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DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

July 26, 1983

Mr. John W. Seabury, P.E. Seabury-Bottorf Associates, Inc. 3702 Silver Star Road Orlando, Florida 32808

Dear Mr. Seabury:

We acknowledge receipt of your July 11, 1983 letter revising the application for permit to construct a soil cement plant for Martin Paving Company. We understand the plant will be built near Flagler Beach instead of Daytona Beach.

As soon as you complete the application by furnishing the maps and site plan showing the proposed plant location in Flagler County, we will resume processing the application.

Sincerely,

Willard Hanks

cc: NE District
St. Johns River District



SEABURY BOTTORF ASSOCIATES, INC.

CONSULTING ENGINEERS

ANALYTICAL LABORATORY

3702 SILVER STAR RD.

ORLANDO, FLORIDA, 32808

305-298-0846

July 11, 1983

Project No. 228-7

Mr. Willard Hanks
Bureau of Air Quality Management
Florida Dept. of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Rd.
Tallahassee, Florida 32301-8241

DER

JUL 14 1983

BAQM

Subject: Martin Paving Co.

Construction Permit for Proposed Soil Cement Plant

Dear Mr. Hanks:

This is to confirm and summarize our telephone discussion of the most recent turn of events in regard to the application for permit to construct a soil cement plant by Martin Paving Co. of Daytona Beach, Florida.

We have been informed by Mr. Martin that his Company has been awarded sufficient work by the ITT Palm Coast Development to justify reassignment of this plant to the Flagler Beach vicinity.

Accordingly, it is his intention to move all components of this portable facility to that area for assembly and operation as soon as proper Florida Department of Environmental Regulation can be obtained.

Thank you for bringing the special provisions of 17-2.500(3) (Relocatable Facilities) to our attention.

Please consider this letter as a request to modify the Application to apply to the new location. Maps, site plan, and full description will follow as soon as we can obtain information on these details.

Very truly yours,

John W. Seabury, P. E.

JWS/ac

cc: Mr. Robert Martin

St. Johns River District, FDER-Orlando Northeast District, FDER-Jacksonville



SEABURY-BOTTORF ASSOCIATES, INC.

CONSULTING ENGINEERS

ANALYTICAL LABORATORY

3702 SILVER STAR RD.

ORLANDO, FLORIDA, 32808

305-298-0846

June 27, 1983

Project No. 228-7

C. H. Fancy, P. E., Deputy Chief Bureau of Air Quality Management Florida Dept. of Environmental Regulation Twin Towers Office Building 2600 Blair Stone Rd. Tallahassee, Florida 32301-8241 DER

LAQM

Dear Mr. Fancy:

This is in response to your letter of May 25, 1983, re information needed to complete application for construction of cement silo by Martin Paving Co. of Daytona Beach, and is submitted on behalf of Martin Paving Co.

To facilitate relation of answers to questions, answers are numbered in same order as questions.

- 1. Control equipment which will be used to minimize emissions when cement is removed from silo consists of tubes, covers, and shrouds employed in the following manner:
 - a. Cement will drop from silo directly through a short tube into a covered screw conveyor.
 - b. Cement will drop from covered screw conveyor through a canvas shroud onto a troughed conveyor belt.
 - c. Cement will drop from troughed belt into pug mill (paddle type) mixer where contact with water and damp sand will destroy chance of subsequent air emission.

Operating practices as normally followed by the Martin Paving Co. will allow the above mentioned equipment to be used for its intended purpose without creation of significant fugitive emissions.

2. Provision for control of fugitive emission from accidental spill during loading or unloading consist of prompt shovel and broom cleanup of the spilled material.

DEPARTMENT OF ENVIRONMENTAL REGULATION

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Mr. C. H. Fancy - 2 - June 27, 1983
3. Excepting only the screw conveyor, belt conveyor, and pug mill mixer which are presently omitted from Application but will be

used only in conjunction with the silo as described in Item 1 above: The cement is not to be used in any equipment requiring

If it would be your counsel that Application should be amended to include this auxiliary apparatus after consideration of its use and relationship to the silo, as described herein; please consider this letter as a request to so include.

4. Cement from the silo will not be used in any existing permitted equipment and will not increase allowable emissions from any existing permitted equipment.

In regard to the issue of the relationship of equipment outlined in this Application and nearby existing permitted equipment, may we invite your attention to the fact that this equipment will use Portland Cement in the production of so-called "soil cement"; whereas the nearby permitted equipment uses liquid asphalt to make asphaltic concrete by a dissimilar and independent process.

Very truly yours,

SEABURY-BOTTORF ASSOCIATES, INC.

Permit from the Department.

John W. Seabury, P. E.

JWS/ac

cc: Mr. Robert D. Martin

St. Johns River District, FDER-Orlando

№o. 0157015
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RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL
NOT FOR INTERNATIONAL
(See Reverse)

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STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

May 25, 1983

Mr. Robert D. Martin, President Martin Paving Company P. O. Box 1909 Daytona Beach, Florida 32015

Dear Mr. Martin:

The Bureau of Air Quality Management has reviewed the application for permit to construct a cement silo at your plant located near Daytona Beach. Additional information is needed before the department can process this application. The information needed to complete this application is listed below.

- 1. What control equipment and operating practice will be used to minimize emissions when the cement is removed from the silo?
- What provisions will be made to control fugitive dust caused by any spill during loading and unloading of the silo?
- 3. Will the cement from this silo be used in any process equipment that does not presently have a permit to operate from the department? If so, the application needs to be amended to include this equipment.
- 4. Will the cement from the new silo be used in existing permitted equipment? If so, will the emissions from the existing equipment increase above the allowable values?

If you have any questions on the information being requested, please call Willard Hanks at (904)488-1344. The department will resume processing your application as soon as we receive the information requested above.

Sincerely,

C. H. Fancy, P. E.

Deputy Chief

Bureau of Air Quality
Management

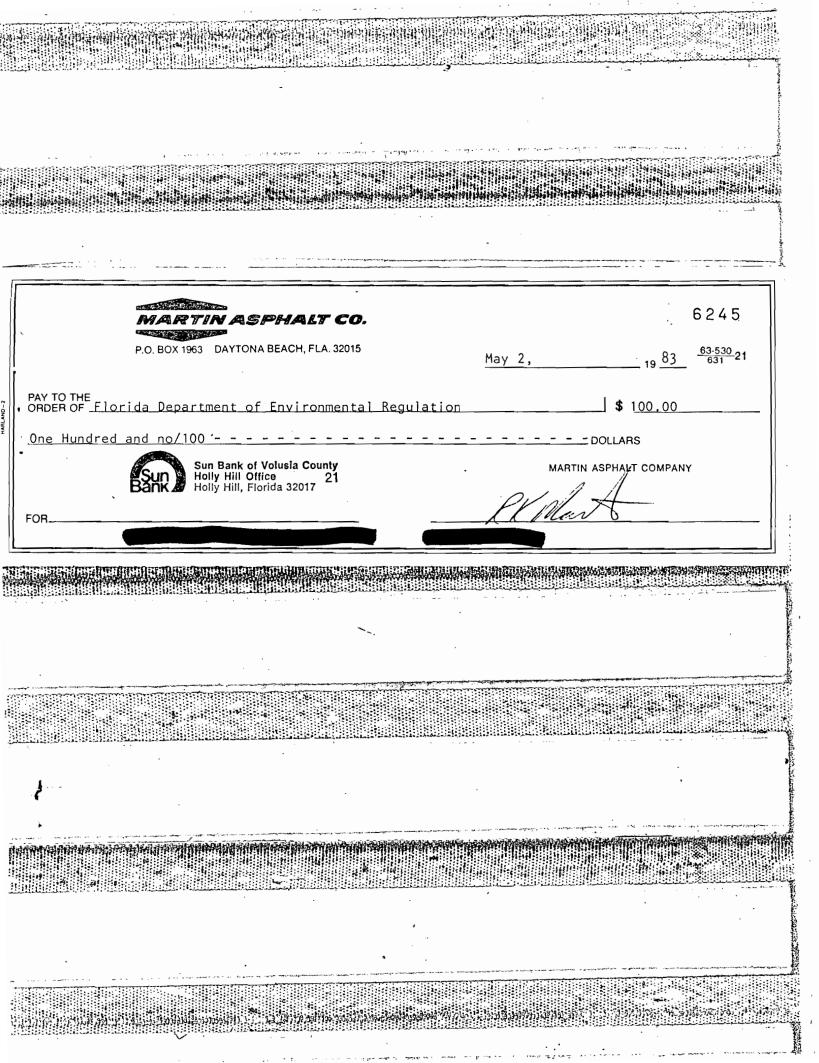
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cc: St. Johns River District Seabury-Bottorf Associates, Inc.

DER MAY 0 9 1983

BAQM

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LETTER OF TRANSMITTAL

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	PHONE (904) 7	' 61-8383		DAT	™ May 2, 1983	JOB NO.
0		iver District	mental Regula	tion RE:	ENTION	
		Blvd., Suite 32803	e 232	337-123	37	TO CONSTRUCT AIR OURCES (Cement Silo)
VE A	RE SENDING YO	U ဩ Attached	□ Under separat	TECEIVED District	9	_the following items:
•	☐ Shop dra	awings 🗆	Prints	COLLAR COLLARS	☐ Samples	☐ Specifications
	☐ Copy of	letter \Box	Change order			·
PIES	DATE	NO.			DESCRIPTION	
4	4/30/83 5/02/83		cuted Applica O Check	tions		
HES	E ARE TRANSMI	TTED as checked	below:			
	☐ For appr	oval	☐ Approved as	submitted	☐ Resubmit	copies for approval
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REMA	RKS					
	Gentlemen:					
	Enclose	ed please find	the above c	aptioned ite	ems as request	ed.

COPY TO Seabury-Bottorf Assoc. (w/ opy)

_ SIGNED: .

Robert D. Martin, President

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLA:R STONE ROAD TALLAHASSEE, FLORIDA 32301





BOB GRAHAM GOVERNOR ORIA J. TSCHINKEL SECRETARY

SAINT JOHNS

	APPLICATION STORIGHERX	CEXCONSTRUCT	AIR POLLU	Stopp Office	9
SOURCE TYPE:	Cement Silo	[X]	New ¹ []Ex	CAR SIN ST	,
APPLICATION TYPE	E: [X] Construction [] Operation	[] Modifica	ition	
COMPANY NAME:	Martin Paving Co.			COUNTY: Vo	olusia
Identify the spe	ecific emission point so	bba (e)esiuc	ressed in this	application ((i.e. Lime
Kiln No. 4 with	Venturi Scrubber; Peaki	ing Unit No.	2, Gas Fired)	Cement Silo	w/Baghouse
SOURCE LOCATION	: Street Off Clyde Mor	ris Blvd.		City_ W. of	S. Daytona
	UTM: East 17-4966	575	North	3224270	
	Latitude 29 9	9 "N	Longit	ude <u>81 . 58</u>	, <u>30 "</u> w
APPLICANT NAME A	AND TITLE: Robert I	. Martin			
APPLICANT ADDRES	Ss: P. O. Box 1909, 1	617 S. Nova	Road, Daytona	Beach, Florid	da 32015
	SECTION I: STATEM	ENTS BY APP	LICANT AND ENG	INEER	
4. APPLICANT					
I am the und	dersigned owner or autho	rized repre	sentative* of_	Martin Paving	g Co.
permit are to I agree to facilities: Statutes, an also understand I will personal isonal income.	nat the statements made true, correct and complete maintain and operate in such a manner as to not all the rules and region that a permit, if promptly notify the depent.	ete to the bethe pollution comply wit gulations of granted by artment upon	est of my know on control so h the provisi the departmenth departmenth or lega	viedge and beliurce and poil on of Chapter of and revision t, will be nor i transfer of	ief. Further, ution control 403, Floridans thereof. Intransferable
Accaem fecter () authorization	signed:	Robert D. Ma	artin, Presider	
		· N		(Please Type)	
		Date:	4/30/87 Tele	phone No. 904/	/761-8383
8. PROFESSIONAL	ENGINEER REGISTERED IN		, ,		
been xixexexixxxx principles a	certify that the enginee waxix examined by me and applicable to the treat ication. There is reas	found to be ment and dis	e in conformi posal of poll	ty with moder utants charact	n engineering erized in the
^l See Florida Ad	dministrative Code Rule	17-2.100(57) and (104)		
OER Form 17-1.20 Effective Octobe		Page 1 of	12		

	the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and if applicable, pollution sources.				
	Signed John W.				
	John W. Seabury				
	Name (Please Turk par				
	Seabury-Bottorf Associates, Inc.				
	Company Name (Pleas'en, ype)				
	3702 Silver Star Rd., Orlando, Florida 32808				
	Mailing Address (Please Type)				
Flo	orida Registration No. 8719 Date: April 27, 1983 Telephone No. 305/298-0846				
	SECTION II: GENERAL PROJECT INFORMATION				
Α.	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.				
	Construction of a bulk silo for portland cement. Silo to be supplied with cement				
	from pneumatically unloaded "tank trucks". A baghouse effectively filters the				
	air venting from silo during unloading, resulting in compliance.				
а.	Schedule of project covered in this application (Construction Permit Application Only) Upon issue of Start of Construction permit Completion of Construction 30 days after start				
c.	Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)				
	Cost of baghouse \$1,490.00				
Ο.	Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.				
	None				

	power plant, hrs/yr; if seasonal, describe: Operation is not se	
_va	aries according to requirements of the paving trade. Above requested h	nours
re	epresent independent unrelated daily, weekly, and yearly maximums.	
	·	
	this is a new source or major modification, answer the following quest es or No)	ians.
1.	Is this source in a non-attainment area for a particular pollutant?	No
	a. If yes, has "offset" been applied?	
	b. If yes, has "Lowest Achievable Emission Rate" been applied?	
	c. If yes, list non-attainment pollutants.	
2.	Does best available control_technology (BACT) apply to this source? If yes, see Section VI.	Yes
3.	Does the State "Prevention of Significant Deterioriation" (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
	"Reasonably Available Control Technology" (RACT) requirements apply this source?	No
	a. If yes, for what pollutants?	
	b. If yes, in addition to the information required in this form, any information requested in Rule 17-2.650 must be submitted.	/

Attach all supportive information related to any answer of "Yes". Attach any 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:

	Contam	inants	Utilization		
Description	Туре	% Wt	Rate - lbs/hr	Relate to Flow Diagram	
Portland Cement	Particulate	1 to 2	64,000	(1)	

a	Process	Rate	i E	applicable:	1500	Section	V T+a	am 11	
σ.	Process	race.	1 7	applicable:	(See	section '	v. ite	em 17	

1.	Total Process Input Rate (1bs/hr): 64,000	
2.	Product Weight (lhs/hr):	64,000	

2.	Product Weigh	t (lbs/hr):	64,000			
4 :			d. (Information	 	 <i>c</i>	

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

Name of	Emiss	ion ^l	Allowed ² Emission Rate per	Allowable ³ Emission	Potent Emiss		Relate to Flow	
Contaminant	Maximum lbs/hr	Actual T/yr	Rule 17-2	lbs/hr	lbs/yr	T/yr	Diagram	
Particulate	2.56	0.96	17-2.650(2)	c)11	1920	0.96	2	
			· -					
					_			

¹See Section V, Item 2.

 $^{^2}$ Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million 8TU heat input)

³Calculated from operating rate and applicable standard.

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

	Control	Devices:	1500	Santian	v	Ttom	4)	ı
J .	LODEFOL	uevices:	(See	Section	٧.	ltem	4 1	j

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Stevens Mod. SV170	Particulate	99.8%	Unknown	AP42, 8.6-1
		,		
			•	

E. Fuels None

	Consump	tion*			
Type (Be Specific)	avq/hr	max./hr	Maximum Heat Input (MMBTU/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:	8TU/1b	·	_ BTU/gal
Other Fuel Contaminants (which may ca	ause air p	ollution):	
F. If applicable, indicate the perc	ent of fue	l used for space heating.	
Annual Average	Ma	ximum	
G. Indicate liquid or solid wastes	generated	and method of disposal.	
Cement dust shaken from bags after	each perio	d of use falls directly into storag	e
silo for 100% recovery.			

							x 8" - faces East.
	jht: <u>Outle</u>						
		-					
							FPS
			-		OR INFORMA		
Type of Waste	Type O (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage	Type IV (Pathological)		Type VI s (Solid By-prod.)
Actual lb/hr Inciner- ated							
Uncon- trolled (lbs/hr)							
Total Weig		ted (lbs/h.	r) Operation		_ Design C		/hr)wks/yr
Date Const	ructed		·	Model	No		· · · · · · · · · · · · · · · · · · ·
		Volume (ft) ³	Heat R (BTU		Fu	8TU/hr	Temperature (°F)
Primary C	hamber						
Secondary	Chamber						
Stack Heig	ht:	ft. :	Stack Dia	mter:		Stack	Temp
Gas Flow R	ate:		_ACFM	· 		Velocity:	FPS
*If 50 or		er day des	ign capac	ity, submi	t the emi:		in grains per stan-
Type of po	llution con	trol devic	e: [] C	yclone [] Wet Scr	ibber [] A	fterburner
			. [] 0	ther (spec	:ify)		
DER Form 1 Effective	7-1.202(1) November 30	, 1982		Page 6 of	12		

rier description	0, 00	eracing cr	aracte	risti	CS OI	control	GEAT	es:			
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ltimate disposal sh, etc.):	of an	y effluent	other	than	that	emitted	from	the	stack	(scrubber	water,
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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. ITEMS 1 thru 5 ARE ADDRESSED ON SUPPLEMENT PAGES 7a,b,c,d,e.

- 1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]
- ?. 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 (l-efficiency).
- 5. 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. See Drawing No. 228-7-1
- 7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of air-borne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map). See Drawing No. 228-7-3
- 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.

See Drawing No. 228-7-2

Effective November 30, 1982

ER Form 17-1.202(1)

Page 7 of 12

9.	The appropriate application fee in accormade payable to the Department of Environ	dance with Rule 17-4.05. The check should be emental Regulation.
10.	With an application for operation permit struction indicating that the source we permit.	a, attach a Certificate of Completion of Con- as constructed as shown in the construction
	SECTION VI: BEST AVAIL	ABLE CONTROL TECHNOLOGY
A -	Are standards of performance for new sta applicable to the source?	tionary sources pursuant to 40 C.F.R. Part 60
	[] Yes [X] No	
	Contaminant	Rate or Concentration
8.	Has EPA declared the best available cont yes, attach copy)	rol technology for this class of sources (I
	[] Yes [X] No	
	Contaminant	Rate or Concentration
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
с.	What emission levels do you propose as be	est available control technology?
	Contaminant	Rate or Concentration
	Emission generated by fabric filter of 170	Sq. Ft.
	Particulate	2.56 Lbs./Hr. or less
Ο.	Describe the existing control and treatme	ent technology (if any).
	1. Control Device/System:	2. Operating Principles:
	3 Efficiency:*	A Canital Costs.

Explain method of determining

DER Form 17-1.202(1)

Effective November 30, 1982 Page 8 of 12

	5.	Useful Life:		6.	Operating Costs:	
	7.	Energy:		8.	Maintenance Cost:	
	9.	Emissions:				
		Contaminant			Rate or Concentration	
				٠.		
		•				
				-		
	10.	Stack Parameters				
	а.	Height:	ft.	ь.	Diameter:	ft.
	c.	Flow Rate:	ACFM	d.	Temperature:	۰F.
	e.	Velocity:	FPS			
ε.		cribe the control and treatmen additional pages if necessary)		olog	y available (As many types as	applicable,
	1.					
	а.	Control Device:		ь.	Operating Principles:	
	c:	Efficiency: 1		d.	Capital Cost:	
	e.	Useful Life:		f.	Operating Cost:	
	g.	Energy: 2		h.	Maintenance Cost:	
	i.	Availability of construction m	aterial	s an	d process chemicals:	
	j.	Applicability to manufacturing	proces	ses:		
	k.	Ability to construct with con- within proposed levels:	trol de	vice	, install in available space,	and operate
	2.					
	а.	Control Device:		ь.	Operating Principles:	
	c.	Efficiency: 1		d.	Capital Cost:	
	е.	Useful Life:		f.	Operating Cost:	
	g.	Energy: 2		h.	Maintenance Cost:	
	i.	Availability of construction m	aterial	s an	d process chemicals:	
1 E x 1	plai	n method of determining efficie to be reported in units of ele	ncy.	•	on VWW docing make	
- E N	ergy	to be reported in units or sie	ctrical	. ром	er → kwu design race.	
		m 17-1.202(1) ve November 30, 1982	Page	9 of	12 .	

Page 9 of 12

j. Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: 3. Control Device: Operating Principles: Efficiency: 1 Capital Cost: Useful Life: Operating Cost: Energy: 2 Maintenance Cost: Availability of construction materials and process chemicals: Applicability to manufacturing processes: j. Ability to construct with control device, install in available space, and operate k. within proposed levels: 4. Control Device: b. Operating Principles: a. Efficiency: 1 Capital Costs: d. с. Useful Life: f. Operating Cost: e. Energy: 2 h. Maintenance Cost: q. Availability of construction materials and process chemicals: i. Applicability to manufacturing processes: Ability to construct with control device, install in available space, and operate within proposed levels: Describe the control technology selected: Efficiency: 1 1. Control Device: 2. 3. Capital Cost: 4. Useful Life: Energy: 2 5. Operating Cost: 6. 7. Maintenance Cost: 8. Manufacturer: 9. Other locations where employed on similar processes: a. (1) Company: (2) Mailing Address: (4) State: (3) City: ¹Explain method of determining efficiency. Energy to be reported in units of electrical power - KWH design rate. DER Form 17-1.202(1)

Page 10 of 12

Effective November 30, 1982

(5) Environmental Manager:	
(6) Telephone No.:	
(7) Emissions: ¹	
Contaminant	Rate or Concentration
<u> </u>	<u> </u>
(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
	<u> </u>
	<u> </u>
	<u> </u>
(8) Process Rate: 1	
10. Reason for selection and descripti	on of systems:
$^{ m l}$ Applicant must provide this information w available, applicant must state the reason	
SECTION VII - PREVENTION	OF SIGNIFICANT DETERIORATION
A. Company Monitored Data	
lno. sites TSP	() S0 ² * Wind spd/dir
Period of Monitoring month	/ / / to / / month day year
Other data recorded	
Attach all data or statistical summarie	s to this application.
Specify bubbler (8) or continuous (C).	
DER Form 17-1.202(1) Effective November 30, 1982 Pag	e 11 of 12

	2.	Instrumentation, Field and Laboratory			
	a.	Was instrumentation EPA referenced or its	s equivalent? [] Yes [] No		
	ь.	Was instrumentation calibrated in accorda	nce with Department procedures?		
`		[] Yes [] No [] Unknown			
8.	Met	teorological Data Used for Air Quality Mode	ling		
	1.	Year(s) of data from / / month day ye	to / / ear 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)		
с.	Com	mputer Models Used			
	1.		Modified? If yes, attach description.		
	2.		Modified? If yes, attach description.		
	3.				
	4.		Modified? If yes, attach description.		
	Att	tach copies of all final model runs showing ple output tables.			
ο.	App	plicants Maximum Allowable Emission Data			
	Pol	llutant Emission Rate			
		TSP	grams/sec		
		s 0 ²	grams/sec		
ε.	Emi	ission Data Used in Modeling			
	poi	tach list of emission sources. Emission da int source (on NEDS point number), UTM coo d normal operating time.	ta required is source name, description of rdinates, stack data, allowable emissions,		
F.	Att	tach all other information supportive to th	e PSD review.		
G.	ble	scuss the social and economic impact of the e technologies (i.e., jobs, payroll, prosessment of the environmental impact of the	duction, taxes, energy, etc.). Include		

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.

MARTIN PAVING CO.

SUPPLEMENT TO SECTION V, DER FORM 17-1.202(1)

SUPPLEMENTAL REQUIREMENTS:

1. Derivation of Process Input Rate:

Normal time required to unload 24 ton load is reported to be 45 minutes.

24 x 2000 ÷ 45 = 1066.7 Lbs./Min. 1066.7 x 60 = 64,000 Lbs./Hr.

2. Basis of Emission Estimate:

Baghouses on vents of cement silos were unknown prior to the advent of air pollution laws. Vents were simple openings and loss of cement by air exhaust was considered to be too minor to justify any expense for control devices. Losses were considered to be negligible, not more than 1 or 2% at most.

For purpose of estimating emission assume uncontrolled emission at 2% of gross weight unloaded.

Unloading Rate = 64,000 Lb./Hr. 64,000 x .02 = 1280 Lbs./Hr.

Potential Emission = 1280 Lb./Hr.

Efficiency of cloth filter = 99.8%

From AP42, Table 8.6-1, footnote "d"

Actual Emission = Potential (1 - efficiency)

Actual Emission = 1280 (1 - .998)

Actual Emission = 2.56 Lb./Hr.

3. Basis for Potential Emission

Potential emission will amount to:

2.56 Lb./Hr.

 $2.56 \text{ Lb./Hr.} \times 3 \text{ Hrs./Day} = 7.68 \text{ Lb./Day}$

7.68 Lb./Day x 5 Days/Wk. = 38.4 Lb./Wk.

 $38.4 \text{ Lb./Wk.} \times 50 \text{ Wks./Yr.} = 1920 \text{ Lb./Yr.}$

 $1920 \div 2000 = 0.96 \text{ Tons/Yr}.$

4. Details of Control System (see Supplement pages 7c, 7d & 7e)

Stevens Mfg. Co., Tomkinsville, Ky. 42167 Model SV170 16 Bags 7" dia. x 72" (spun polyester) 170 Sq.Ft. Total

Cloth Air Ratio:

Unloading Air 350 CFM during unloading Unloading Air 700 CFM at end of load

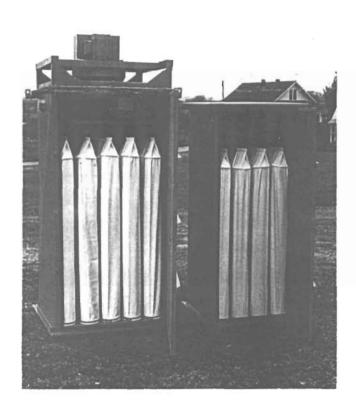
Maximum air flow 700 CFM 700 + 170 = 4.12 Cu.Ft./Sq.Ft.

5. See Item 2. above.

P. O. BOX 488 TOMPKINSVILLE, KY. 42167 1-800-626-0200

IN STATE CALL COLLECT 502-487-6774

AIR POLLUTION EQUIPMENT



- STEPHENS FILTER VENTS PROVIDE HIGHLY EFFECTIVE DUST CONTROL FOR CEMENT AND FLYASH AS WELL AS OTHER GRANULAR MATERIALS.
- FINE MESH FILTER BAGS OF ACS/POLYESTER SATEEN ALLOW MOVING DUST PARTICLES TO BE TRAPPED AND THE RELEASE OF CLEANSED AIR INTO THE ATMOSPHERE.
- THE TRAPPED MATERIAL IS THEN RETURNED TO STORAGE BY MOTORIZED BAG SHAKING ASSEMBLY. THIS SAVES YOU MONEY.
- HOUSING IS OF HIGH QUALITY STEEL, AND DESIGNED TO PERMIT EASY MAINTENANCE.
- THREE STANDARD MODELS AVAILABLE.

RECOMMENDED USES

- MODEL SV-170 FOR MEDIUM TO HEAVY USAGE. READY-MIX PLANT
- MODEL SV-265 FOR HEAVY USAGE, TWO TRUCKS UNLOADING AT ONE TIME
- MODEL SV-380 FOR EXTRA HEAVY USAGE AND SPECIAL APPLICATION

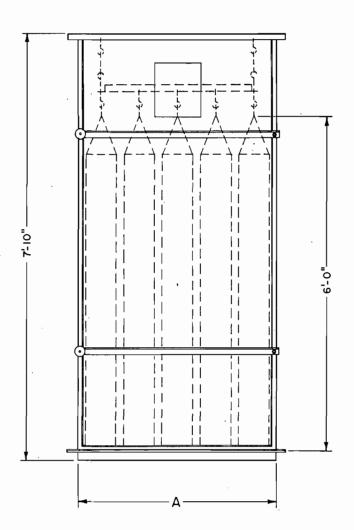
ACCESSORY EQUIPMENT

- AUTOMATIC TIMER REGULATES TIME PERIOD FOR CLEANING OPERATION
- BLOWER 900 CFM CAPACITY DIRECT DRIVE MOTOR 2 HP. 220 440 VOLTS 3-PHASE FOR SV-170 FILTER VENT
- BLOWER 1600 CFM CAPACITY, 5 HP 220 460 VOLT 3-PHASE FOR SV-265 FILTER VENT

OPERATING INSTRUCTIONS

- BAGS ARE SHAKEN ONLY AFTER COMPLETE UNLOADING FOR 5 TO 6 MINUTES WITH STANDARD 1/4 HP. 110 VOLT MOTOR & SHAKER ASSEMBLY.
- WHEN EQUIPPED WITH BLOWER IT IS RECOMMENDED THAT THE BLOWER BE IN OPERA-TION DURING COMPLETE UNLOADING. THEN BLOWER TO BE TURNED OFF AND BAGS CLEANED BY SHAKING.

FILTER VENT SPECIFICATIONS



FILTER BAG SPECIFICATIONS

FIBER:

SPUN POLYESTER

CONSTRUCTION:

SATEEN

WEIGHT:

9.1 OZ./SQ. YD.

AIR PERMEABILITY: 20 - 30 CFM SQ. FT.

MULLEN BURST:

620 LBS.

BREAKING:

FILL: 510 LBS.

STRENGTH:

WARP: 474 LBS.

TEMP. RANGE:

220°F - 270°F

RECOVERY:

99.6% - TO ONE MICRON

IN SIZE

INSTALLATION INSTRUCTIONS

- 1. WELD ADAPTER FLANGE TO TOP OF SILO
- 2. CUT OUT AREA INSIDE ADAPTER FLANGE
- 3. LAY WEATHER STRIPPING ON INSIDE OF BOLT HOLES ON ADAPTER FLANGE
- 4. MOUNT FILTER VENT ON ADAPTER FLANGE AND BOLT DOWN
- 5. PROVIDE SWITCH AND MAKE ELECTRICAL CON-NECTIONS TO 1/4 HP. 110 VOLT - SINGLE PHASE MOTOR.

MODEL NO.	NO. OF BAGS	BAG SIZE	CLOTH AREA	APPROX. WEIGHT	DIM. "A"
· SV-170	16	7'' DIA. × 72''	170 SQ. FT.	600 LBS.	36''
SV-265	25	7'' DIA. × 72''	265 SQ. FT.	750 LBS.	44"
SV-380	36	7" DIA. × 72"	380 SQ. FT.	1000 LBS.	54''

STEPHENS FILTER VENT WILL MEET ALL LOCAL, STATE, AND FEDERAL AIR POLLUTION REGULATIONS.



COTTON PRODUCTS DIVISION

The Stearns & Foster Co.

WYOMING AVE. AND WILLIAMS ST. . CINCINNATI, OHIO 45215 . 513/948-5200

Product Data - ACS Fabric - Polyester Sateen - used in the construction of filter bags for:

> Stephens Manufacturing Co., Inc. P. O. Box 488 Tompkinsville, KY 42167 Phone: (502) 487-6258

Fiber:

Construction: (weave)

Weight: (normal)

Air Permeability: Mullen Burst: (nominal)

Breaking Strenght: (normal)

Spun Polyester

Sateen

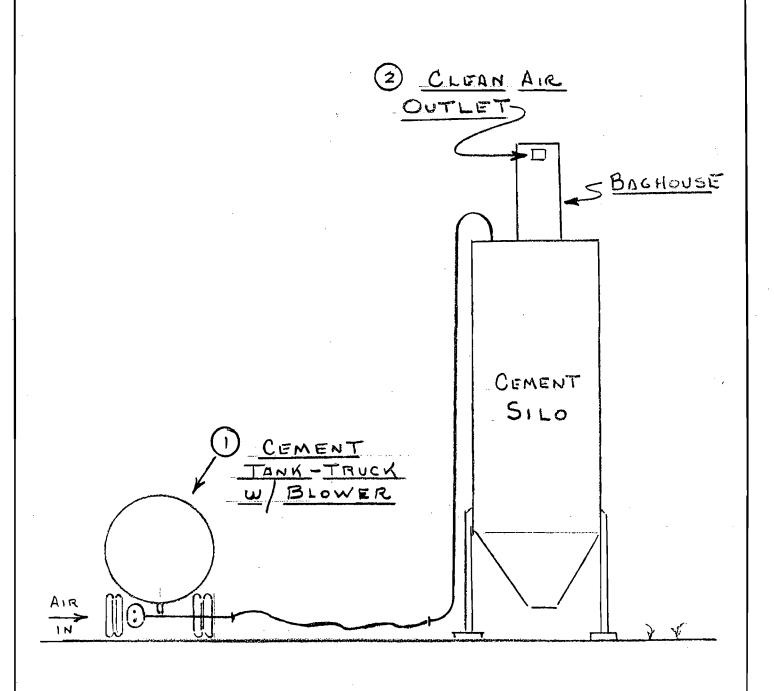
9.1 ox/sq. yd. 20 - 30 CFM

620 lbs.

Warp: 474 lbs. Fill: 510 lbs.

ACS polyester sateen fabric has similiar filtering characteristics to cotton sateen but at the same time exhibits longer life which results in less bag changing. This is illustrated by:

- Greater breaking strength.
- Higher temperature capabilities: 220F - 270°F verses cotton at 180°F.
- Greater resistance to chemical attack.
- Extremely low moisture adsorption.
- Much greater resistance to abrasion -Taber abrasion tests have shown that polyester sateen will resist wear approximately three times as long as the similar cotton fabric (642 cycles verses 212 cycles for cotton using H-18 wheels and 1,000 qms. wieght).



FLOW DIAGRAM

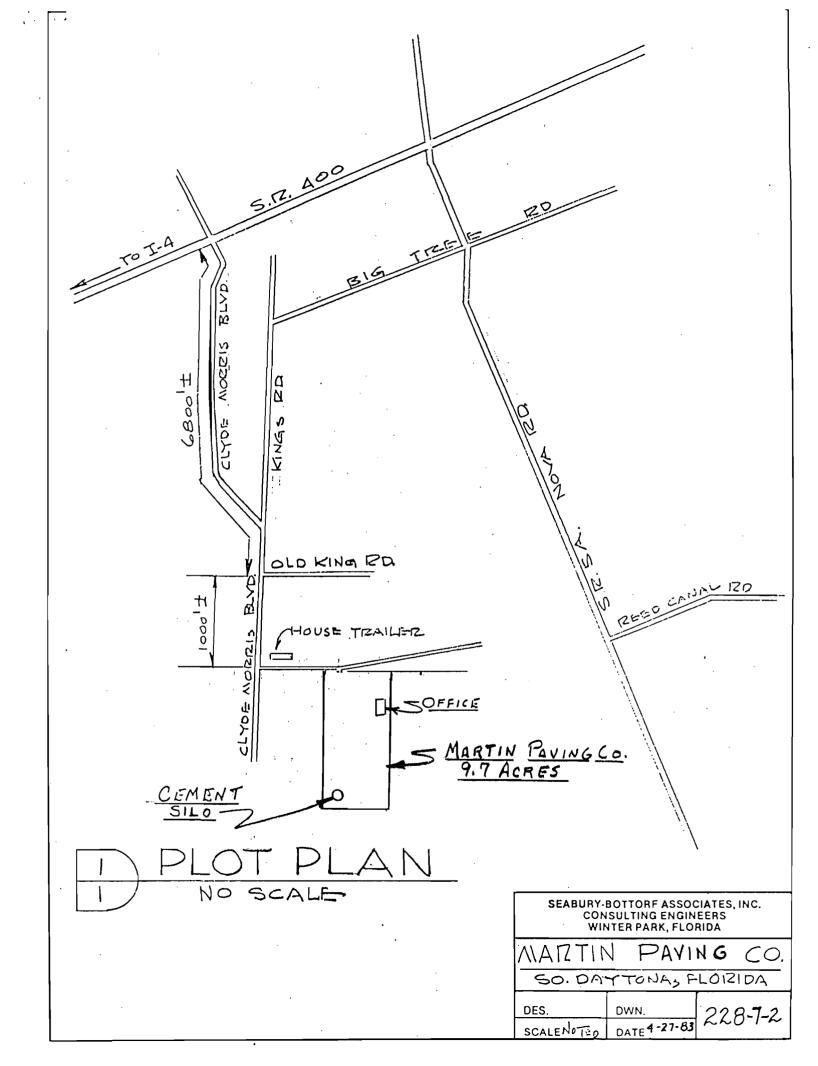
SEABURY-BOTTORF ASSOCIATES, INC.
CONSULTING ENGINEERS
ORLANDO, FLORIDA

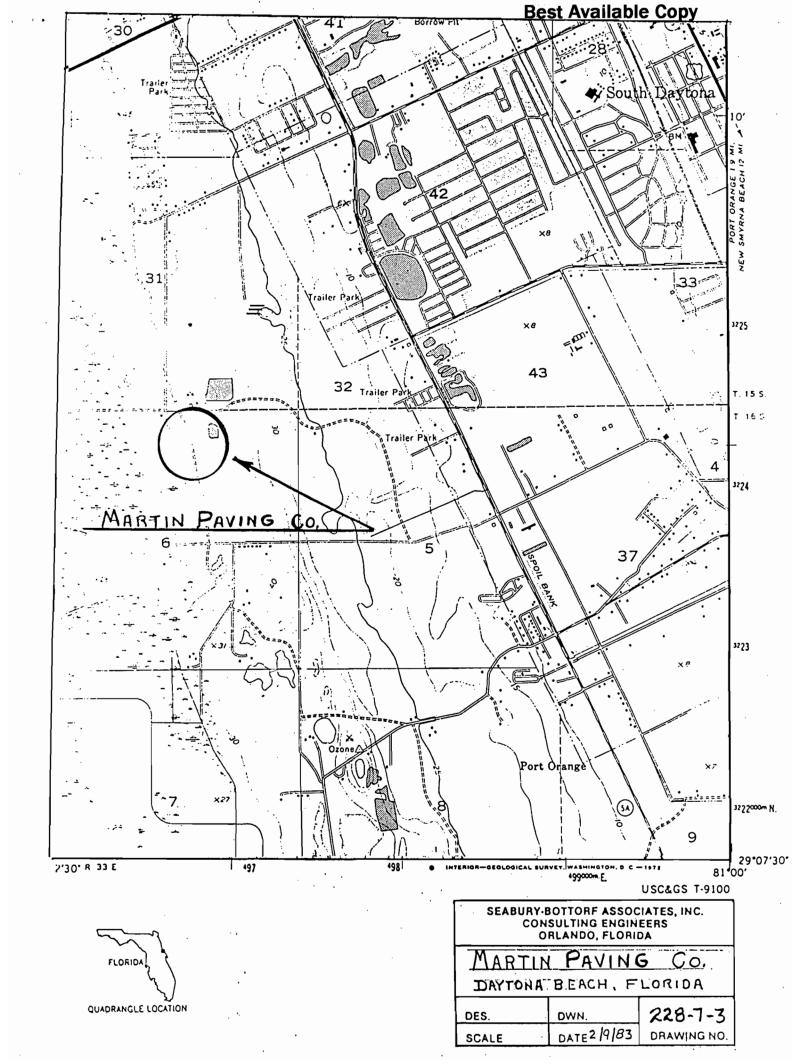
MARTIN PAVING CO.

DAYTONA BEACH, FLORIDA

DES.

DWN. J.S.
SCALE NONE DATE 4-27-83
DRAWING NO.







SEABURY-BOTTORF ASSOCIATES, INC.

CONSULTING ENGINEERS

ANALYTICAL LABORATORY

3702 SILVER STAR RD.

ORLANDO, FLORIDA, 32808

305-298-0846

April 27, 1983

Project No. 228-7

St. Johns River District Florida Dept. of Environmental Regulation 3319 Maguire Blvd., Suite 232 Orlando, Florida 32803

Subject:

Operating Hours

Cement Silo Baghouse for

Pneumatic Conveyor

Gentlemen:

For purposes of establishing hours of operation in order to determine potential emissions, the Management of Martin Paving Co. has agreed to accept a reduced and enforceable limit of 750 hours of annual operation for unloading bulk cement tank trucks.

Very truly yours,

John W. Seabury, P. E.

JWS/ac

ECHAN-CAL ELECTR-CAL