Does best available control technology (SACT) 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? N/A

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

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

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

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

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		
Cement Dust	Particulate	0.01	72,000.00	Refer Attachments Page 7

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

- Total Process Input Rate (lbs/hr): 72,000.00
- Product Weight (lbs/hr): N/A

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

Name of Contaminant	Emission ¹		Allowed Emission ² 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	
Particulate	0.010	0.0059	17-2.650 (2)(a)(b)	< 5 lbs/hr. < 15 tons/yr	9.72	5.69	Refer Attach. Page 7

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)
DCE Dalamatic Dust Collector Series DLM V10/10	Particulate	99.9%	1 Micron	Attached Efficiency Statement Refer Appendix B

E. Fuels N/A

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

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

Fuel Analysis:

Percent Sulfur: _____ Percent Ash: _____

Density: _____ lbs/gal Typical Percent Nitrogen: _____

Heat Capacity: _____ BTU/lb _____ BTU/gal

Other Fuel Contaminants (which may cause air pollution): _____

F. If applicable, indicate the percent of fuel used for space heating.

Annual Average _____ Maximum _____

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

All cement dust that has accumulated on outer surface of filter element is dislodged by a "reverse jet" of compressed air and the dust then falls into the silo.

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

Stack Height: 40 ft. Stack Diameter: 2.25 ft.²
 Gas Flow Rate: 450 ACFM 450 DSCFM Gas Exit Temperature: Ambient °F.
 Water Vapor Content: None % Velocity: 3.33 FPS

Refer Attachments Page 3 for calculations

SECTION IV: INCINERATOR INFORMATION

N/A

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: _____

Refer Attachments Page 4

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

Used filter bags are disposed of at a County landfill

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

SECTION V: SUPPLEMENTAL REQUIREMENTS

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.

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 N/A

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

Yes No

Contaminant	Rate or Concentration

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

Yes No

Contaminant	Rate or Concentration

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

Contaminant	Rate or Concentration

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

- | | |
|---------------------------|--------------------------|
| 1. Control Device/System: | 2. Operating Principles: |
| 3. Efficiency:* | 4. Capital Costs: |

*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

N/A

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.

KEARNEY DEVELOPMENT COMPANY, INC.

ATTACHMENTS

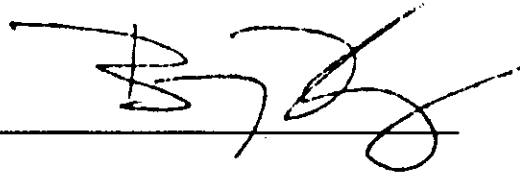
SECTION I - STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT - Letter of Authorization.

To Whom It May Concern:

Please let this communication serve as written confirmation that I, C. W. (Bing) Kearney, Jr., am a duly authorized officer of Kearney Development Co., Inc.

Authorized Signature: _____

A handwritten signature in black ink, appearing to be 'Bing Kearney', written over a horizontal line.

Date: 11/18/94

Bing Kearney
Vice President

SECTION III - AIR POLLUTION SOURCES & CONTROL DEVICES

ITEM H - EMISSION STACK GEOMETRY AND FLOW CHARACTERISTICS

Assumptions:

Stack Diameter: 18" x 18" square

Air Flow Rate: 450 ACFM

Calculations:

$18" \times 18" = (324 \text{ sq. ins.}) \div (144 \text{ sq. ins./sq. ft.}) = 2.25 \text{ sq. ft.}$

$(450 \text{ ACFM}) \div (2.25 \text{ sq. ft.}) = 200.0 \text{ ft/min.}$

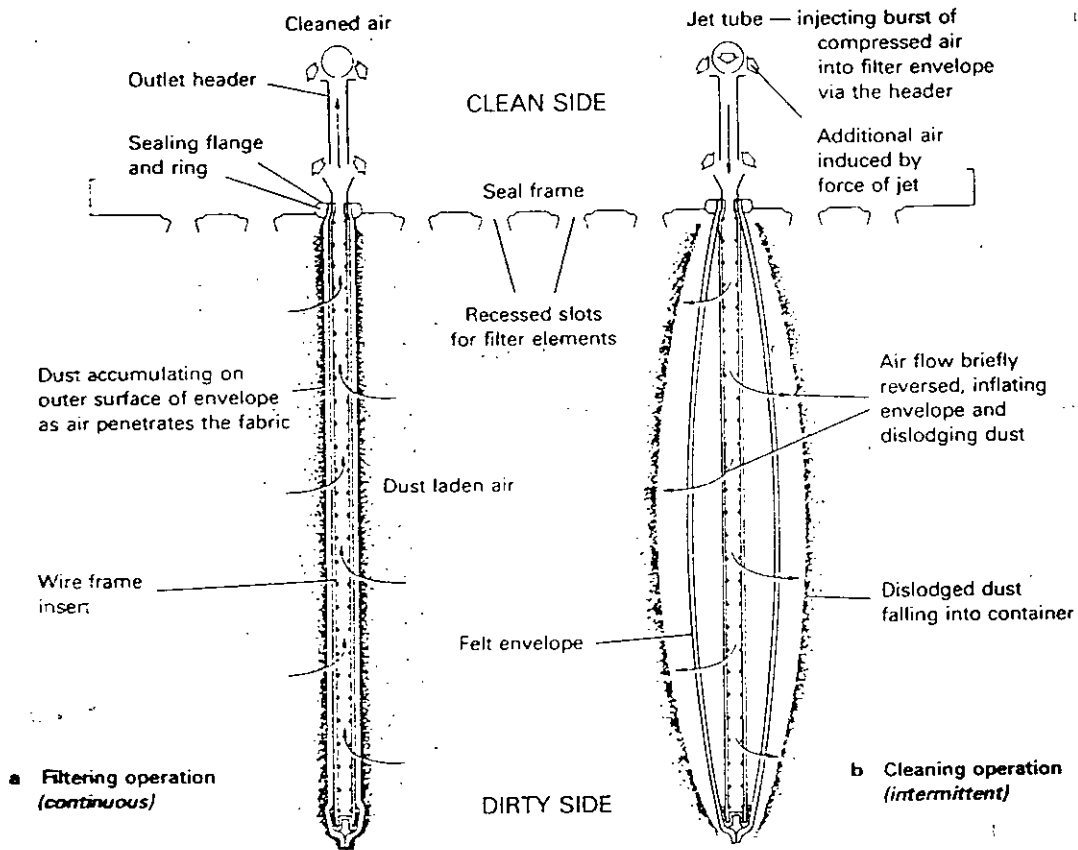
$(200.0 \text{ ft/min}) \div (60 \text{ sec./min.}) = 3.33 \text{ ft/sec}$

SECTION IV - INCINERATOR INFORMATION

PRINCIPLE OF OPERATION

Dust laden air is introduced into the Dalamatic through inlet connections near the top of the collector, utilizing downflow design principles. This air is drawn through the filter elements, where the dust is captured on the outer surface of the fabric. The air passes through the fabric and out of the filter as shown in the diagram below.

To maintain continuous operation, each envelope is regularly cleaned by a reverse jet of compressed air. A short burst of compressed air is released by a pilot actuated diaphragm valve and injected by the jet tube through the insert header into the envelope. This causes a momentary reversal of the air flow, resulting in a brief inflation of the envelope which dislodges the accumulated dust cake. The dust then falls into the hopper, aided by the downward air movement of air inherent in the downflow design. As a consequence of this downflow design, dust re-entrainment and re-deposition are reduced.



Section thru seal frame and two filter elements, showing principle of operation

SECTION V - SUPPLEMENTAL REQUIREMENTS

ITEM 1 - PROCESS INPUT RATE

Assumptions:

Cement Tanker Capacity : 54,000 lb/truck = 27.00 ton/truck
Tanker Unloading Time : 45 min/truck
Cement Silo Loading/Operating Time: 6 times/day, 5 days/week, 52 weeks/year

Calculations:

$$\begin{aligned} 54,000 \text{ lb} \div 45 \text{ min.} &= (1200 \text{ lb/min}) (60 \text{ min/hr}) \\ &= (72,000 \text{ lb/hr}) \div (2,000 \text{ lb/ton}) \\ &= 36.00 \text{ ton/hr} \end{aligned}$$

$$(36.00 \text{ ton/hr}) (4.5 \text{ hr/day}) (5 \text{ days/wk}) (52 \text{ wks/yr}) = 42,120 \text{ ton/yr}$$

ITEMS 2 & 3 - PARTICULATE EMISSIONS CALCULATIONS

Assumptions:

Cement Silo Loading Rate = 36.00 ton/hr (4.5 hr/day, 5 days/wk, 52 wks/yr)
Emission Factor = 0.27 lb/ton (per Table 8.10-1, Appendix A)
Baghouse Efficiency = 99.9% (per DEC Statement, Appendix B)

Emission Calculations

1) Actual Emissions:

$$(36.00 \text{ ton/hr}) (0.27 \text{ lb/ton}) (1-0.999) = 0.010 \text{ lb/hr}$$

$$\{(0.010 \text{ lb/hr}) (4.5 \text{ hr/day}) (5 \text{ days/wk}) (52 \text{ wks/yr})\} \div (2,000 \text{ lb/ton}) = 0.0059 \text{ ton/yr}$$

2) Allowable Emissions:

Less than 5.0 lb/hr, 15.0 tons/yr as per Rule 17-2.650 (2) (a) (b), F.A.C.

3) Potential Emissions:

$$(36.00 \text{ ton/yr}) (0.27 \text{ lb/ton}) = 9.72 \text{ lb/hr}$$

$$\{(9.72 \text{ lb/hr}) (4.5 \text{ hr/day}) (5 \text{ day/wk}) (52 \text{ wks/yr})\} \div (2,000 \text{ lb/ton}) = 5.69 \text{ ton/yr}$$

ITEM 4 - AIR POLLUTION CONTROL

Assumptions:

Baghouse Efficiency = 99.9% (per DEC Statement, Appendix B.)
Air Flow Rate = 450 CFM
Cloth Filter Area = 108 square feet

Calculations:

$V = (450 \text{ CFM}) \div (108 \text{ sq. ft.}) = 4.1666 \text{ ft/min}$
Air To Cloth Ratio = 4.17 : 1

ITEM 5 - POLLUTION DEVICE EFFICIENCY

Assumptions:

Actual Emissions = 0.010 lb/hr
Potential Emissions = 9.720 lb/hr
Baghouse Efficiency = 99.9%
Actual Emissions = Potential (1 - Efficiency)

Calculations:

Efficiency = $\{(Pot. \text{ Emissions} - Act. \text{ Emissions}) \div (Pot. \text{ Emissions})\} (100)$
= $\{(9.720 \text{ lb/hr} - 0.010 \text{ lb/hr}) \div 9.720 \text{ lb/hr}\} (100)$
= 99.9%

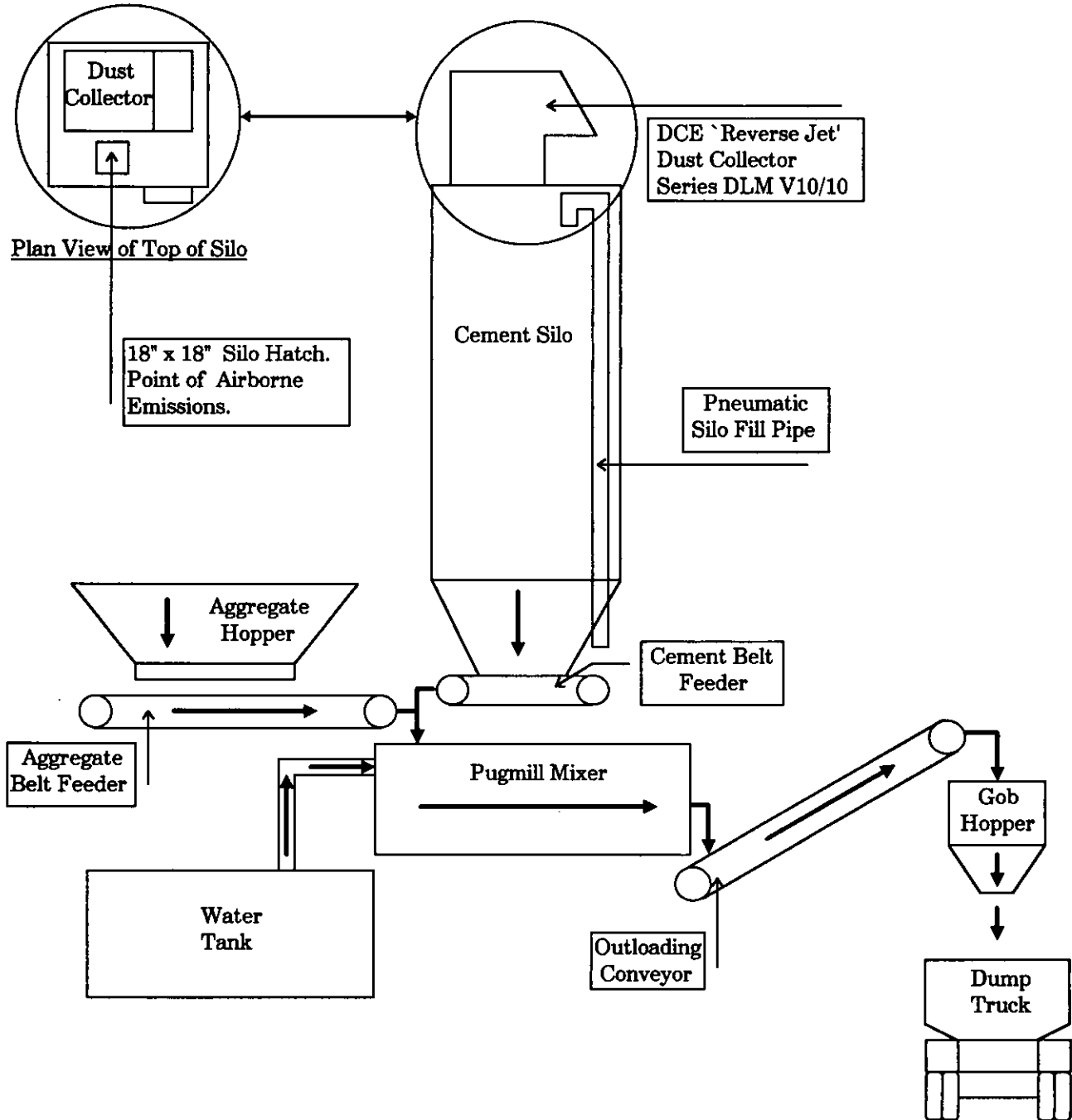
SECTION V - SUPPLEMENTAL REQUIREMENTS CONTINUED

ITEM 6 - PROCESS FLOW DIAGRAM

ARAN Portable Soil-Cement Plant

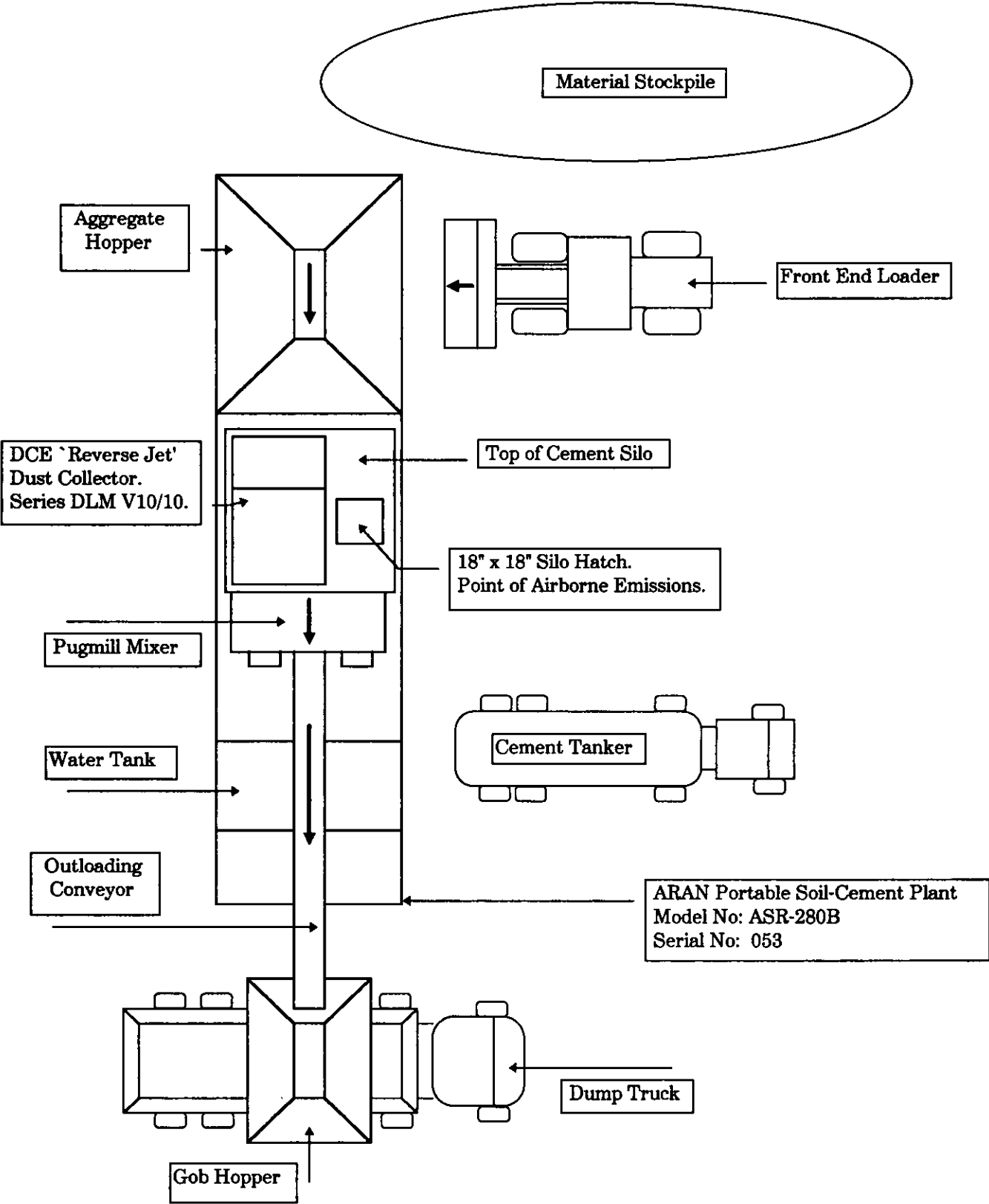
Model No: ASR-280B

Serial No: 053



SECTION V - SUPPLEMENTAL REQUIREMENTS

ITEMS 7 & 8 - TYPICAL PLOT PLAN



APPENDIX A

UNCONTROLLED PARTICULATE EMISSION FACTORS FOR CONCRETE BATCHING

TABLE 8.10-1. UNCONTROLLED PARTICULATE EMISSION FACTORS FOR CONCRETE BATCHING

Source	kg/Mg of material	lb/ton of material	lb/yd ³ of concrete ^a	Emission Factor Rating
Sand and aggregate transfer to elevated bin ^b	0.014	0.029	0.05	E
Cement unloading to elevated storage silo				
Pneumatic ^c	0.13	0.27	0.07	D
Bucket elevator ^d	0.12	0.24	0.06	E
Weigh hopper loading ^e	0.01	0.02	0.04	E
Truck loading (truck mix) ^e	0.01	0.02	0.04	E
Mixer loading (central mix) ^e	0.02	0.04	0.07	E
Vehicle traffic (unpaved road) ^f	4.5 kg/VKT	16 lb/VMT	0.18	C
Wind erosion from sand and aggregate storage piles ^g	3.9 kg/hectare/day	3.5 lb/acre/day	0.1 ^h	D
Total process emissions (truck mix) ⁱ	0.05	0.10	0.20	E

^aBased on a typical yd³ weighing 1,818 kg (4,000 lb) and containing 227 kg (500 lb) cement, 564 kg (1,240 lb) sand, 864 kg (1,900 lb) coarse aggregate and 164 kg (360 lb) water.

^bReference 6.

^cFor uncontrolled emissions measured before filter. Based on two tests on pneumatic conveying controlled by a fabric filter.

^dReference 7. From test of mechanical unloading to hopper and subsequent transport of cement by enclosed bucket elevator to elevated bins with fabric socks over bin vent.

^eReference 5. Engineering judgement, based on observations and emission tests of similar controlled sources.

^fFrom Section 11.2.1, with $k = 0.8$, $s = 12$, $S = 20$, $W = 20$, $w = 14$, and $p = 100$. VKT = vehicle kilometers traveled. VMT = vehicle miles traveled.

^gBased on facility producing 23,100 m³/yr (30,000 yd³/yr), with average truck load of 6.2 m³ (8 yd³) and plant road length of 161 meters (1/10 mile).

^hFrom Section 8.19.1, for emissions < 30 µm for inactive storage piles.

ⁱAssumes 1,011 m² (1/4 acre) of sand and aggregate storage at plant with production of 23,100 m³/yr (30,000 yd³/yr).

^jBased on pneumatic conveying of cement at a truck mix facility. Does not include vehicle traffic or wind erosion from storage piles.

APPENDIX B

D.C.E. INC., - EFFICIENCY STATEMENT



DCE, Inc.

11301 Electron Drive
Jeffersontown KENTUCKY 40299-3867

**DUST CONTROL
EQUIPMENT**

TEL (502) 267-0707

FAX (502) 267-4490

R E C E I V E D

Mr. Alan Payne
Kearney Development
8621 M.L. King Blvd
Tampa, FL 33610

SEP 26 1994

September 22, 1994

KEARNEY DEVELOPMENT
COMPANY, INC.

RE: Dalamatic Efficiency Statement

Alan:

As you requested, here is a general efficiency that is good for all Dalamatic units:

The collector system will provide a 99.9% efficiency on a time-weighted average down to and including 1 micron particle size provided the collector is operated at the air volumes listed in the catalog and maintained as required in the operation manual provided with the collector.

Good Day,

Adrian D. Gleason

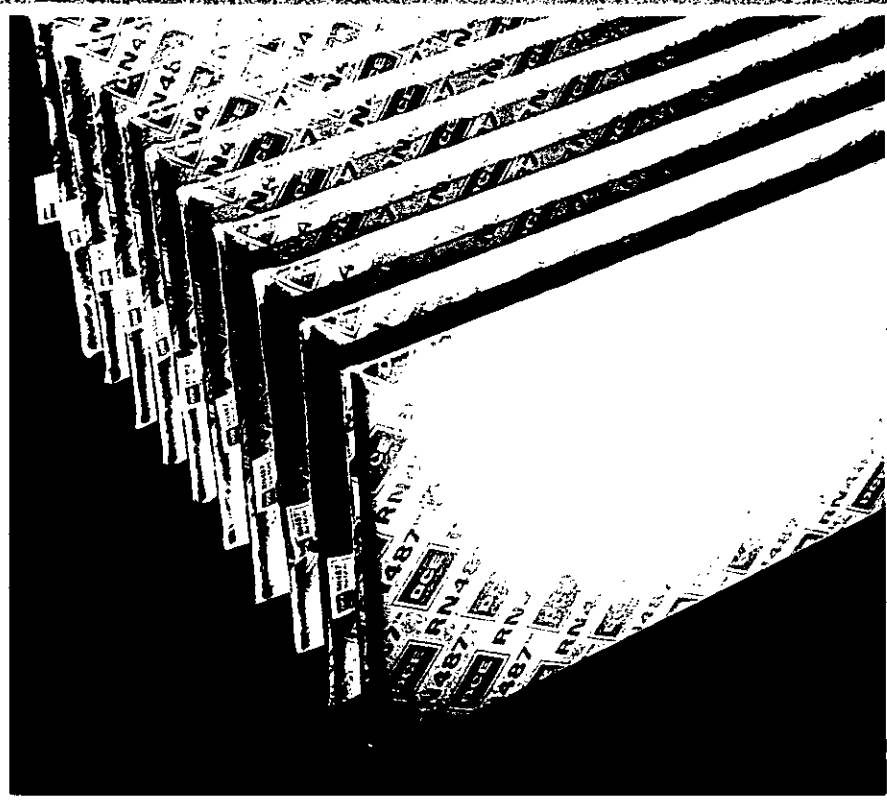
APPENDIX C
DALAMATIC DUST COLLECTOR DATA



DUST CONTROL
EQUIPMENT

Dalamatic®

AUTOMATIC REVERSE JET
FABRIC FILTERS



THE WORLD'S NUMBER ONE SELLING
DUST COLLECTOR

SECTION V - SUPPLEMENTAL REQUIREMENTS

ITEM 1 - PROCESS INPUT RATE

Assumptions:

Cement Tanker Capacity : 54,000 lb/truck = 27.00 ton/truck
Tanker Unloading Time : 45 min/truck
Cement Silo Loading/Operating Time: 6 times/day, 5 days/week, 52 weeks/year

Calculations:

$$\begin{aligned} 54,000 \text{ lb} \div 45 \text{ min.} &= (1200 \text{ lb/min}) (60 \text{ min/hr}) \\ &= (72,000 \text{ lb/hr}) \div (2,000 \text{ lb/ton}) \\ &= 36.00 \text{ ton/hr} \end{aligned}$$

$$(36.00 \text{ ton/hr})(4.5 \text{ hr/day})(5 \text{ days/wk})(52 \text{ wks/yr}) = 42,120 \text{ ton/yr}$$

ITEMS 2 & 3 - PARTICULATE EMISSIONS CALCULATIONS

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Cement Silo Loading Rate = 36.00 ton/hr (4.5 hr/day, 5 days/wk, 52 wks/yr)
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Baghouse Efficiency = 99.9% (per DEC Statement, Appendix B)

Emission Calculations

1) Actual Emissions:

$$(36.00 \text{ ton/hr})(0.27 \text{ lb/ton})(1-0.999) = 0.010 \text{ lb/hr}$$

$$\begin{aligned} \{(0.010 \text{ lb/hr})(4.5 \text{ hr/day})(5 \text{ days/wk})(52 \text{ wks/yr})\} \div (2,000 \text{ lb/ton}) \\ = 0.0059 \text{ ton/yr} \end{aligned}$$

2) Allowable Emissions:

Less than 5.0 lb/hr, 15.0 tons/yr as per Rule 17-2.650(2)(a)(b), F.A.C.

3) Potential Emissions:

$$(36.00 \text{ ton/yr})(0.27 \text{ lb/ton}) = 9.72 \text{ lb/hr}$$

$$\{(9.72 \text{ lb/hr})(4.5 \text{ hr/day})(5 \text{ day/wk})(52 \text{ wks/yr})\} \div (2,000 \text{ lb/ton}) = 5.69 \text{ ton/yr}$$

ITEM 4 - AIR POLLUTION CONTROL

Assumptions:

Baghouse Efficiency = 99.9% (per DEC Statement, Appendix B.)
Air Flow Rate = 450 CFM
Cloth Filter Area = 108 square feet

Calculations:

$V = (450 \text{ CFM}) \div (108 \text{ sq. ft.}) = 4.1666 \text{ ft/min}$
Air To Cloth Ratio = 4.17 : 1

ITEM 5 - POLLUTION DEVICE EFFICIENCY

Assumptions:

Actual Emissions = 0.010 lb/hr
Potential Emissions = 9.720 lb/hr
Baghouse Efficiency = 99.9%
Actual Emissions = Potential (1 - Efficiency)

Calculations:

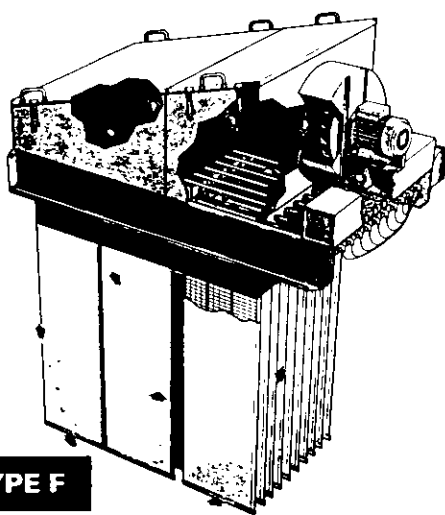
Efficiency = $\{(Pot. \text{ Emissions} - Act. \text{ Emissions}) \div (Pot. \text{ Emissions})\} (100)$
= $\{(9.720 \text{ lb/hr} - 0.010 \text{ lb/hr}) \div 9.720 \text{ lb/hr}\} (100)$
= 99.9%



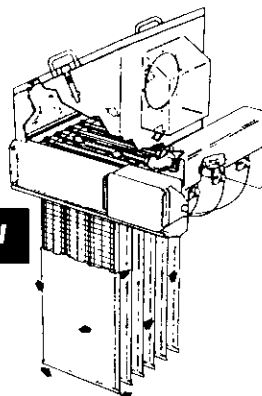
Weather protection — Dalmatic DLM-V20/10F Insertable, with weather protection, ventilating aluminium storage silo.

RANGE

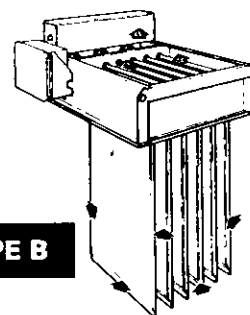
TYPES



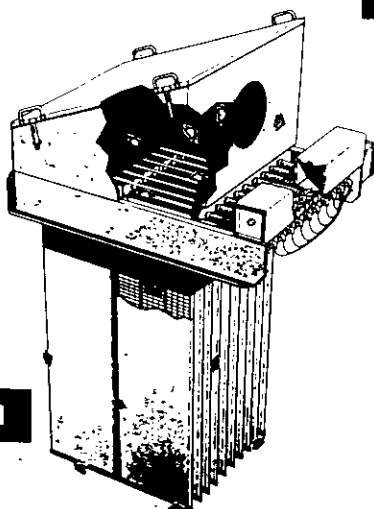
TYPE F



TYPE W



TYPE B



TYPE H

APPLICATIONS

DALAMATIC INSERTABLES, SERIES DLM-V

The DCE Dalmatic® Insertable Dust Filter — the original *insertable dust filter* — is designed to deal with the heavy burdens and high filtration velocities encountered in the conveying of particulate products. Simply inserted into a silo, it provides continuous filtration of conveying or displaced air and maintains a high collection efficiency at constant system resistance. The range has been continually developed and now consists of over 60 different sizes and types with a wide variety of applications in the handling, processing and storage of bulk materials and powders.

There are four types of Dalmatic Insertable:

Type B Basic filter for pressure systems located indoors.

Type H Filter with exit header for connection to a fan or discharge ducting. The filter is weatherproof and suitable for indoor and outdoor application.

Type W Filter with a weather cowl for pressure systems where the filter is located outdoors or exposed to adverse conditions.

Type F Weatherproof filter fitted with an integral fan for negative pressure applications. An acoustic diffuser can be supplied as an optional extra.

(Mounting positions — All Dalmatic® Insertable filters can be mounted either vertically or horizontally to suit application requirements).

In pneumatic conveying systems, Dalmatic Insertables can be inserted through the top of silos and storage vessels to separate the product from conveying and displaced air preventing product loss and dust nuisance. The collected dust drops directly into the silo. DLM-V Type B and W are normally applied in positive pressure systems, Type F, and H are used where a suction fan is needed to overcome system negative pressure. In mechanical conveying systems the dust generated by product loading, transfer and discharge can be controlled by a DLM-V. Type F in an enclosure. The collected agglomerated dust is returned directly to the product being conveyed. This saves space, makes ducting and other ancillary equipment unnecessary and avoids the problem of collected dust disposal.

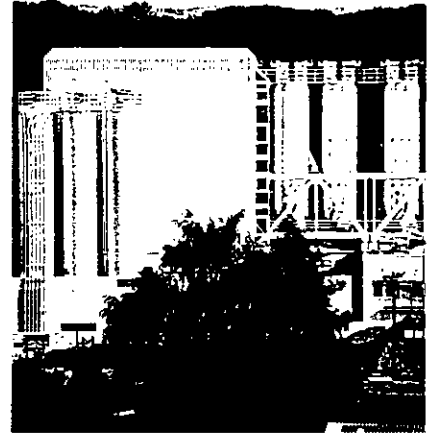
Dalmatic Insertables can also be integrated with process machinery requiring dust control such as fluid bed reactors, mixers, blenders, mills and crushers, or be used to ventilate powder spray booths, automatic bag slitting machines and a wide variety of similar equipment.

DALAMATIC INSERTABLE DLM-V RANGE

Filter size designation	Fabric area	No. of elements	Element length	Element configuration	Integral fan*	Fan motor rating
DLM V4/7	43ft ²	6	0.7m		F1	1hp
DLM V6/10	64ft ²	6	1.0m		F1	1hp
DLM V7/7	75ft ²	10	0.7m		F1 K3	1hp 2hp
DLM V8/7	86ft ²	12	0.7m		F1 K3	1hp 2hp
DLM V9/15	97ft ²	6	1.5m		F1 K3	1hp 2hp
DLM V10/10	108ft ²	10	1.0m		F1 K3	1hp 2hp
DLM V12/10	129ft ²	12	1.0m		K3 K5	2hp 3hp
DLM V14/7	150ft ²	20	0.7m		K3 K5	2hp 3hp
DLM V15/15	161ft ²	10	1.5m		K3 K5	2hp 3hp
DLM V18/15	194ft ²	12	1.5m		K3 K5 F6	2hp 3hp 7½hp
DLM V20/10	215ft ²	20	1.0m		K3 K5 F6	2hp 3hp 7½hp
DLM V21/7	226ft ²	30	0.7m		K3 K5 F6	2hp 3hp 7½hp
DLM V30/10	323ft ²	30	1.0m		K5 F6 F10	3hp 7½hp 7½hp
DLM V30/15	323ft ²	20	1.5m		K5 F6 F10	3hp 7½hp 7½hp
DLM V45/15	484ft ²	30	1.5m		F6 F10 K11	7½hp 7½hp 10hp
DLM V60/15	646ft ²	40	1.5m		K11	10hp

*Integral fans are only fitted to Type F insertables.

Explosion relief — Whenever the dust involved represents an explosion risk, the silo or process equipment concerned should be provided with adequate explosion relief. The filter itself should be specially strengthened.



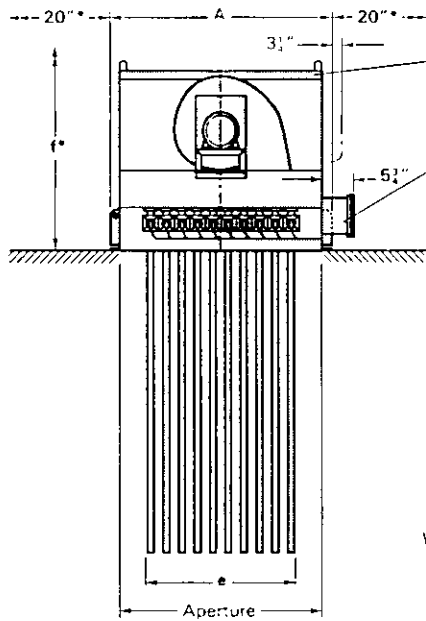
Versatile — Stainless steel Dalmatic insertables handling granulated plastic in West Germany.



Compact — Two Dalmatic DLM-V6/10B insertables installed in a factory producing plastic bottles.



DUST CONTROL EQUIPMENT



FRONT ELEVATION

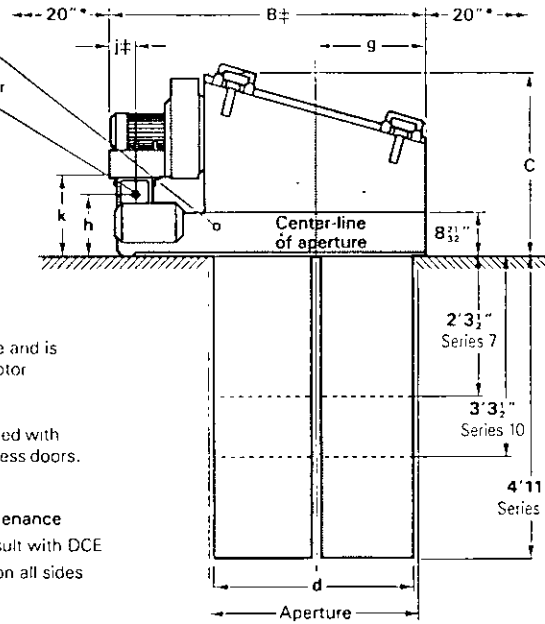
Lift-off access door
Controller (may be fitted on either side)

Seating level

‡ This dimension is approximate and is dependent upon make of motor

NOTE: The DLMV60H is supplied with flat topped header and hinged access doors.

*Nominal clearances for maintenance
Where space is restricted please consult with DCE
Clearance of at least 6" to be left on all sides of the filter elements.



SIDE ELEVATION

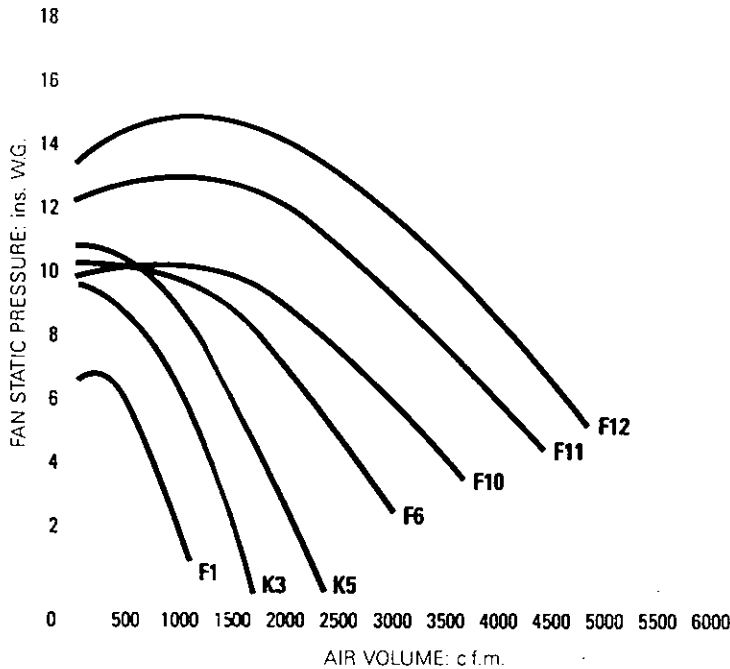
Dalamatic insertable filter with intergral fan

Model DLMV30/15F illustrated, broken lines representing models DLMV14/7F & DLMV20/10F
Suitable for inside and outside locations.

DLM type	Fabric area ft ²	OVERALL DIMENSIONS											Fan	Motor rating	Approx net weight
		A	B‡	C	d	e	f*	g	h	j‡	k				
V4/7F	43	2'3 1/2"	3'7 1/8"	2'8 1/4"	19"	18 1/2"	3'9 1/2"	12 1/4"	11 1/8"	9 1/8"	14 1/2"	F1	1hp	353 lb	
V6/10F	64	2'3 1/2"	3'7 1/8"	2'8 1/4"	19"	18 1/2"	4'9 1/2"	12 1/4"	11 1/8"	9 1/8"	14 1/2"	F1	1hp	375 lb	
V7/7F	75	3'7 1/2"	3'7 1/8"	2'10"	19"	2'8 3/8"	3'9 1/2"	12 1/4"	11 1/8"	9 1/8"	14 1/2"	F1	1hp	496 lb	
			3'7 1/8"									K3	2hp	518 lb	
V8/7F	86	2'3 1/2"	5'4"	2'11 1/2"	3'3 3/8"	18 1/2"	3'9 1/2"	22 3/8"	12 1/8"	6 3/8"	15 1/2"	F1	1hp	463 lb	
			5'4"									K3	2hp	551 lb	
V9/15F	97	2'3 1/2"	3'7 1/8"	2'8 1/4"	19"	18 1/2"	6'5"	12 1/4"	11 1/8"	9 1/8"	14 1/2"	F1	1hp	397 lb	
			3'7 1/8"									K3	2hp	419 lb	
V10/10F	108	3'7 1/2"	3'7 1/8"	2'10"	19"	2'8 3/8"	4'9 1/2"	12 1/4"	11 1/8"	9 1/8"	14 1/2"	F1	1hp	540 lb	
			3'7 1/8"									K3	2hp	562 lb	
V12/10F	129	2'3 1/2"	5'4"	2'11 1/2"	3'3 3/8"	18 1/2"	4'9 1/2"	22 3/8"	12 1/8"	6 3/8"	15 1/2"	K3	2hp	595 lb	
			5'4"									K5	3hp	617 lb	
V14/7F	150	3'7 1/2"	5'4"	2'11 1/2"	3'3 3/8"	2'8 3/8"	3'9 1/2"	22 3/8"	12 1/8"	6 3/8"	15 1/2"	K3	2hp	816 lb	
			5'4"									K5	3hp	838 lb	
V15/15F	161	3'7 1/2"	3'7 1/8"	2'10"	19"	2'8 3/8"	6'5"	12 1/4"	11 1/8"	9 1/8"	14 1/2"	K3	2hp	606 lb	
			3'7 1/8"									K5	3hp	628 lb	
V18/15F	194	2'3 1/2"	5'4"	2'11 1/2"	3'3 3/8"	18 1/2"	6'5"	22 3/8"	12 1/8"	6 3/8"	15 1/2"	K3	2hp	650 lb	
			5'4"									K5	3hp	672 lb	
			5'4"		3'0 1/2"							F6	7 1/2hp	705 lb	
V20/10F	215	3'7 1/2"	5'4"	2'11 1/2"	3'3 3/8"	2'8 3/8"	4'9 1/2"	22 3/8"	12 1/8"	6 3/8"	15 1/2"	K3	2hp	893 lb	
			5'4"									K5	3hp	915 lb	
			5'4"		3'0 1/2"							F6	7 1/2hp	948 lb	
V21/7F	226	3'7 1/2"	7'3 3/8"	3'6"	5'3 1/4"	2'8 3/8"	3'9 1/2"	2'10 1/2"	12 1/8"	6 3/8"	15 1/2"	K3	2hp	1091 lb	
			7'3 3/8"									K5	3hp	1113 lb	
			7'3 3/8"									F6	7 1/2hp	1146 lb	
V30/10F	323	3'7 1/2"	7'3 3/8"	3'6"	5'3 1/4"	2'8 3/8"	4'9 1/2"	2'10 1/2"	12 1/8"	6 3/8"	15 1/2"	K5	3hp	1213 lb	
			7'3 3/8"									F6	7 1/2hp	1246 lb	
			7'7 1/2"						12 1/8"	10 1/2"	15 1/2"	F10	7 1/2hp	1301 lb	
V30/15F	323	3'7 1/2"	5'4"	2'11 1/2"	3'3 3/8"	2'8 3/8"	6'5"	22 3/8"	12 1/8"	6 3/8"	15 1/2"	K5	3hp	1025 lb	
			5'4"									F6	7 1/2hp	1058 lb	
			5'8 1/2"		3'1 1/2"				12 1/8"	10 1/2"	15 1/2"	F10	7 1/2hp	1113 lb	
V45/15F	484	3'7 1/2"	7'3 3/8"	3'6"	5'3 1/4"	2'8 3/8"	6'5"	2'10 1/2"	12 1/8"	6 3/8"	15 1/2"	F6	7 1/2hp	1378 lb	
			7'7 1/2"									F10	7 1/2hp	1433 lb	
			7'7 1/2"						12 1/8"	10 1/2"	15 1/2"	F11	10hp	1444 lb	
V60/15F	646	3'7 1/2"	9'4 1/2"	3'7"	6'11 1/2"	2'8 3/8"	7'3"	3'8 3/8"	12 1/8"	9 1/8"	15 1/2"	F11	10hp	1962 lb	
			9'9 1/2"						12 1/8"	14 1/2"	15 1/2"	F12	15hp	2061 lb	



**DUST CONTROL
EQUIPMENT**



To select the most suitable fan for a given application:

- 1 Determine the air volume flow (c.f.m.) needed to give effective venting and dust control.
- 2 Estimate the pressure or suction (ins. W.G.) in the housing in which the dust collector is inserted.
- 3 Assess the operational pressure drop (ins. W.G.) across the clean side and dirty side of the filtering element — usually between 2" to 4" W.G.
- 4 The sum of 2 and 3 gives the pressure (ins. W.G.) required for fan selection purposes.
- 5 Consult graph for fan performances available.

Fan performance curves

COMPRESSED AIR REQUIREMENTS

Filter type	Working compressed air pressure *	Atmospheric air volume — F.A.D. ^b		Pulse duration
		at 25 sec. intervals ^c		
DLM V4/7, V6/10 and V9/15	65 psig	2.3 cfm	200 millise.	
DLM V7/7, V10/10 and V15/15	65 psig	2.8 cfm	200 millise.	
DLM V8/7, V12/10 and V18/15	90 psig	4.2 cfm	200 millise.	
DLM V14/7 and V20/10 (5 valve)	90 psig	5.0 cfm	200 millise.	
		at 12 sec. intervals ^c		
DLM V20/10 (10 valve)	65 psig	3.6 cfm	60 millise.	
DLM V21/7 and V30/10	75 psig	4.6 cfm	60 millise.	
DLM V30/15	65 psig	5.1 cfm	110 millise.	
DLM V45/15	75 psig	6.6 cfm	110 millise.	
DLM V60/15	90 psig	6.6 cfm	110 millise.	

*Normal operating pressure. ^bRecommended atmospheric air volume of clean, dry compressed air.
^cRecommended initial settings; these may be varied with experience.

ELECTRICAL REQUIREMENTS

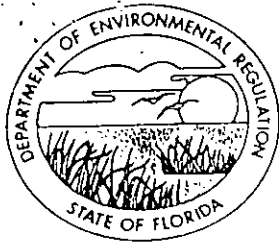
- Filters up to DLM V20/10*:** DS 3- or 5-way controller
- Filters from DLM V20/10* upwards:** DS 10-way controller
- Voltage input:** 110, 200, 220 or 240V. (±10%) A.C. two wire 50-60 Hz (Incremental tappings on transformer)
- Connection:** Line-line or line-neutral
- Fan motor (if fitted):** To suit local voltage

*The DLM V20/10 can be supplied with either DS 5- or 10-way controller

DESIGN LIMITS (standard equipment)

- Temperature range** (alternatives according to type of sealer used): (1) 14°F to 140°F; (2) 14°F to 400°F (not type F)
- Pressure limits:** (a) Types B, W & H: 16" W.G. For positive pressures please refer to DCE;
(b) Type F: as fan performance curves from shut-off to ambient pressure
- Dimension tolerances:** ± 3/16" on main dimensions; ± 1/16" on detail dimensions

APPENDIX D
CURRENT OPERATING PERMIT



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary
620-6100
Dr. Richard Garrity, Deputy Assistant Secretary

February 14, 1990

RECEIVED

FEB 19 1990

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT ISSUANCE

Mr. C. W. Kearney, Jr.
Vice President
Kearney Development Company, Inc.
8621 East Buffalo Avenue
Tampa, Florida 33610

DER File No.: A029-173523
County: Hillsborough

Enclosed is Permit Number A029-173523 to operate a portable soil cement plant, issued pursuant to Section 403.087, Florida Statutes.

A person whose substantial interests are affected by this permit 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 32399-2400, within fourteen (14) days of receipt of this permit. 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 subsequent interests are affected by the Department's action or proposed action;

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

Mr. C. W. Kearney, Jr.
Tampa, Florida 33610

Page Two

(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 permit. 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 receipt of this notice, in the Office of General Counsel at the above address of the Department. Failure to petition within the allotted 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.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

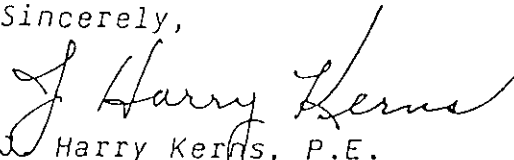
When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of 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 the Final Order is filed with the Clerk of the Department.

Mr. C. W. Kearney, Jr.
Tampa, Florida 33610

Page Three

Executed in Tampa, Florida

Sincerely,


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

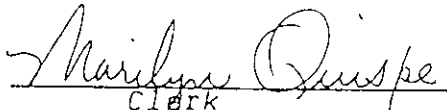
JHK/EJS/bb

cc: Environmental Protection Commission
of Hillsborough County
Joseph L. Tessitore, P.E.

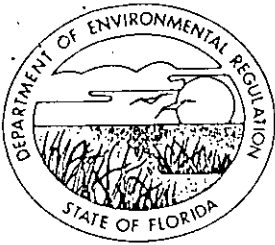
CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on FEB 14 1990 to the listed persons.

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to
§120.52(10), Florida Statutes, with
the designated Department Clerk,
receipt of which is hereby
acknowledged.


Clerk

FEB 14 1990
Date



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

Dr. Richard Garrity, Deputy Assistant Secretary

PERMITTEE:

Kearney Development Company, Inc.
8621 East Buffalo Avenue
Tampa, FL 33610

PERMIT/CERTIFICATION

Permit No: AO29-173523
County: Hillsborough
Expiration Date: 03/01/95
Project: Portable Soil Cement
Plant

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 & 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 in part hereof and specifically described as follows:

For the operation of a soil cement plant which includes a 47 ton cement silo equipped with a DCE Volkes Series DLMV 10/10 baghouse. The baghouse controls pneumatic loading of the silo.

Location: 8621 East Buffalo Avenue, Tampa
May operate in the following counties: Levy, Marion, Citrus, Sumter, Hernando, Pasco, Pinellas, Hillsborough, Polk, Manatee, Hardee, Desoto, Highlands, Sarasota

UTM: 17-368.7 E 3094.8 N NEDS NO: 0380 Point ID: 01

Replaces Permit No.: AC29-156993

RECEIVED

FEB 19 1990

PERMITTEE:
Kearney Development
Company, Inc.

Permit/Certification No.: A029-173523
Project: Portable Soil Cement Plant

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Emission of particulate matter from the cement silo baghouse shall not exceed 4.9 pounds per hour and 1.43 tons per year. There are no emissions from the soil cement manufacturing process. Because particulate matter emissions are less than 5 pound per hour and 15 tons per year, the facility is exempt from the provisions of Subsection 17-2.650(2)(b)1., F.A.C.
3. To ensure the emission limits in Specific Condition No. 2 are met, the loading time of the cement silo shall not exceed 2.25 hours per day, 5 days per week, 52 weeks per year. The maximum transfer of cement to the storage silo shall not exceed 78.0 tons per day.
4. Visible emissions from the silo shall not exceed 5 percent opacity pursuant to Subsection 17-2.600(14)(a), F.A.C. Proof of compliance with this limitation will be accepted as compliance with the particulate limitation of Specific Condition No. 2.
5. Test the baghouse for visible emissions at intervals of four months from October 23, 1989. The Method #9 test interval on this source shall be thirty (30) minutes. Two copies of the test data shall be submitted to the Air Section of the Environmental Protection Commission of Hillsborough County within 45 days of testing.
6. Should the Department have reason to believe the particulate emission standard is not being met, the Department may require that compliance with the particulate emission standards be demonstrated by testing in accordance with Section 17-2.700, F.A.C.
7. Testing of emissions must be accomplished at approximately the maximum process weight rate of 34.67 tons/hour of cement loaded into the silo. The actual loading rate shall be specified in each test result. Failure to include the actual process or production rate in the results may invalidate the test [Section 403.161(1)(c), Florida Statutes].
8. The Department's Southwest District office and, if applicable, the Department's approved local program office, shall be notified in writing 15 days in advance of any compliance test to be conducted on this source.

PERMITTEE:
Kearney Development
Company, Inc.

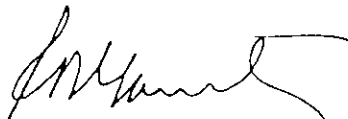
Permit/Certification No.: A029-173523
Project: Portable Soil Cement Plant

SPECIFIC CONDITIONS: (continued)

9. A written log of daily cement transfer must be kept and available for inspection indicating the daily transfer of cement to the silo.
 10. At least 10 days prior to relocating the unit, the permittee shall notify the air program manager in the District Office and approved local program that the unit is being relocated. Each notification shall include a site plan which shows all industrial, commercial, and residential establishments located within a one kilometer radius of the new location.
 11. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Section 17-2.610(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling.
 12. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information pursuant to Section 403.061(13), Florida Statutes:
 - (A) Annual amount of materials and/or fuels utilized.
 - (B) Annual emissions (note calculation basis).
 - (C) Any changes in the information contained in the permit application.
- Duplicate copies of all reports shall be submitted to the Environmental Protection Commission of Hillsborough County.
13. Four applications to renew this operating permit shall be submitted to the Environmental Protection Commission of Hillsborough County 60 days prior to the expiration date of this permit.

Issued this 13 day of Feb, 1980.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION



Richard D. Garrity, Ph.D.
Deputy Assistant Secretary

GENERAL CONDITIONS

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and are binding and enforceable pursuant to the authority of Section 403.141, 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 403.712(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 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 any order from the Department.
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 credential or other documents as maybe required by law and at reasonable times, access to the premises, where the permitted activity is located or conducted:

GENERAL CONDITIONS (con't):

7. (con't):

- 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 (17-6.130) with the following information:

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

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

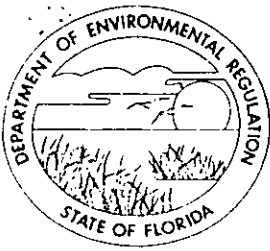
9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the Department, may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Section 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 Procedures 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, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

GENERAL CONDITIONS (con't):

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)
 - () Certification of Compliance with State Water Quality Standards (Section 401. PL 92-500)
 - () 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.
 - b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. 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 measurement;
 - the person responsible for performing the sampling or measurements;
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
15. When requested by the department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.



Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary
Alex Alexander, Deputy Assistant Secretary

NOTICE OF PERMIT

RECEIVED

OCT 10 1990

KEARNEY DEVELOPMENT
COMPANY, INC.

Kearney Development Co., Inc.
8621 East Buffalo Avenue
Tampa, Florida 33610

Attention: C. W. Kearney, Jr., Vice President

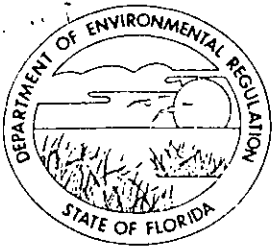
Hillsborough County - AP
Portable Soil Cement Plant

Dear Mr. Kearney:

Enclosed is Permit Number AO29-173523, dated 10-9-90, to change the permit conditions, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing), unless the right to petition has been waived. The petition must conform to the requirements of Chapters 17-103 F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within that time constitutes a waiver of any right such person has to an administrative determination pursuant to 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.



Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary
Alex Alexander, Deputy Assistant Secretary

October 8, 1990

Kearney Development Co., Inc.
8621 East Buffalo Avenue
Tampa, Florida 33610

Attention: C. W. Kearney, Jr.
Vice President

Hillsborough County - AP
Portable Soil Cement Plant
Permit No. A029-173523
Change of Conditions

Dear Mr. Kearney:

We are in receipt of your request for a change of the permit conditions. The conditions are changed as follows:

<u>CONDITION</u>	<u>FROM</u>	<u>TO</u>
Permit Page No. 1, Location	ADD	Brevard, Indian River, Lake, Marion, Orange, Osceola, Seminole and Volusia Counties

All other conditions remain the same.

This letter must be attached to your permit and becomes a part of that permit.

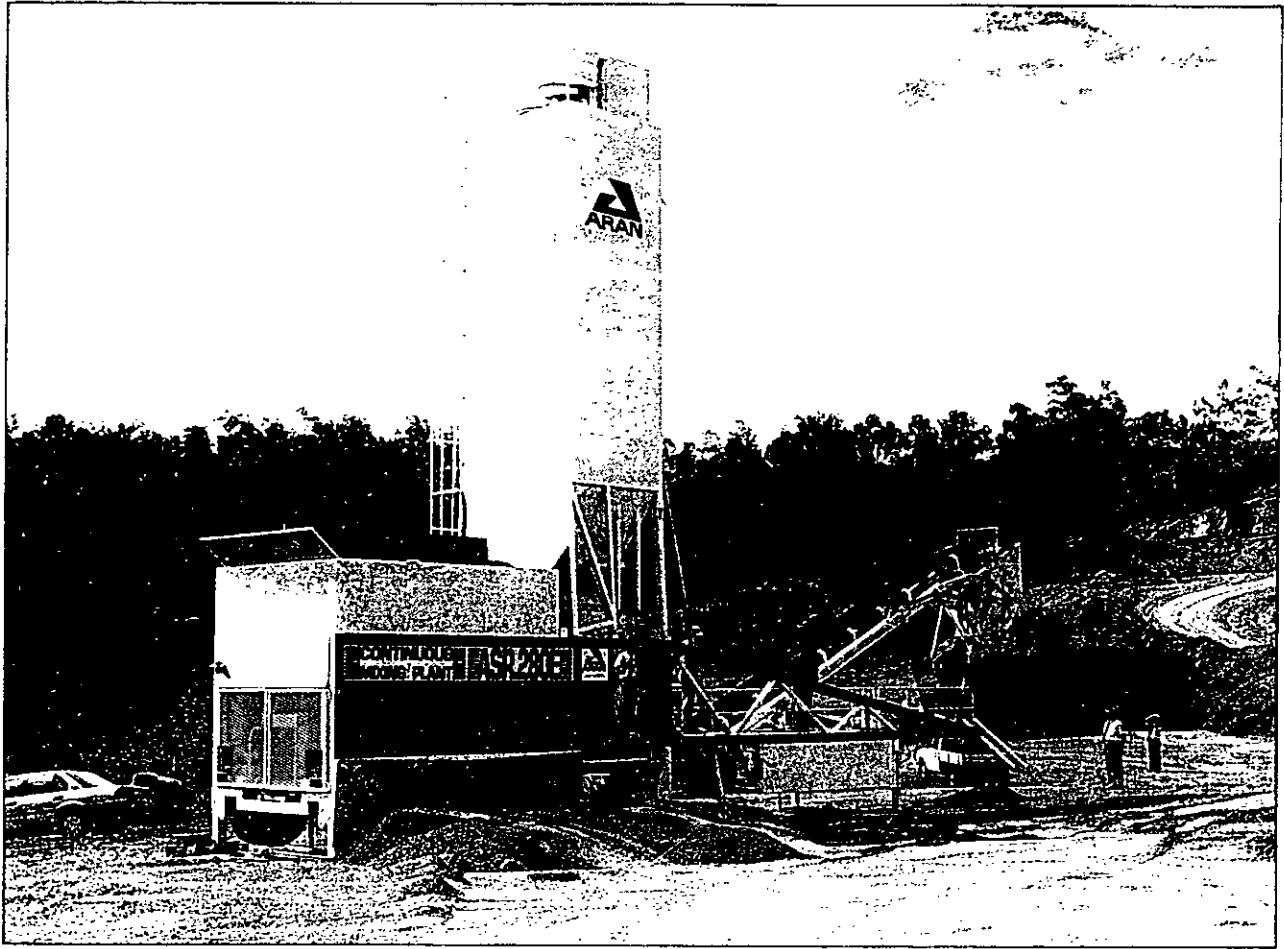
Sincerely,

Alexander
A. Alexander, P.E.
Deputy Assistant Secretary

ADJ
AA:jtj

APPENDIX E

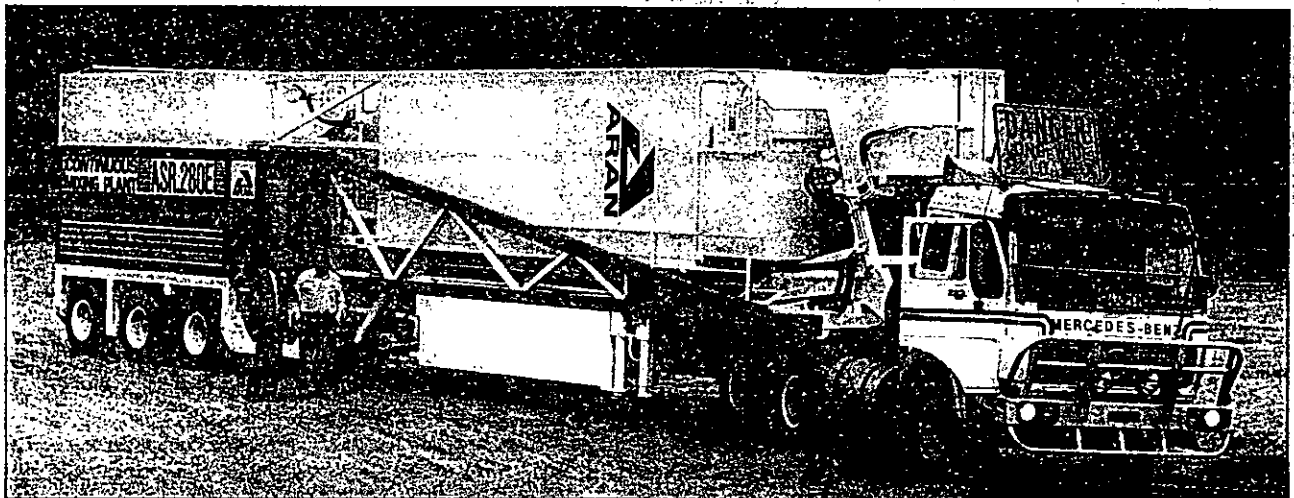
ARAN PORTABLE PUGMILL INFORMATION



CONTINUOUS
MIXING PLANT



NO ONE DOES IT BETTER



ARAN ASR SERIES CONTINUOUS MIXING TECHNOLOGY

New Standards of Performance, Accuracy and Convenience

Aran has no peers when it comes to continuous mixing technology for a diverse range of construction materials. Designing and building the best mobile continuous mixers is our business, not a sideline. Logical machine layout leads to uniform, accurate product irrespective of whether machines mix non-stop, or on a truck by truck basis.

The experts have come to Aran for introduction of innovative new materials such as roller compacted concrete (RCC) for dams and pavements. No-one does it better.

Mix crushed stone aggregate, sand, ridge gravels, soil, loam, waste sludge, mineral ores;

With cement, lime, flyash, water, admixture, emulsified bitumen, chemicals, chopped fibre.

SUPERIOR PACKAGING Long recognised as leaders in the use of space, ARAN ASR plants optimise ingredient storage capacity with performance and ease of operation.

SELF CONTAINED Integral diesel engines and full hydrostatic drives. No need for generators, cranes, or even concrete foundations.

RAPID RELOCATION Unmatched relocation convenience. ARAN machines travel at highway speeds and can be set up in a few hours. Machine levelling, silo elevation and conveyor positioning are all hydraulic.

CONSISTENT ACCURACY ARAN machines are respected for their accurate, consistent and repeatable feed metering. Careful attention to function has produced innovative but simple feeders. ARAN deals with accuracy at the point of metering rather than by employing unnecessary and complicated electronic error compensation controls. Construction Authorities have adjusted their specifications to take advantage of the excellent uniformity offered by ARAN's ABFC Series cement metering feeders.

INTENSE MIXING ARAN high intensity mixers have more blades and run faster to mix thoroughly and quickly. Compare the power available for each machine size. Even with more difficult materials, ARAN machines are out in front with mix capability.

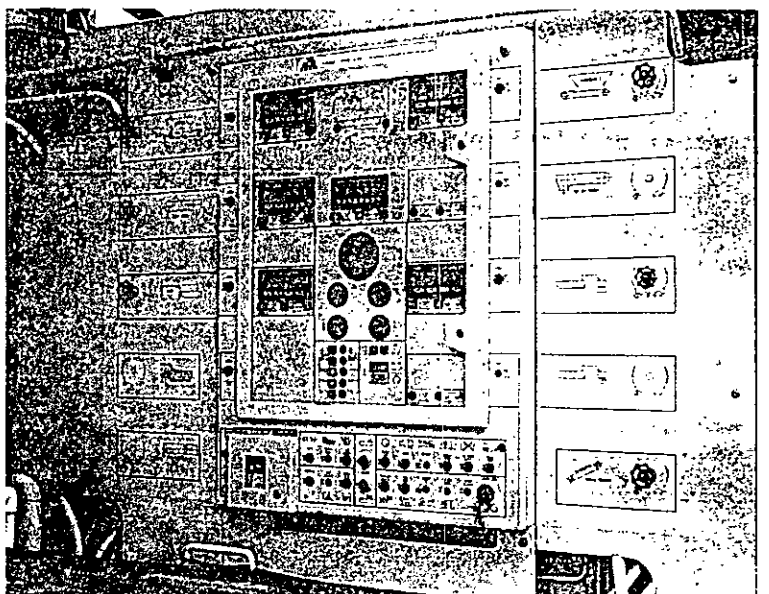
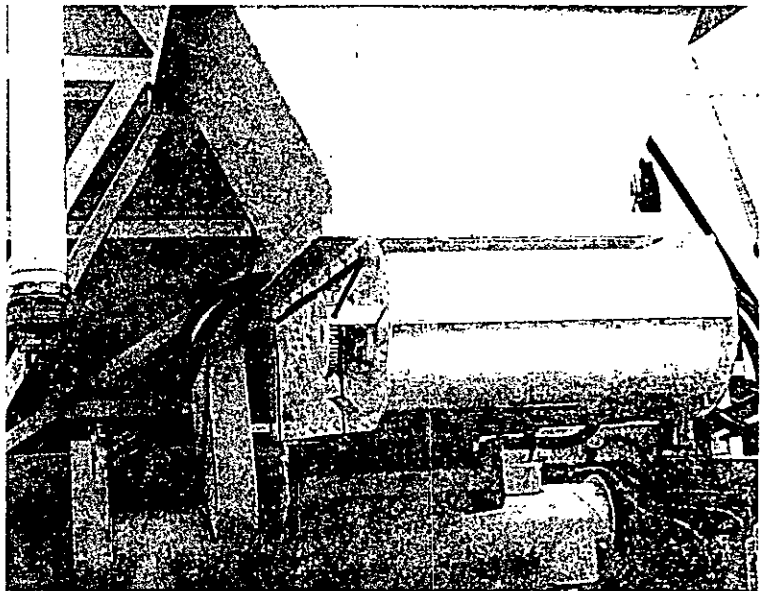
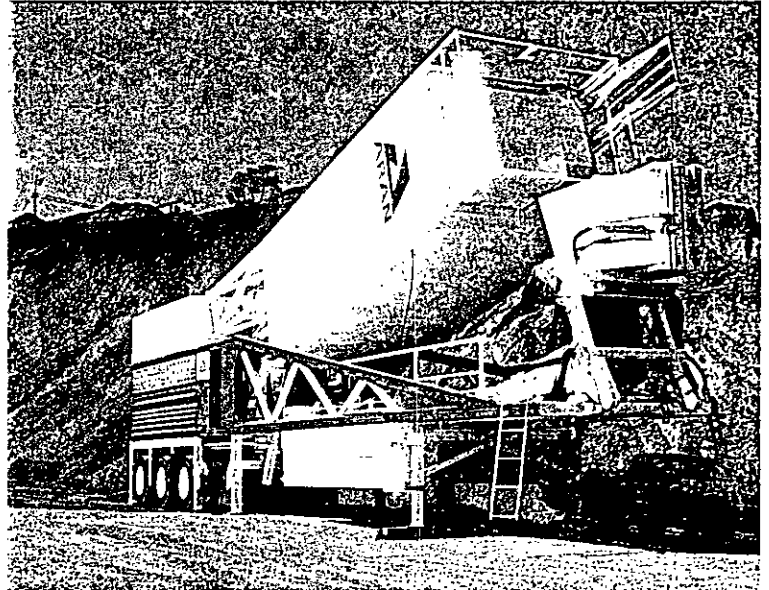
MODERN BUT NOT COMPLEX Mobile machines are used in very remote locations. Component selection is based on service ability and reliability. ARAN ASR Series machines are an elegant expression of functional simplicity.

CONTROL FEATURES Because feed control on ARAN plants is inherently very stable, ingredient proportions are manually set, and monitored with sensitive but robust digital instruments. Rate and cumulative totals are indicated. Alarms and auto-shut down can operate from pre-set feed tolerances. Mixed product weighing and moisture monitoring available. The clear and orderly control panel keeps the operator informed.

OPTION PROGRAMME The ARAN specialist range of mixing machines allows each owner to tailor his machine to actual needs.

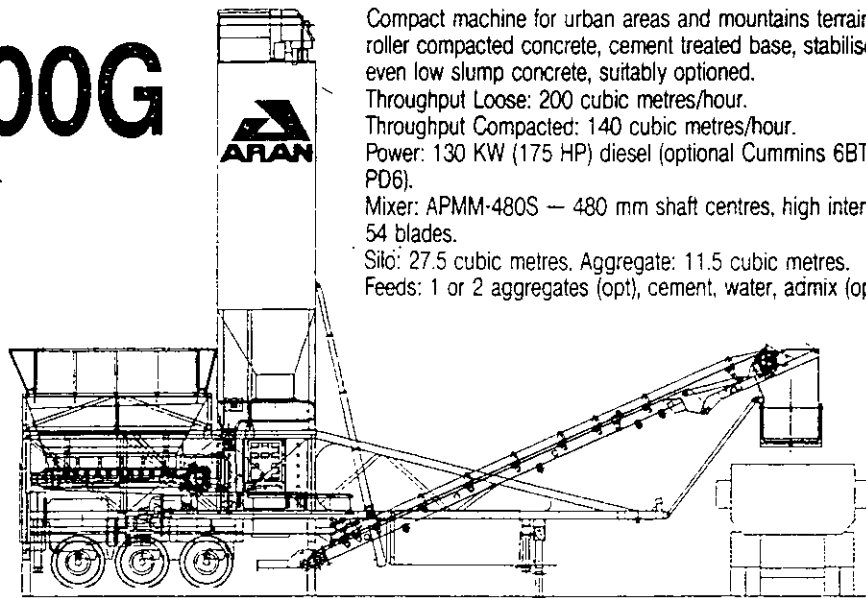
Over fifty optional features cater for different numbers of ingredient materials, more extensive monitoring, differing environmental requirements, and even operator comfort.

QUALITY WHERE IT COUNTS ARAN machines are built to a formulated quality management programme using first class internationally available components. Premium two pack epoxy/urethane paint systems keep ARAN plants looking young.



ASR-200G

Length overall travelling: 12.534 m.
Height overall travelling: 3.8 m.
Width overall travelling: 2.95 m.



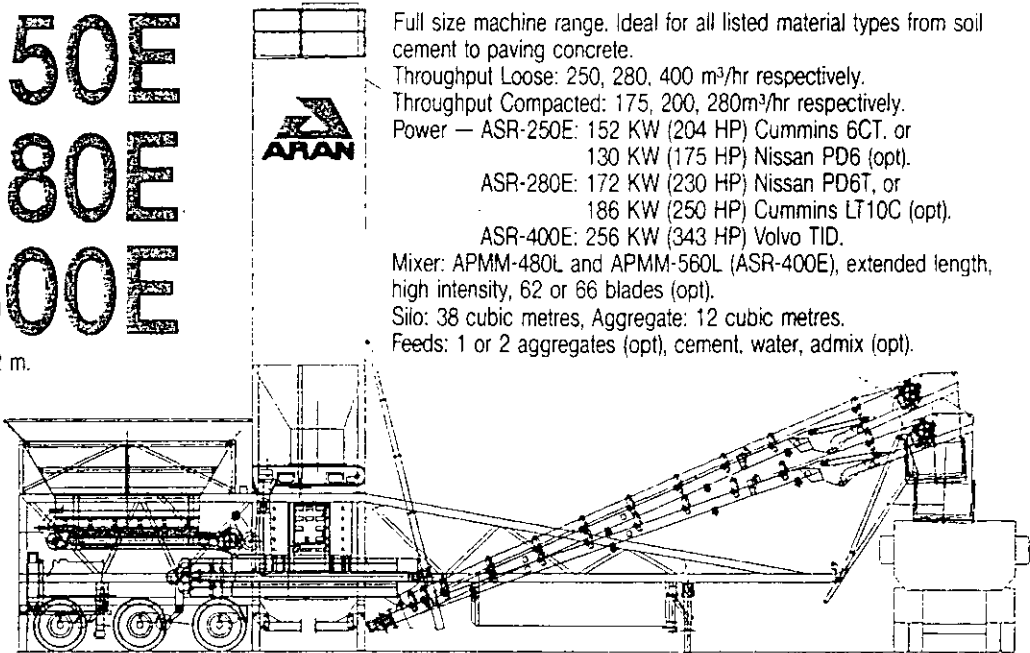
Compact machine for urban areas and mountains terrain. Ideal for roller compacted concrete, cement treated base, stabilised base and even low slump concrete, suitably optioned.
Throughput Loose: 200 cubic metres/hour.
Throughput Compacted: 140 cubic metres/hour.
Power: 130 KW (175 HP) diesel (optional Cummins 6BTA/Nissan PD6).
Mixer: APMM-480S — 480 mm shaft centres, high intensity compact, 54 blades.
Silo: 27.5 cubic metres. Aggregate: 11.5 cubic metres.
Feeds: 1 or 2 aggregates (opt), cement, water, admix (opt).

ASR-250E

ASR-280E

ASR-400E

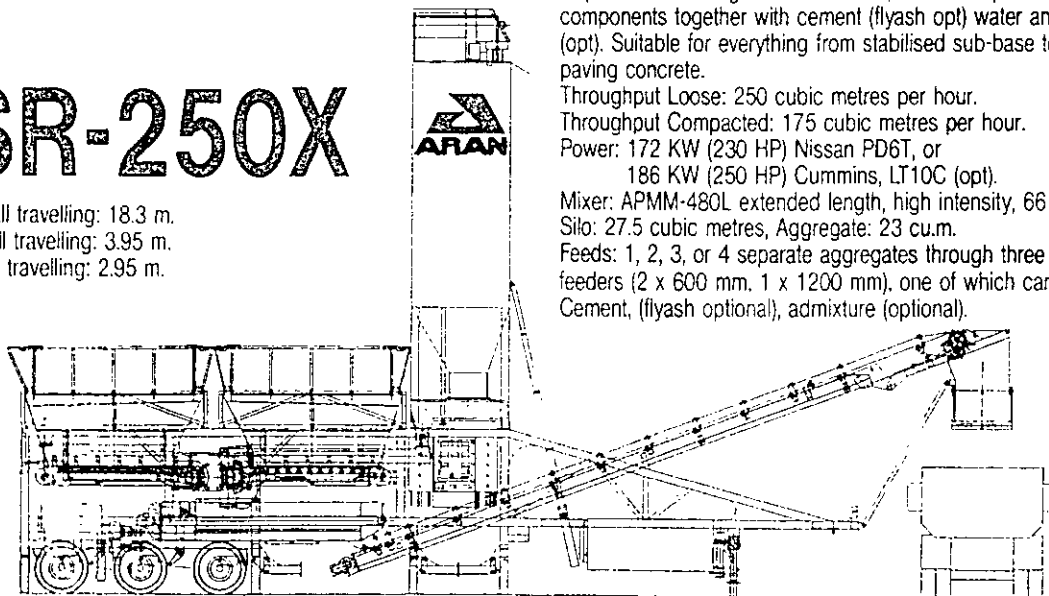
Length overall travelling: 17.122 m.
Height overall travelling: 4.1 m.
Width overall travelling: 3.05 m.



Full size machine range. Ideal for all listed material types from soil cement to paving concrete.
Throughput Loose: 250, 280, 400 m³/hr respectively.
Throughput Compacted: 175, 200, 280m³/hr respectively.
Power — ASR-250E: 152 KW (204 HP) Cummins 6CT, or 130 KW (175 HP) Nissan PD6 (opt).
ASR-280E: 172 KW (230 HP) Nissan PD6T, or 186 KW (250 HP) Cummins LT10C (opt).
ASR-400E: 256 KW (343 HP) Volvo T1D.
Mixer: APMM-480L and APMM-560L (ASR-400E), extended length, high intensity, 62 or 66 blades (opt).
Silo: 38 cubic metres, Aggregate: 12 cubic metres.
Feeds: 1 or 2 aggregates (opt), cement, water, admix (opt).

ASR-250X

Length overall travelling: 18.3 m.
Height overall travelling: 3.95 m.
Width overall travelling: 2.95 m.



Capable of blending materials with up to four separate aggregate/sand components together with cement (flyash opt) water and admixture (opt). Suitable for everything from stabilised sub-base to high class paving concrete.
Throughput Loose: 250 cubic metres per hour.
Throughput Compacted: 175 cubic metres per hour.
Power: 172 KW (230 HP) Nissan PD6T, or 186 KW (250 HP) Cummins, LT10C (opt).
Mixer: APMM-480L extended length, high intensity, 66 blades.
Silo: 27.5 cubic metres, Aggregate: 23 cu.m.
Feeds: 1, 2, 3, or 4 separate aggregates through three independent feeders (2 x 600 mm, 1 x 1200 mm), one of which can be divided.
Cement, (flyash optional), admixture (optional).

The power demand of twin shaft continuous mixers varies greatly with material characteristics. Fine local materials with significant clay content require up to three times as much power as resilient crushed rock. ARAN machines are rated for average road base construction materials. Capacities in excess of those quoted may be achieved with some materials and reduced capacities with others. Lesser powered mixers from other sources usually suffer severe throughput loss with fine materials.

VERSATILE

A True Multi-Material Mixing System

Because of their mobility and wide international use, ARAN machines encounter many different construction materials. From experience, ARAN designers have considered the unique needs of each different material in the latest generation of ASR Series mixing plants.

It is comforting to know that ARAN machines have already excelled on thousands of projects, each with material, climate and specification differences.

When new material technologies such as roller compacted concrete, have been introduced, world renowned experts have recognised ARAN as the superior machine able to deliver the right results from the beginning.

With the correct options, ASR Series machines can mix:

- Mass Concrete for Foundations
- Paving Concrete
- Porous Concrete
- Roller Compacted Concrete Pavement
- Roller Compacted Concrete for dams
- Cement Treated Base
- Soil Cement
- Lime Stabilised Base
- Fibre Reinforced Soil
- Toxic Waste for Solidification
- Lime Precoated Aggregates
- Bitumen Precoated Aggregates
- Bitumen Emulsion
- Cold Mix
- Gold Bearing Ores for Leaching

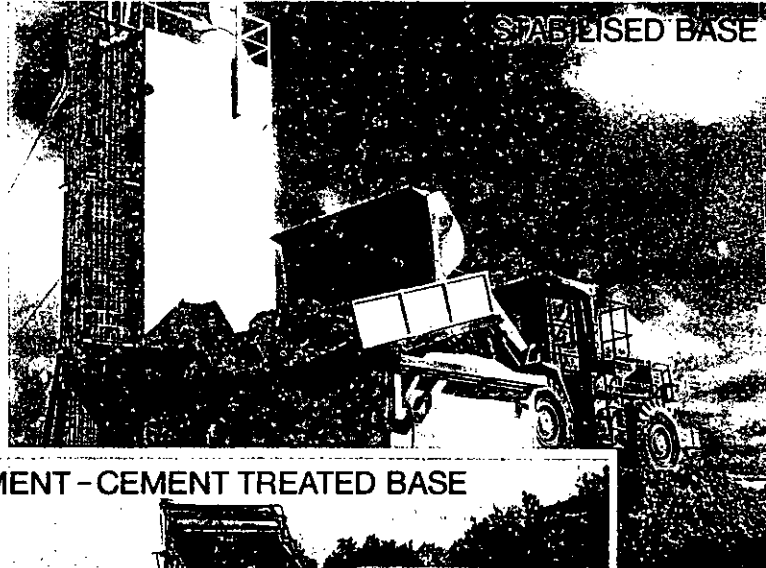
PAVING CONCRETE



ROLLER COMPACTED CONCRETE

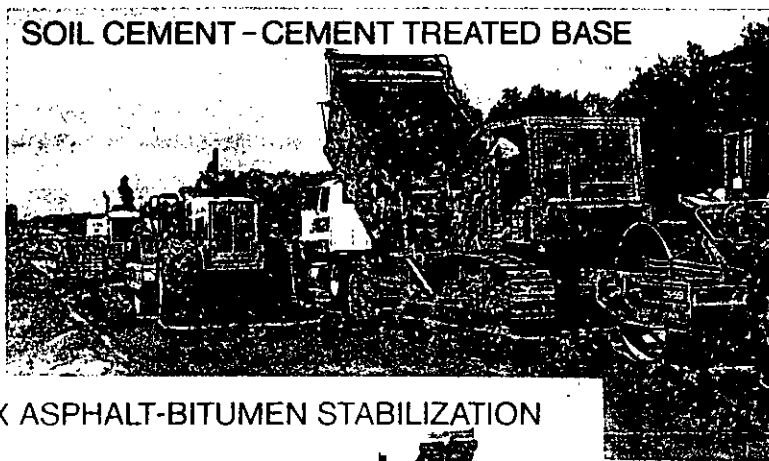


STABILISED BASE

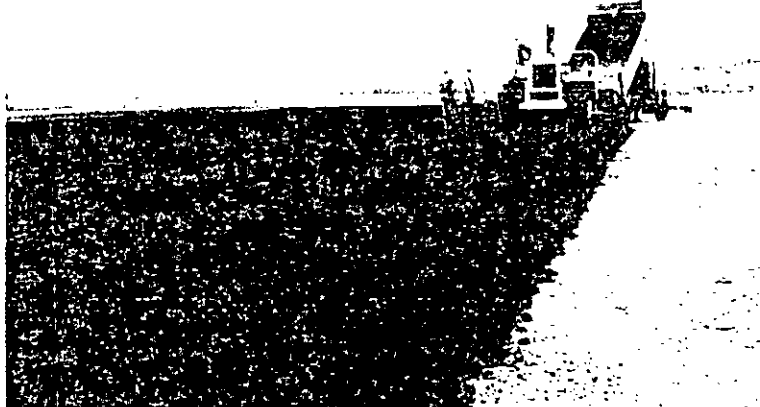


The design, copyright and patents relating to ARAN plant and equipment are the property of ARAN Pty Ltd, Engineers and Industrial Designers. Specifications are subject to change without notice.
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ARAN Pty. Ltd.

SOIL CEMENT - CEMENT TREATED BASE



COLD MIX ASPHALT-BITUMEN STABILIZATION



KEARNEY DEVELOPMENT CO., INC.

SITE DEVELOPMENT SINCE 1956

GENERAL CONTRACTOR	CGC016920
UNDERGROUND UTILITY	CUC029824
FIRE PROTECTION V	762000000190

8621 EAST BUFFALO AVENUE
TAMPA, FLORIDA 33610

ALAN PAYNE	TAMPA	813-621-0855
MANAGER	FAX #	813-620-0001
PUGMILL OPERATIONS	HOME	813-654-0168

APPENDIX F
EPA METHOD 9 TEST RESULTS

KEARNEY
DEVELOPMENT CO., INC.

8621 M. L. KING BLVD. E. • TAMPA, FLORIDA 33610

TAMPA (813) 621-0855
PINELLAS (813) 443-3609
ORLANDO (407) 856-4076
FAX (813) 620-0001

Underground Utilities ☆ Site Development ☆ Since 1956

September 20, 1994

Mr. Leroy Shelton
Environmental Protection Commission
of Hillsborough County
1900 9th Avenue
Tampa, FL 33605

RE: KEARNEY DEVELOPMENT CO., INC. PERMIT NO. A029-173523
METHOD 9 COMPLIANCE TEST

Dear Mr. Shelton:

Please find enclosed the results of the subject EPA Method 9 compliance testing conducted on 9/20/94. Note that the opacity was 0% and this demonstrates compliance with the maximum permitted allowable of 5%.

Should you have any questions, please do not hesitate to call me.

Respectfully,

KEARNEY DEVELOPMENT CO., INC.



Alan G. Payne
Manager-Pugmill Operations

AGP/cc

Enclosure

cc: Thomas Ellison, Jr., DEP
Bing Kearney, KDC
Bryan Kearney, KDC

Underground Utilities ☆ Site Development ☆ Since 1956

PROCESS DATA SHEET

DATE September 20, 1994 TESTING TIME FROM: Start 10:00 am
Finish 10:49 am

SOURCE INFORMATION

COMPANY NAME: Kearney Development Co., Inc.

ADDRESS: 8621 M.L. King Blvd., E., Tampa, FL 33610

SOURCE IDENTIFICATION: Permit No. A029-173523 Portable Soil Cement Plant

SOURCE LOCATION (IF DIFFERENT FROM ABOVE):

3741 126th Avenue, N., Clearwater, FL 34622

STATEMENT OF PROCESS WEIGHT

INPUT PROCESS RATE DURING TESTING TIME 33.37 tons/hr

PRODUCTION RATE DURING TESTING TIME N/A


Assumptions

Cement dust product = 27.25 tons
Tanker unloading time = 49 minutes
Pneumatic pressure on tanker during silo loading = 11 psi

Calculations

$(27.25 \text{ tons} \div 49 \text{ minutes}) (60 \text{ min/hr}) = 33.37 \text{ tons/hr}$

I certify that the above statement is true to the best of my knowledge and belief.



Alan Payne

Production Manager
Title

9/21/94
Date Signed

VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One) Method 9 203A 2038 Other: _____

Company Name Kearney Development Co. Inc
 Facility Name Same As Above
 Street Address 3741 126th Avenue North
 City Clearwater State FL Zip 34622

Process Portable Pugmill Unit # 700 Operating Mode Silo Recharge
 Control Equipment Baghouse - Full Capacity Operating Mode Automatic

Describe Emission Point Square hatch on top of silo.
Round pop off valve.
 Height of Emiss. Pt. Start 35 ft End 35 ft Height of Emiss. Pt. Rel. to Observer Start 30 ft End 30 ft
 Distance to Emiss. Pt. Start 140 ft End 140 ft Direction to Emiss. Pt. (Degrees) Start 260° End 260°

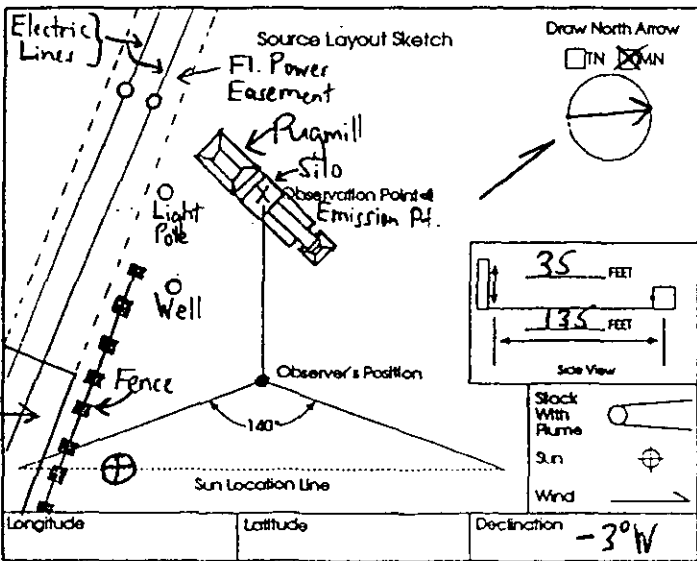
Vertical Angle to Obs. Pt. Start 14.5° End 14.5° Direction to Obs. Pt. (Degrees) Start 260° End 260°
 Distance and Direction to Observation Point from Emission Point Start Same Point End Same Point

Describe Emissions Start None End None
 Emission Color Start N/A End N/A Water Droplet Plume Attached Detached None

Describe Plume Background Start Light Gray Sky End Same
 Background Color Start Gray End Gray Sky Conditions Start Overcast End Overcast
 Wind Speed Start ~4-7mph End ~4-7mph Wind Direction Start 140° End 140°
 Ambient Temp. Start 75°F End 79°F Wet Bulb Temp. 71°F RH Percent 76%

Form Number 00009 Page 1 of 2
 Continued on VEO Form Number 00010

Sec Min	Observation Date <u>9/20/94</u> Time Zone <u>EDT</u> Start Time <u>10:00am</u> End Time <u>10:30am</u>				Comments
	0	15	30	45	
1	0	0	0	0	
2	0	0	0	0	
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4	0	0	0	0	
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12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
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26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	



Additional Information
27.25 Tons cement powder. Pneumatic Unloading
Pressure = 11psi. Opacity Average = 0%.

Observer's Name (Print) Alan G. Payne
 Observer's Signature [Signature] Date 9/20/94
 Organization Kearney Development Company Inc
 Certified By Eastern Technical Assoc. Date 8/30/94

VISIBLE EMISSION OBSERVATION FORM 1

Form Number	00010	Page	2	of	2
Continued on VEO Form Number					

Method Used (Circle One)
 Method 9 203A 203B Other: _____

Company Name _____
 Facility Name _____
 Street Address _____
 City _____ State _____ Zip _____

Process _____ Unit # _____ Operating Mode _____
 Control Equipment _____ Operating Mode _____

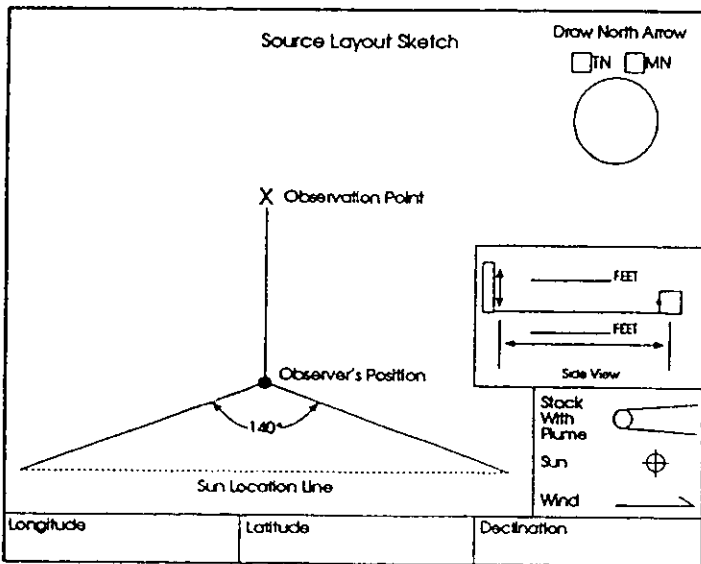
Describe Emission Point _____

Height of Emiss. Pt. _____ Height of Emiss. Pt. Rel. to Observer _____
 Start _____ End _____ Start _____ End _____
 Distance to Emiss. Pt. _____ Direction to Emiss. Pt. (Degrees) _____
 Start _____ End _____ Start _____ End _____

Vertical Angle to Obs. Pt. _____ Direction to Obs. Pt. (Degrees) _____
 Start _____ End _____ Start _____ End _____
 Distance and Direction to Observation Point from Emission Point _____
 Start _____ End _____

Describe Emissions _____
 Start _____ End _____
 Emission Color _____ Water Droplet Plume _____
 Start _____ End _____ Attached Detached None

Describe Plume Background _____
 Start _____ End _____
 Background Color _____ Sky Conditions _____
 Start _____ End _____ Start _____ End _____
 Wind Speed _____ Wind Direction _____
 Start _____ End _____ Start _____ End _____
 Ambient temp. _____ Wet Bulb Temp. _____ RH Percent _____
 Start _____ End _____



Sec Min	Observation Date				Time Zone	Start Time	End Time	Comments
	0	15	30	45	EDT	10:30am	10:49am	
1	0	0	0	0				
2	0	0	0	0				
3	0	0	0	0				
4	0	0	0	0				
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7	0	0	0	0				
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16	0	0	0	0				
17	0	0	0	0				
18	0	0	0	0				
19	0	0	0	0				
20								
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23								
24								
25								
26								
27								
28								
29								
30								

Observer's Name (Print) _____
 Observer's Signature _____ Date _____
 Organization _____
 Certified by _____ Date _____

Additional Information _____

KEARNEY

DEVELOPMENT CO., INC.

8621 EAST BUFFALO AVENUE • TAMPA, FLORIDA 33610

TAMPA (813) 621-0855
PINELLAS (813) 443-3609
ORLANDO (407) 856-4076
FLA. WATS (800) 330-5324
FAX (813) 620-0001

Underground Utilities

☆

Site Development

☆

Since 1956

January 18, 1993

Mr. ~~Darrell~~ Graziani
Hillsborough County
Environmental Protection Commission
1410 N. 21st Street
Tampa, Florida 33605

RE: KEARNEY DEVELOPMENT CO., INC. PERMIT #A029-173523
Guisando de Avila, Tampa, FL 33613
Compliance Testing
Hillsborough County, Florida

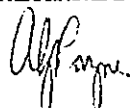
Dear Mr. Graziani:

Please find enclosed the results of the subject EPA Method 9 compliance testing conducted on January 18, 1993. Note that the opacity was 0% and this demonstrates compliance with the maximum permitted allowable of 5%.

Should you have any questions, please do not hesitate to call me.

Respectfully,

KEARNEY DEVELOPMENT CO., INC.


Alan G. Payne
Manager-Pugmill Operations

AGP/cc

Enclosure

cc: Bing Kearney, KDC
ORANGE COUNTY EPC
CROSS/TESSITORE

Underground Utilities

☆

Site Development

☆

Since 1956

PROCESS DATA SHEET

DATE January 18, 1993 TESTING TIME FROM: Start 8:01 am
Finish 8:50 am

SOURCE INFORMATION

COMPANY NAME: Kearney Development Co., Inc.

ADDRESS: 8621 E. Buffalo Avenue, Tampa, FL 33610

SOURCE IDENTIFICATION: Permit No. A029-173523 Portable Soil Cement Plant

SOURCE LOCATION (IF DIFFERENT FROM ABOVE):

Guisando de Avila, Tampa, FL 33613

STATEMENT OF PROCESS WEIGHT

INPUT PROCESS RATE DURING TESTING TIME 33.67 tons/hr

PRODUCTION RATE DURING TESTING TIME N/A

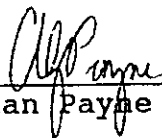
Assumptions

Cement dust product = 27.50 tons
Tanker unloading time = 49 minutes
Pneumatic pressure on tanker during silo loading = 8 to 10 psi

Calculations

$(27.50 \text{ ton} \div 49 \text{ minutes}) (60 \text{ min/hr}) = 33.67 \text{ tons/hr}$

I certify that the above statement is true to the best of my knowledge and belief.



Alan Payne

Production Manager
Title

1/19/93
Date Signed

VISIBLE EMISSION OBSERVATION FORM

No. 00007

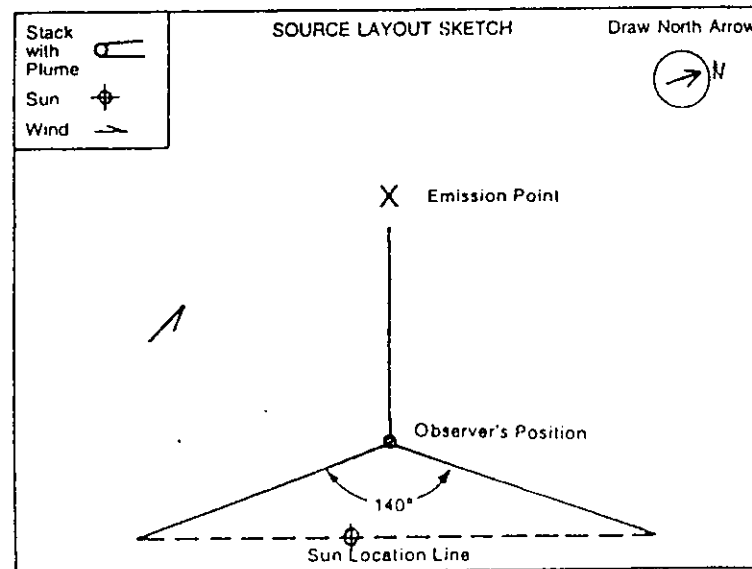
COMPANY NAME *Kearney Development Co. Inc.*
 STREET ADDRESS *Guisando de Arilla*
Arilla
 CITY *Tampa* STATE *FL* ZIP *33613*
 PHONE (KEY CONTACT) *(813) 621-0855* SOURCE ID NUMBER *A029-173523*

PROCESS EQUIPMENT *Soil-Cement Mixing Plant* OPERATING MODE *Off*
 CONTROL EQUIPMENT *DCE Volkes Dust Collector* OPERATING MODE *On*

DESCRIBE EMISSION POINT
Rectangular Hatch on top of silo.
Confined
 HEIGHT ABOVE GROUND LEVEL *35 ft* HEIGHT RELATIVE TO OBSERVER
 Start *40 ft* End *40 ft*
 DISTANCE FROM OBSERVER *75 ft* DIRECTION FROM OBSERVER
 Start *NW* End *NW*

DESCRIBE EMISSIONS
 Start *N/A* End *N/A*
 EMISSION COLOR Start *N/A* End *N/A* IF WATER DROPLET PLUME
 Attached Detached
 POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED
 Start *N/A* End *N/A*

DESCRIBE PLUME BACKGROUND
 Start *Gray Sky* End *Gray Sky*
 BACKGROUND COLOR Start *Gray* End *Gray* SKY CONDITIONS
 Start *Overcast* End *Overcast*
 WIND SPEED Start *5 mph* End *5 mph* WIND DIRECTION
 Start *SE* End *SE*
 AMBIENT TEMP Start *59°* End *60°* WET BULB TEMP *-* RH, percent *-*



ADDITIONAL INFORMATION
27-50 Tons Cement Powder. Pneumatic Unloading
Pressure = 8-10 psi. Opacity Average = 0%

OBSERVATION DATE		START TIME		END TIME	COMMENTS
1/18/93		8:01 am		8:50 am	
SEC	0	15	30	45	
MIN					
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
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27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

OBSERVER'S NAME (PRINT) *Alan G. Payne*
 OBSERVER'S SIGNATURE *Alan G. Payne* DATE *1/18/93*
 ORGANIZATION *Kearney Development Company Inc.*
 CERTIFIED BY *Eastern Technical Associates* DATE *8/25/92*
 CONTINUED ON VEO FORM NUMBER *00005*

KEARNEY

DEVELOPMENT CO., INC.

8621 EAST BUFFALO AVENUE • TAMPA, FLORIDA 33610

TAMPA (813) 621-0855
PINELLAS (813) 443-3609
ORLANDO (407) 856-4076
FLA. WATS (800) 330-5324
FAX (813) 620-0001

Underground Utilities ☆ Site Development ☆ Since 1956

February 6, 1992

Mr. Darrell Graziani
Hillsborough County
Environmental Protection Commission
1410 N. 21st Street
Tampa, Florida 33605

RE: KEARNEY DEVELOPMENT CO., INC. PERMIT #A029-173523
16002 Bruce B. Downs Blvd., Tampa, FL
Compliance Testing
Hillsborough County, Florida

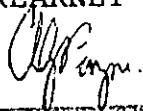
Dear Mr. Graziani:

Please find enclosed the results of the subject EPA Method 9 compliance testing conducted on February 5, 1992. Note that the opacity was 0% and this demonstrates compliance with the maximum permitted allowable of 5%.

Should you have any questions, please do not hesitate to call me.

Respectfully,

KEARNEY DEVELOPMENT CO., INC.



Alan G. Payne
Manager-Pugmill Operations

AGP/cc

Enclosure

cc: Bing Kearney, KDC
George Richardson, FDER (SW District)
Gary Kuberski, FDER (Central FL District)
Dennis Nester, ORANGE CTY EPC
Greg Gonzales, CROSS/TESSITORE

Underground Utilities ☆ Site Development ☆ Since 1956

PROCESS DATA SHEET

DATE February 5, 1992 TESTING TIME FROM: Start 7:50 am
Finish 8:32 am

SOURCE INFORMATION

COMPANY NAME: Kearney Development Co., Inc.

ADDRESS: 8621 E. Buffalo Avenue, Tampa, FL 33610

SOURCE IDENTIFICATION: Permit No. A029-173523 Portable Soil Cement Plant

SOURCE LOCATION (IF DIFFERENT FROM ABOVE):

16002 Bruce B. Downs Blvd., Tampa, FL

STATEMENT OF PROCESS WEIGHT

INPUT PROCESS RATE DURING TESTING TIME 33.62 tons/hr

PRODUCTION RATE DURING TESTING TIME N/A

Assumptions

Cement dust product = 23.54 tons
Tanker unloading time = 42 minutes
Pneumatic pressure on tanker during silo loading = 8 to 10 psi

Calculations

$(23.54 \text{ ton} + 42 \text{ minutes}) (60 \text{ min/hr}) = 33.62 \text{ tons/hr}$

I certify that the above statement is true to the best of my knowledge and belief.



Alan Payne

Production Manager
Title

2/6/92
Date Signed

VISIBLE EMISSION OBSERVATION FORM

No. 00005

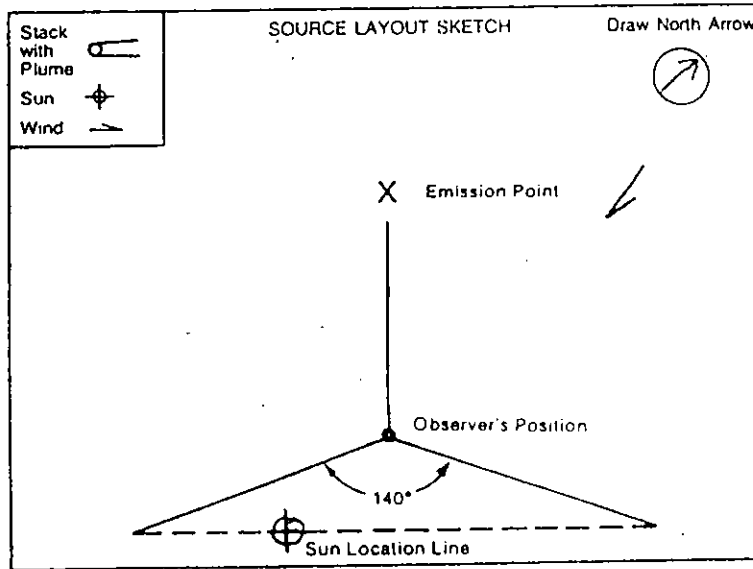
COMPANY NAME *Kearney Development Co. Inc.*
 STREET ADDRESS *16002 Bruce B. Downs Blvd.*
 CITY *Tampa* STATE *FL* ZIP _____
 PHONE (KEY CONTACT) *(813) 621-0855* SOURCE ID NUMBER *A029-173523*

PROCESS EQUIPMENT *Soil-Cement Mixing Plant* OPERATING MODE *OFF*
 CONTROL EQUIPMENT *DCE Volkes Dust Collector* OPERATING MODE *On*

DESCRIBE EMISSION POINT
Rectangular hatch on top of silo.
Confined
 HEIGHT ABOVE GROUND LEVEL *35 ft.* HEIGHT RELATIVE TO OBSERVER
 Start *45 ft* End *45 ft*
 DISTANCE FROM OBSERVER *120 ft* End *120 ft* DIRECTION FROM OBSERVER
 Start *NW* End *NW*

DESCRIBE EMISSIONS
 Start *N/A* End *N/A*
 EMISSION COLOR *N/A* IF WATER DROPLET PLUME
 Start *N/A* End *N/A* Attached Detached
 POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED
 Start *N/A* End *N/A*

DESCRIBE PLUME BACKGROUND
 Start *Gray-White Sky* End *Gray-White Sky*
 BACKGROUND COLOR *Gray-White* SKY CONDITIONS *Overcast* End *Overcast*
 WIND SPEED *7-10 mph* End *7-10 mph* WIND DIRECTION *NW* End *NW*
 AMBIENT TEMP *55° F* End *56° F* WET BULB TEMP *-* RH, percent *-*



ADDITIONAL INFORMATION
23-54 Tons Cement Powder Pneumatic Unloading
Pressure = 8-10 psi Opacity Average = 0%

OBSERVATION DATE		START TIME		END TIME	
2/5/92		7:50 am		8:32 am	
SEC	0	15	30	45	COMMENTS
MIN					
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2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
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7	0	0	0	0	
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12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
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17	0	0	0	0	
18	0	0	0	0	
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22	0	0	0	0	
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26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

OBSERVER'S NAME (PRINT) *Alan G. Payne*
 OBSERVER'S SIGNATURE *[Signature]* DATE *2/5/92*
 ORGANIZATION *Kearney Development Company, Inc.*
 CERTIFIED BY *Eastern Technical Associates* DATE *8/27/91*
 CONTINUED ON VEO FORM NUMBER *00006*

VISIBLE EMISSION OBSERVATION FORM

No. 00006

COMPANY NAME		
STREET ADDRESS		
CITY	STATE	ZIP
PHONE (KEY CONTACT)	SOURCE ID NUMBER	

PROCESS EQUIPMENT	OPERATING MODE
CONTROL EQUIPMENT	OPERATING MODE

DESCRIBE EMISSION POINT

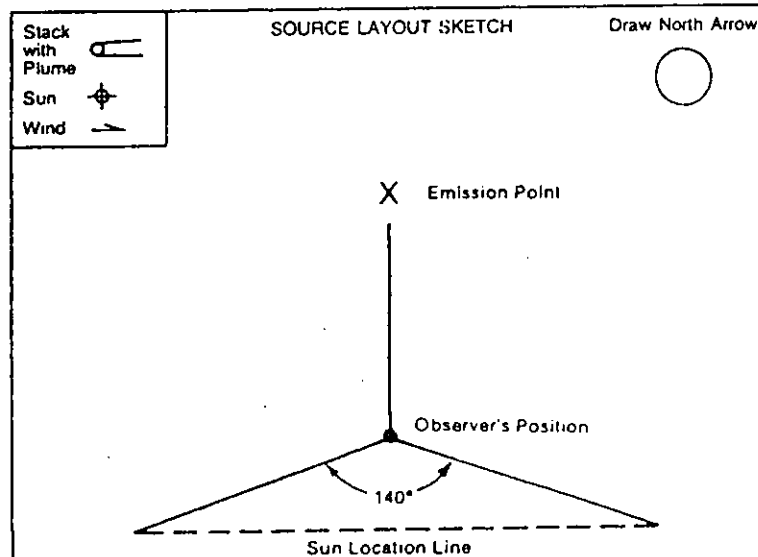
HEIGHT ABOVE GROUND LEVEL	HEIGHT RELATIVE TO OBSERVER Start End
DISTANCE FROM OBSERVER Start End	DIRECTION FROM OBSERVER Start End

DESCRIBE EMISSIONS

Start	End	IF WATER DROPLET PLUME Attached <input type="checkbox"/> Detached <input type="checkbox"/>
EMISSION COLOR Start End		POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED Start End

DESCRIBE PLUME BACKGROUND

Start	End	BACKGROUND COLOR Start End	SKY CONDITIONS Start End
Start	End	WIND SPEED Start End	WIND DIRECTION Start End
Start	End	AMBIENT TEMP	WET BULB TEMP RH, percent



ADDITIONAL INFORMATION

OBSERVATION DATE		START TIME		END TIME	COMMENTS
2/5/92		7:50am		8:32am	
SEC	0	15	30	45	
MIN					
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9	0	0	0	0	
10	0	0	0	0	
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29					
30					

OBSERVER'S NAME (PRINT)

OBSERVER'S SIGNATURE DATE

ORGANIZATION

CERTIFIED BY DATE

CONTINUED ON VEO FORM NUMBER

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KEARNEY

DEVELOPMENT CO., INC.

8621 EAST BUFFALO AVENUE • TAMPA, FLORIDA 33610

TAMPA (813) 621-0855
PINELLAS (813) 443-3609
ORLANDO (407) 856-4076
FLA. WATS (800) 330-5324
FAX (813) 620-0001

Underground Utilities

☆

Site Development

☆

Since 1956

April 11, 1991

Mr. Darrel Graziani
Hillsborough County
Environmental Protection Commission
1410 No. 21st Street
Tampa, Florida 33605

RE: KEARNEY DEVELOPMENT CO., INC. PERMIT #A029-173523
Corner of Ehrlich Road & Dale Mabry Highway, Tampa
Compliance Testing
Hillsborough County, Florida

Dear Mr. Graziani:

Please find enclosed the results of the subject EPA Method 9 compliance testing conducted on April 11, 1991. Note that the opacity was 0% and this demonstrates compliance with the maximum permitted allowable of 5%.

Should you have any questions, please do not hesitate to call me.

Respectfully,

KEARNEY DEVELOPMENT CO., INC.



~~Allan G. Payne~~
Manager-Pugmill Operations

AGP/cc

Enclosure

cc: Bing Kearney, KDC
George Richardson, FDER (SW District)
Gary Kuberski, FDER (Central FL District)
Dennis Nester, ORANGE CTY EPC
Greg Gonzales, CROSS/TESSITORE

Underground Utilities ☆ Site Development ☆ Since 1956

PROCESS DATA SHEET

DATE April 11, 1991 TESTING TIME FROM: Start 8:00 am
Finish 8:42 am

SOURCE INFORMATION

COMPANY NAME: Kearney Development Co., Inc.

ADDRESS: 8621 E. Buffalo Avenue, Tampa, FL 33610

SOURCE IDENTIFICATION: Permit No. A029-173523 Portable Soil Cement Plant

SOURCE LOCATION (IF DIFFERENT FROM ABOVE):

Corner of Ehrlich Road & Dale Mabry Highway, Tampa

STATEMENT OF PROCESS WEIGHT

INPUT PROCESS RATE DURING TESTING TIME 33.76 tons/hr

PRODUCTION RATE DURING TESTING TIME N/A

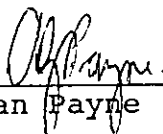
Assumptions

Cement dust product = 23.63 tons
Tanker unloading time = 42 minutes
Pneumatic pressure on tanker during silo loading = 8 to 10 psi

Calculations

(23.63 ton + 42 minutes) (60 min/hr) = 33.76 tons/hr

I certify that the above statement is true to the best of my knowledge and belief.



Alan Payne

Production Manager
Title

4/11/91
Date Signed

VISIBLE EMISSION OBSERVATION FORM

No. 00003

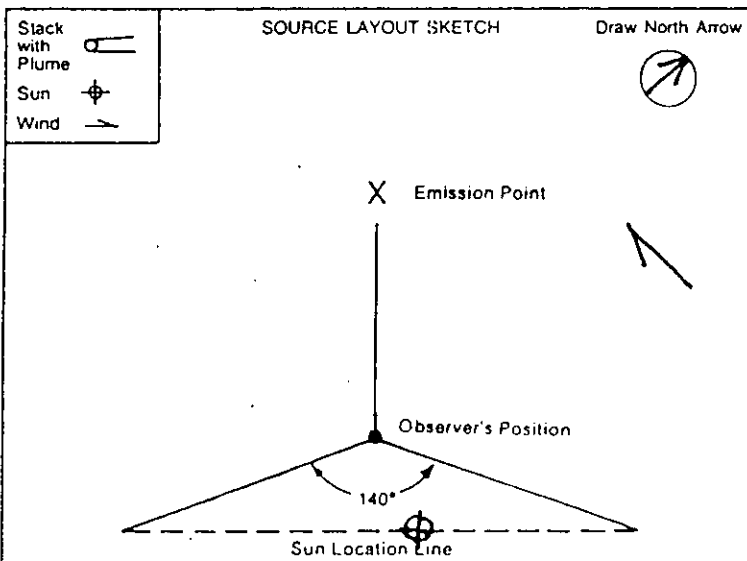
COMPANY NAME Kearney Development Co. Inc
 STREET ADDRESS Cnr Ehrlich & Dale Mabry Hwy
 CITY TAMPA STATE FL ZIP _____
 PHONE (KEY CONTACT) (813) 621-0855 SOURCE ID NUMBER A029-173523

PROCESS EQUIPMENT Soil-Cement Mixing Plant OPERATING MODE Producing
 CONTROL EQUIPMENT DCE Volkes Dust Collector OPERATING MODE On

DESCRIBE EMISSION POINT
Rectangular hatch on top of silo.
Confined
 HEIGHT ABOVE GROUND LEVEL 35 ft. HEIGHT RELATIVE TO OBSERVER
 Start 45 ft End 45 ft
 DISTANCE FROM OBSERVER Start 45 ft End 45 ft DIRECTION FROM OBSERVER
 Start NW End NW

DESCRIBE EMISSIONS
 Start N/A End N/A
 EMISSION COLOR N/A IF WATER DROPLET PLUME
 Start N/A End N/A Attached Detached
 POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED
 Start N/A End N/A

DESCRIBE PLUME BACKGROUND
 Start Clear Blue Sky End Clear Blue Sky
 BACKGROUND COLOR Start Sky Blue End Sky Blue SKY CONDITIONS
 Start Clear End Clear
 WIND SPEED Start 4-7 mph End 7-10 mph WIND DIRECTION
 Start E End E
 AMBIENT TEMP Start 68°F End 71°F WET BULB TEMP _____ RH, percent _____



ADDITIONAL INFORMATION
23.63 Tons Cement Powder. Pneumatic Unloading
Pressure = 8-10 psi. Opacity Average = 0%

OBSERVATION DATE		START TIME		END TIME	COMMENTS
4/10/91		8:00am		8:42am	
SEC	0	15	30	45	COMMENTS
MIN					
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29	0	0	0	0	
30	0	0	0	0	

OBSERVER'S NAME (PRINT) Alan G. Payne
 OBSERVER'S SIGNATURE Al Payne DATE 4/11/91
 ORGANIZATION Kearney Development Company Inc
 CERTIFIED BY Eastern Technical Associates DATE 2/28/91

CONTINUED ON VEO FORM NUMBER 00004

VISIBLE EMISSION OBSERVATION FORM

No. 00004

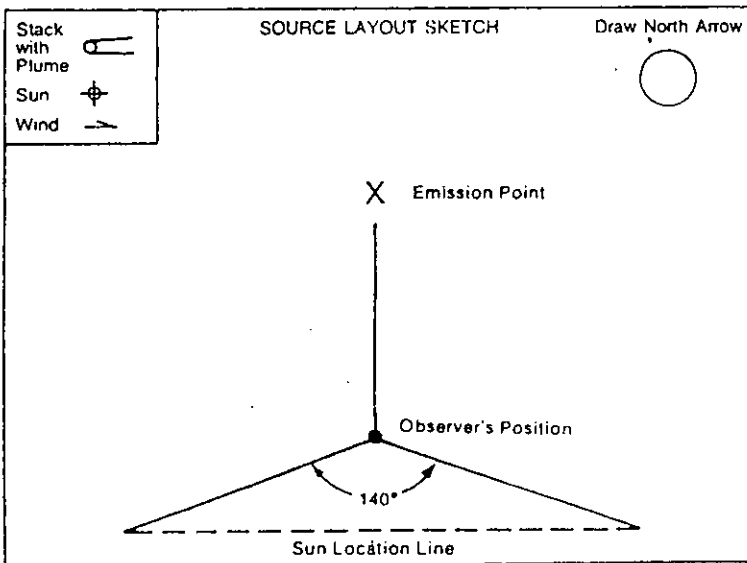
COMPANY NAME		
STREET ADDRESS		
CITY	STATE	ZIP
PHONE (KEY CONTACT)	SOURCE ID NUMBER	

PROCESS EQUIPMENT	OPERATING MODE
CONTROL EQUIPMENT	OPERATING MODE

DESCRIBE EMISSION POINT	
HEIGHT ABOVE GROUND LEVEL	HEIGHT RELATIVE TO OBSERVER Start End
DISTANCE FROM OBSERVER Start End	DIRECTION FROM OBSERVER Start End

DESCRIBE EMISSIONS	
Start End	
EMISSION COLOR	IF WATER DROPLET PLUME
Start End	Attached <input type="checkbox"/> Detached <input type="checkbox"/>
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED	
Start End	

DESCRIBE PLUME BACKGROUND	
Start End	
BACKGROUND COLOR	SKY CONDITIONS
Start End	Start End
WIND SPEED	WIND DIRECTION
Start End	Start End
AMBIENT TEMP	WET BULB TEMP RH, percent
Start End	



ADDITIONAL INFORMATION

OBSERVATION DATE		START TIME				END TIME
4/10/91		8:00am				8:42am
SEC	0	15	30	45	COMMENTS	
MIN	0	0	0	0		
1	0	0	0	0		
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OBSERVER'S NAME (PRINT)	
OBSERVER'S SIGNATURE	DATE
ORGANIZATION	
CERTIFIED BY	DATE

CONTINUED ON VEO FORM NUMBER					
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KEARNEY

DEVELOPMENT CO., INC.

8621 EAST BUFFALO AVENUE • TAMPA, FLORIDA 33610

TAMPA (813) 621-0855
PINELLAS (813) 443-3609
ORLANDO (407) 856-4076
FLA. WATS (800) 330-5324
FAX (813) 620-0001

Underground Utilities ☆ *Site Development* ☆ *Since 1956*

December 20, 1990

Mr. Dennis Nester
Orange County
Environmental Protection Commission
2002 E. Michigan Street
Orlando, Florida 32806

RE: KEARNEY DEVELOPMENT CO., INC. PERMIT #A029-173523
Hartzog Road, Reedy Creek
Compliance Testing
Orange County, Florida

Dear Mr. Nester:

Please find enclosed the results of the subject EPA Method 9 compliance testing conducted on December 19, 1990. Note that the opacity was 0% and this demonstrates compliance with the maximum permitted allowable of 5%.

Should you have any questions, please do not hesitate to call me.

Respectfully,

KEARNEY DEVELOPMENT CO., INC.



Alan G. Payne
Manager-Pugmill Operations

AGP/cc

Enclosure

cc: Bing Kearney, KDC
George Richardson, FDER (SW District)
Gary Kuberski, FDER (Central FL District)
Darrel Graziani, HILLSBORO CTY EPC
Greg Gonzales, CROSS/TESSITORE

Underground Utilities ☆ Site Development ☆ Since 1956

PROCESS DATA SHEET

DATE December 19, 1990 TESTING TIME FROM: Start 8:01 am
Finish 8:51 am

SOURCE INFORMATION

COMPANY NAME: Kearney Development Co., Inc.

ADDRESS: 8621 E. Buffalo Avenue, Tampa, FL 33610

SOURCE IDENTIFICATION: Permit No. A029-173523 Portable Soil Cement Plant

SOURCE LOCATION (IF DIFFERENT FROM ABOVE):

Hartzog Road, Reedy Creek, Florida

STATEMENT OF PROCESS WEIGHT

INPUT PROCESS RATE DURING TESTING TIME 33.13 tons/hr

PRODUCTION RATE DURING TESTING TIME N/A

Assumptions

Cement dust product = 27.61 tons
Tanker unloading time = 50 minutes
Pneumatic pressure on tanker during silo loading = 8 to 10 psi

Calculations

(27.61 ton + 50 minutes) (60 min/hr) = 33.13 tons/hr

I certify that the above statement is true to the best of my knowledge and belief.

Alan Payne
Alan Payne

Production Manager
Title

12/21/90
Date Signed

VISIBLE EMISSION OBSERVATION FORM

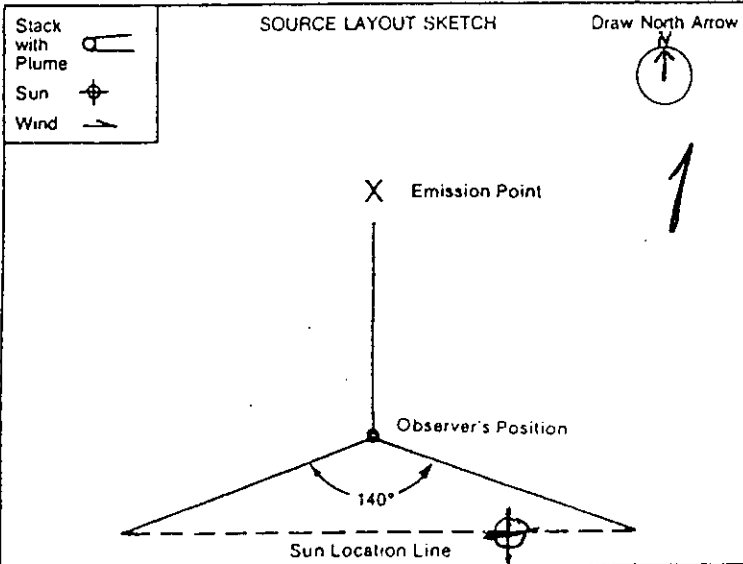
No. 00001

COMPANY NAME Kearney Development Company Inc.
 STREET ADDRESS Hartzog Road
 CITY Reedy Creek STATE FL ZIP _____
 PHONE (KEY CONTACT) (813) 621-0855 SOURCE ID NUMBER A029-173523
 PROCESS EQUIPMENT Soil-Cement Mixing Plant OPERATING MODE Producing
 CONTROL EQUIPMENT DCE Volke, Dust Collector OPERATING MODE On

DESCRIBE EMISSION POINT
Rectangular Hatch on Top of Silo
Confined.
 HEIGHT ABOVE GROUND LEVEL 35 Ft HEIGHT, RELATIVE TO OBSERVER
 Start 30 ft End 30 ft
 DISTANCE FROM OBSERVER Start 50 ft. End 50 ft. DIRECTION FROM OBSERVER
 Start North End North

DESCRIBE EMISSIONS
 Start N/A End N/A
 EMISSION COLOR N/A IF WATER DROPLET PLUME
 Start N/A End N/A Attached Detached
 POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED
 Start N/A End N/A

DESCRIBE PLUME BACKGROUND
 Start Clear Sky End Clear Sky
 BACKGROUND COLOR Sky Blue SKY CONDITIONS Sky Blue
 Start 3-5 mph End 5-7 mph WIND DIRECTION SSW End SSW
 AMBIENT TEMP 60 WET BULB TEMP - RH, percent -
 End 65



ADDITIONAL INFORMATION
27.61 Tons Cement Dust. Pneumatic Unloading
Pressure = 8-10 psi. Opacity Average = 0%

OBSERVATION DATE		START TIME				END TIME
12/19/90		8:01 a.m.				8:51 a.m.
SEC	0	15	30	45	COMMENTS	
MIN						
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OBSERVER'S NAME (PRINT) Alan G. Payne
 OBSERVER'S SIGNATURE [Signature] DATE 12/19/90
 ORGANIZATION Kearney Development Company Inc.
 CERTIFIED BY Eastern Technical Associates DATE 08/01/90

CONTINUED ON VEO FORM NUMBER 00002

VISIBLE EMISSION OBSERVATION FORM

No. 00002

COMPANY NAME _____

STREET ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE (KEY CONTACT) _____ SOURCE ID NUMBER _____

PROCESS EQUIPMENT _____ OPERATING MODE _____

CONTROL EQUIPMENT _____ OPERATING MODE _____

DESCRIBE EMISSION POINT _____

HEIGHT ABOVE GROUND LEVEL _____ HEIGHT RELATIVE TO OBSERVER
Start _____ End _____

DISTANCE FROM OBSERVER _____ DIRECTION FROM OBSERVER
Start _____ End _____

DESCRIBE EMISSIONS

Start _____ End _____

EMISSION COLOR _____ IF WATER DROPLET PLUME
Start _____ End _____ Attached Detached

POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED
Start _____ End _____

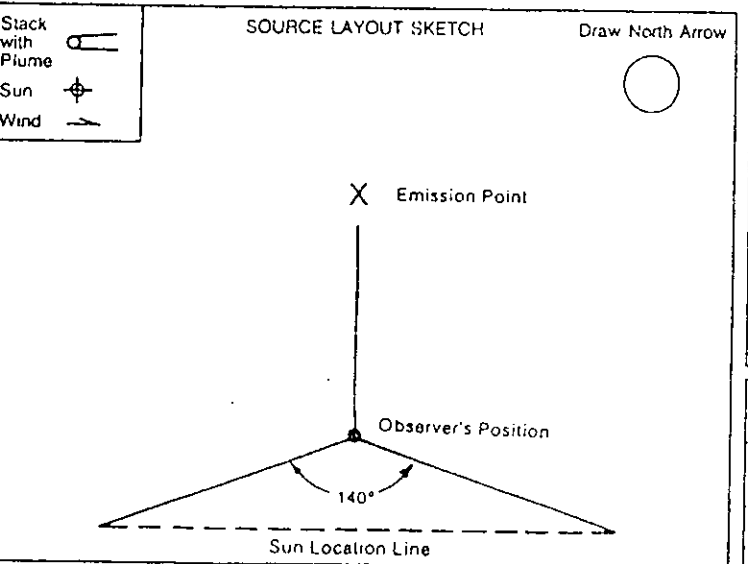
DESCRIBE PLUME BACKGROUND

Start _____ End _____

BACKGROUND COLOR _____ SKY CONDITIONS
Start _____ End _____

WIND SPEED _____ WIND DIRECTION
Start _____ End _____

AMBIENT TEMP _____ WET BULB TEMP _____ RH, percent _____



OBSERVATION DATE		START TIME			END TIME	COMMENTS
12/19/90		8:01 a.m.			8:51 a.m.	
SEC	0	15	30	45		
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OBSERVER'S NAME (PRINT) _____

OBSERVER'S SIGNATURE _____ DATE _____

ORGANIZATION _____

CERTIFIED BY _____ DATE _____

ADDITIONAL INFORMATION _____

CONTINUED ON VEO FORM NUMBER _____