

PS Form 3811, Jan. 1979

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

1. The following service is requested (check one.)  
☒ Show to whom and date delivered.....¢  
☐ Show to whom, date and address of delivery.....¢  
☐ RESTRICTED DELIVERY  
 Show to whom and date delivered.....¢  
☐ RESTRICTED DELIVERY.  
 Show to whom, date, and address of delivery.\$

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:  
 V. L. Ashmore, Jr.  
 P. O. Box 2008  
 Greenville, SC 29602

3. ARTICLE DESCRIPTION:  
 REGISTERED NO. CERTIFIED NO. INSURED NO.  
 7682417

(Always obtain signature of addressee or agent)

I have received the article described above.  
 SIGNATURE ☐ Addressee ☐ Authorized agent  
 V. L. Ashmore, Jr.

4. DATE OF DELIVERY  
 8-21-82

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE:

PS Form 3800, Apr. 1976

☆ GPO : 1979-300-459

P16 7682417

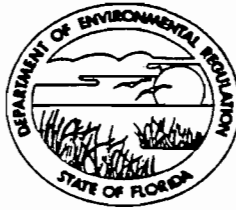
# RECEIPT FOR CERTIFIED MAIL

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

SENT TO  
 V. L. Ashmore, Jr.  
 STREET AND NO.  
 P. O. Box 2008  
 P.O., STATE AND ZIP CODE  
 Greenville, SC 29602

POSTAGE	\$
CERTIFIED FEE	¢
SPECIAL DELIVERY	¢
RESTRICTED DELIVERY	¢
SHOW TO WHOM AND DATE DELIVERED	¢
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES	\$
POSTMARK OR DATE	8/19/82

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



BOB GRAHAM  
GOVERNOR

Victoria J. Tschinkel  
SECRETARY

STATE OF FLORIDA  
**DEPARTMENT OF ENVIRONMENTAL REGULATION**

August 18, 1982

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

V. L. Ashmore, Jr.  
Sloan Construction Company  
Post Office Box 2008  
Greenville, South Carolina 29602

Dear Mr. Ashmore:

Enclosed is Permit Number AC 35-56301, dated August 17, 1982  
to Sloan Construction Company  
issued pursuant to Section 403, Florida Statutes.

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

Sincerely,

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

CHF/pa

Attachments

cc: John W. Seabury, Seabury-Bottorf Associates, Inc.  
Chuck Collins, DER St. Johns River District

Sloan Construction Company  
Asphalt Plant  
Lake County

The construction application has been reviewed by the Department. Public notice of the Department's intent to issue was published in the Orlando Sentinel Star on July 11, 1982. The preliminary determination and technical evaluation were available for public inspection at the DER's St. Johns River District and the Bureau of Air Quality Management.

The following comments were received from Mr. Chuck Collins with the DER St. Johns River District:

- 1) State in the permit the emission limit of 0.04 grains per dry standard cubic foot (gr/dscf) imposed by the NSPS.
- 2) State the maximum percent mix of recycled asphalt to be utilized so that the compliance tests will be conducted at a required and known utilization rate.

The Bureau agrees with the comments and will incorporate these comments in the final determination and the following "specific conditions" will be revised and shall read:

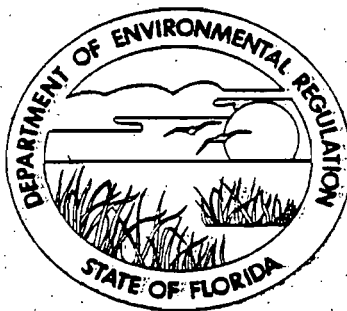
Specific Conditions:

2. Maximum utilization, total process input, and product rate shall not exceed 200 tons per hour asphalt material, consisting of a mixture of 40% recycled asphalt (maximum) and 60% virgin aggregate.
5. Maximum allowable pollutant emissions are:

Pollutant	Emission Limit	
	lbs/hr	TPY
Particulate Matter (PM)	0.04 gr/dscf, not to exceed 8.28	10.35
SO <sub>2</sub>	not to exceed 90.20	112.75
Visible Emissions (VE)	<20% opacity	

9. Before this construction permit expires, the source will be tested for PM, SO<sub>2</sub>, and VE using DER Methods 1 - 3 and 5, DER Method 6, and DER Method 9, respectively. Minimum sample volume shall be in accordance with NSPS, 40 CFR Part 60, Subpart I or Chapter 17-2.700, F.A.C. The compliance tests shall be at 90-100% of the permitted utilization rate of 200 tons per hour asphalt material (40% recycled asphalt, 60% virgin aggregate). DER's St. Johns River District Office shall be notified 30 days prior to compliance testing. Results of the compliance tests shall be submitted to the DER's St. Johns River District Office within 15 days after completion of the tests.

It is recommended that the construction permit be issued as drafted, with the above revisions incorporated.



**STATE OF FLORIDA  
DEPARTMENT OF  
ENVIRONMENTAL REGULATION**

**CONSTRUCTION  
PERMIT**

**NO.** AC 35-56301

SLOAN CONSTRUCTION COMPANY  
P.O. Box 2008  
GREENVILLE, SOUTH CAROLINA 29602

**DATE OF ISSUANCE**

AUGUST 12, 1982

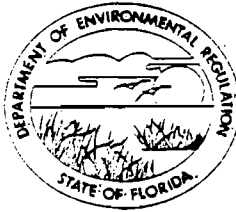
**DATE OF EXPIRATION**

DECEMBER 31, 1982

Terry Cole  
VICTORIA J. TSCHINKEL  
SECRETARY

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM  
GOVERNOR  
VICTORIA J. TSCHINKEL  
SECRETARY

APPLICANT: Sloan Construction Company  
P. O. Box 2008  
Greenville, South Carolina 29602

PERMIT/CERTIFICATION  
NO. AC 35-56301

COUNTY: Lake

PROJECT: Portable  
Asphalt Drum Mix  
with Fabric Filter  
Collector

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

For the construction/installation of a portable asphalt drum  
mix plant and fabric filter collector to be located about 6  
miles southeast of Clermont, Lake County, Florida. The UTM  
coordinates of the proposed source are Zone 17-431.659 km East  
and 3152.693 km North.

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

Attachment is as follows:

1. Application to Construct Air Pollution Sources, DER FORM  
17-1.122 (16).
2. Comments received from Mr. Chuck Collins, DER St. Johns  
River District, dated July 22, 1982.

PERMIT NO.: AC 35-56301  
APPLICANT: Sloan Construction Company

**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions", and as such are binding upon the permittee and enforceable pursuant to the authority of Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.
3. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information: (a) a description of and cause of non-compliance; and (b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue; and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.
4. As provided in subsection 403.087(6), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.
5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.
6. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.111, F.S.
7. In the case of an operation permit, permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or department rules.
8. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant, or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.
9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.
10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.
11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.
12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
13. This permit also constitutes:
  - ☐ Determination of Best Available Control Technology (BACT)
  - ☐ Determination of Prevention of Significant Deterioration (PSD)
  - ☐ Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

PERMIT NO.: AC 35-56301  
APPLICANT: Sloan Construction Company

SPECIFIC CONDITIONS:

1. Maximum annual hours of operation shall not exceed 2500 hours at a rate of 10 hours per day, 5 days per week, and 50 weeks per year.
2. Maximum utilization, total process input, and product rate shall not exceed 200 tons per hour asphalt material, consisting of a mixture of 40% recycled asphalt (maximum) and 60% virgin aggregate.
3. Maximum consumption of No. 5 New Fuel Oil, with a maximum content of 1.7% sulfur by weight, shall not exceed 12.0 barrels per hour (504 gallons per hour).

Note: "New Fuel Oil" means an oil which has been refined from crude oil and has not been used, and which may or may not contain additives.

4. Maximum heat input shall not exceed  $74.93 \times 10^6$  BTU per hour (MMBTU/hr).
5. Maximum allowable pollutant emissions are:

Pollutant	Emission Limit	
	lbs/hr	TPY
Particulate Matter	0.04 gr/dscf, not to exceed 8.28	10.35
SO <sub>2</sub>	not to exceed 90.20	112.75
Visible Emissions	<20% opacity	

6. No person shall cause, let, permit, suffer or allow the emissions of unconfined PM from any source whatsoever, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrially related activities such as loading, unloading, storing or handling, without taking reasonable precautions to prevent such emissions. Reasonable precautions may include, but shall not be limited to paving and maintenance of roads, parking areas and yards; application of water or chemicals to control emissions from such activities as grading roads, construction, and land clearing; application of asphalt, water,



PERMIT NO.: AC 35-56301  
APPLICANT: Sloan Construction Company

- oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar sources; and, enclosure or covering of conveyor systems.
7. Construction shall reasonably conform to the plans submitted in the application.
  8. The applicant shall report any delays in construction/ installation and completion of this source to DER's St. Johns River District Office.
  9. Before this construction permit expires, the source will be tested for PM, SO<sub>2</sub>, and VE using DER Methods 1-3 and 5, DER Method 6, and DER Method 9, respectively. Minimum sample volume shall be in accordance with NSPS, 40 CFR Part 60, Subpart I or Chapter 17-2.700, F.A.C. The compliance tests shall be at 90-100% of the permitted utilization rate of 200 tons per hour asphalt material (40% recycled asphalt, 60% virgin aggregate). DER's St. Johns River District Office shall be notified 30 days prior to compliance testing. Results of the compliance tests shall be submitted to the DER's St. Johns River District Office within 15 days after completion of the tests.
  10. Stack sampling facilities shall be in accordance with Chapter 17-2.700, F.A.C.
  11. The applicant will demonstrate compliance with the conditions of this construction permit and submit a complete application for an operating permit to the DER's St. Johns River District Office prior to 90 days before the expiration date of this permit. The applicant may continue to operate in compliance with the terms of this construction permit until its expiration date or until issuance of an operating permit.

Expiration Date: December 31, 1982

Issued this 17 day of Aug, 1982

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

           Pages Attached.

Terry Cole  
Signature

State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

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

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

RECEIVED

AUG 16 1982

Office of the Secretary

Attached please find one Air Construction Permit for which the applicant is Sloan Construction Company. Day 90, after which the permit would be issued by default, is September 22, 1982.

The Bureau recommends your approval and signature.

CF/pa

Attachment

## Check Sheet

Company Name:

Sloan Construction Company, Inc

Permit Number:

AC 35-563 01

PSD Number:

Permit Engineer:

### **Application:**

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

### **Cross References:**

- ☐
- ☐
- ☐

### **Intent:**

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

#### **Correspondence with:**

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

### **Final**

#### **Determination:**

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

### **Post Permit Correspondence:**

- ☐ Extensions/Amendments/Modifications
- ☐ Other

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM  
GOVERNOR

VICTORIA J. TSCHINKEL  
SECRETARY

September 28, 1982

Mr. V. L. Ashmore, Jr.  
Executive Vice President  
Sloan Construction Co., Inc.  
Box 2008  
Greenville, South Carolina 29602

Re: Construction Permit No. AC 35-56301 - Request for  
Modification

Dear Mr. Ashmore:

The Department is in receipt of your requests for modifications of your construction permit, No. AC 35-56301, issued August 17, 1982. The errors in the "application to construct an air pollution source", Section III.A. - raw materials used in the process, were incorrectly transcribed after initial calculations. This request is acceptable and the conditions are changed and added as follows:

Specific Conditions:

From: No. 2: Maximum utilization, total process input, and product rate shall not exceed 200 tons per hour asphalt material, consisting of a mixture of 40% recycled asphalt (maximum) and 60% virgin aggregate.

To: No. 2: Maximum utilization, total process input, and product rate shall not exceed 200 tons per hour asphalt material, consisting of a mixture of 75% recycled asphalt (maximum) and 25% virgin aggregate.

From: No. 9: Before this construction permit expires, the source will be tested for PM, SO<sub>2</sub>, and VE using DER Methods 1-3 and 5, DER Method 6, and DER Method 9, respectively. Minimum sample volume shall be in accordance with NSPS, 40 CFR Part 60, Subpart I or Chapter 17-2.700, F.A.C. The compliance tests shall be at 90-100% of the permitted

V. L. Ashmore, Jr.  
Page Two  
September 28, 1982

utilization rate of 200 tons per hour asphalt material (40% recycle asphalt, 60% virgin aggregate). DER's St. Johns River District Office shall be notified 30 days prior to compliance testing. Results of the compliance tests shall be submitted to the DER's St. Johns River District Office within 15 days after completion of the tests.

To: No. 9: Before this construction permit expires, the source will be tested for PM, SO<sub>2</sub>, and VE using DER Methods 1-3 and 5, DER Method 6, and DER Method 9, respectively. Minimum sample volume shall be in accordance with NSPS, 40 CFR Part 60, Subpart I or Chapter 17-2.700, F.A.C. The compliance tests shall be at 90-100% of the permitted utilization rate of 200 tons per hour asphalt material (75% recycled asphalt (maximum), 25% virgin aggregate). DER's St. Johns River District Office shall be notified 30 days prior to compliance testing. Results of the compliance tests shall be submitted to the DER's St. Johns River District Office within 15 days after completion of the tests.

Expiration date:

From: December 31, 1982


To: February 28, 1983

Attachments to be included are:

3. Paul F. Haigler, Jr. letter dated August 30, 1982.
4. V. L. Ashmore, Jr. letter dated September 8, 1982.

This letter and attachments must be attached to your permit, AC 35-56301, and shall become a part of that permit.

Sincerely,

  
Victoria J. Tschinkel  
Secretary

VJT/bmm

cc: Chuck Collins  
John W. Seabury

State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

## INTEROFFICE MEMORANDUM

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

TO: Victoria J. Tschinkel, Secretary  
FROM: *for* Steve Smallwood, *Secretary* Bureau Chief, BAQM  
DATE: September 24, 1982

RECEIVED  
SEP 27 1982

Office of the Secretary

SUBJ: Approval and signature of a modification to the  
construction permit, No. AC 35-56301, for Sloan  
Construction Company, issued August 17, 1982

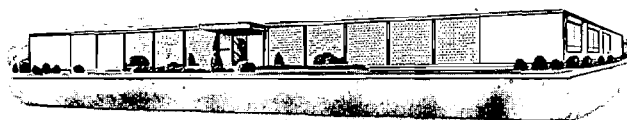
Enclosed is an amendment to the referenced construction  
permit that has been approved by the Bureau.

SS/bmm

Enclosure

# SLOAN CONSTRUCTION CO. INC.

BOX 2008 • GREENVILLE, SOUTH CAROLINA 29602 • (803) 271-9090



September 8, 1982

DER  
SEP 16 1982  
BAQM

*Bruce*  
Mr. C. H. Fancy, P. E.  
Deputy Chief  
Bureau of Air Quality Management  
Florida Department of Environmental Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32301

Re: Sloan Construction Company  
Portable Asphalt Plant  
Permit No. AC 35-56301

Dear Mr. Fancy:

It has been brought to our attention that certain information included with our application to construct the above plant was substantially in error.

On page 3 of 10, Section III, Item A., Raw Materials and Chemicals Used in your Process, if Applicable, - this item should be changed to reflect a 40% proportion of virgin material and a 60% proportion of recycled material - namely:

New aggregate -	148,800 lbs./hr.
Recycled aggregate -	240,000 lbs./hr.
Asphalt cement -	<u>11,200</u> lbs./hr.
Total -	400,000 lbs./hr.

Contaminates and points of reference on flow diagram remain as before.

In reference to the previously mentioned experimental run to produce a short piece of highway from 75% recycle material and 25% new material, we will postpone any involvement of Sloan Construction Company in this experiment until such time as the Florida Department of Transportation and the Florida Department of Environmental Regulation can mutually resolve the propriety of how, when, and where it should be done.

This experiment is not part of our contract and was contemplated only for the purpose of assisting the Florida Department of Transportation's search for more economical and better highways.

**SLOAN** CONSTRUCTION CO.  
INC.

Mr. C. H. Fancy, P. E.  
September 8, 1982  
Page 2

We are, however, very much interested in the fulfillment of our contract to produce paving material from 60% recycled aggregate which we know is not unique in Florida (copy of pertinent part of contract enclosed).

The question of V.O.C. emissions from drum mix asphalt plants as involved in recycle work has received considerable attention in a negative way from operations dissimilar to ours.

It is our understanding that the material used in the Midwest where there was evidence of V.O.C. emissions was from either cold mix asphalt or road mix asphalt which has a completely different asphalt binder than that used in a conventional hot mix drum plant. Road mix asphalt and cold mix asphalt use a cutback asphalt as the binder which contains either kerosene or naphtha or some other solvent. These solvents are used to delay the setup time in the asphalt mix. Asphalt cement which is used in hot mix operations contains little or none of the above solvents. Therefore, the chances of any V.O.C. emission is negligible.

We know that the plant we are requesting a permit for is superior to that equipment used in the Midwest project. Our plant was manufactured by Astec in Chattanooga, Tennessee and is constructed in a similar manner (although smaller) to another Astec plant which has the distinction of being the first drum mix asphalt plant permitted in the Los Angeles, California area since 1978. A summary of tests upon which Los Angeles accepted the unit is enclosed.

If V.O.C. testing is required, please advise us as to the regulation requiring this testing, the method of the testing, and the emission limits since we are unable to find this in any existing Florida Department of Environmental Regulation requirement.

Yours very truly,

SLOAN CONSTRUCTION COMPANY, INC.



V. L. Ashmore, Jr.  
Executive Vice President

VLAjr:rrc

Enclosure: (1) Copy of DOT contract.  
(2) Summary of Astec tests July 9, 1982.

cc: Seabury-Bottorf Associates, Inc.  
Mr. T. C. McSwain, Area Manager



SECTION 329 (Page 212). The following new Section is added after Section 320:

## SECTION 329

## RECYCLED ASPHALT CONCRETE MIX

## 329-1 Description.

The work specified in this Section consists of mixing material milled from the existing pavement with new aggregate (as required) and recycling agent (as required) in a suitable central asphalt plant, and placing the recycled mix to conform with lines, grade and dimensions shown on the plans or specified in the Special Provisions.

The requirements for plant and equipment for this pavement are specified in Section 320. General construction requirements for

- 8 -

JOB NO. 11040-3515

(including provisions for

all asphaltic concrete pavements (including provisions for determination of thickness of pavement to be paid for) are specified in Section 330.

329-2 Plant Laboratory.

The Contractor shall furnish a fully equipped plant laboratory and materials necessary for the Department to determine asphalt content and complete mechanical analysis of the Recycled Asphaltic Concrete.

329-3 Materials.

329-3.1 Recycled Aggregate: The recycled aggregate shall consist of a mixture of existing asphalt pavement, 100 percent passing the two-inch sieve.

329-3.2 Fine Aggregate: Fine aggregate used in combination with the recycled aggregate to meet final mix tolerances shall conform with 902-3.

329-3.3 Coarse Aggregate: Coarse aggregate used in combination with the recycled aggregate to meet final mix tolerances shall conform with Section 901.

329-3.4 Recycling Agent.

329-3.4.1 Asphalt Recycling Agent: The asphalt recycling agent shall be a soft asphalt cement or asphalt cement blended (as required) with a softening agent or flux oil conforming to the following:

TABLE I.

Absolute Viscosity, (V60) after TFOT (Thin Film Oven Test)	3:1 Ratio min.
Smoke Point	260 deg. F. min.
Flash Point	400 deg. F. min.
Solubility	97.5 percent

The asphalt recycling agent shall contain an approved anti-stripping agent.

Silicone shall be added to the asphalt recycling agent at the rate of 25 cubic centimeters of silicone mixed to each 5,000 gallons of asphalt recycling agent. If a dispersing fluid is used in conjunction with the silicones, the resultant mixture containing the full 25 cubic centimeters shall be added, in accordance with the manufacturer's recommendation.

The blending of silicone mixture with the asphalt recycling agent shall be done by the producer prior to shipment. The producer shall furnish a certificate indicating compliance with the

above requirements.

329-3.4.2 Emulsified Recycling Agent: The emulsified recycling agent shall meet the following requirements:

TABLE II

Storage Stability - 24 hr.	1.0 percent max.
Sieve Test	0.1 percent max.
Residue by Evaporation	65.0 percent min.

Residue from the emulsified recycling agent shall meet the requirements in Table I.

The emulsified recycling agent shall contain an approved anti-stripping agent.

Silicone shall be added to the residue prior to emulsifying at the rate of 25 cubic centimeters of silicone mixed to each 5,000 gallons of residue. If a dispersing fluid is used in conjunction with the silicones, the resultant mixture containing the full 25 cubic centimeters shall be added, in accordance with the manufacturer's recommendation.

The blending of silicone mixture with the residue shall be done by the producer prior to shipment. The producer shall furnish a certificate indicating compliance with the above requirements.

329-3.4.3 Sampling and Testing: The manufacturer shall submit samples of the recycling agents to the Office of Materials and Research for approval three weeks prior to starting the project. The Office of Materials and Research will select the best formulation suited for the project and reserves the right to request reasonable changes throughout the construction duration.

329-3.5 Composition of Existing Pavement: The composition of the existing pavement, as shown below, are average values based on test results from the roadway.

	Southbound	Northbound
Viscosity at 140 deg.F (Poises)	52,034	82,201
Penetration at 77 deg.F (0.1 mm)	21	17
Asphalt Content (%)	5.3	5.9
Gradation - Percent Passing		
1"	100	100
3/4"	90	100
1/2"	75	100
3/8"	70	99
No. 4	46	74
No. 10	32	44
No. 40	22	29
No. 80	9	12

No. 200	<u>4.3</u>	<u>6.6</u>
Average Pavement Thickness (Inches)	3.0	5.6
Total Thickness Evaluated (Inches)	2.5	2.5

The values shown are average values obtained from extraction tests. Individual test results are available from the Office of Materials and Research, Central Bituminous Laboratory in Gainesville. Variations will occur from degradation during the salvage operation.

329-3.6 Recycled Mixture: The recycled asphalt concrete mixture shall be a homogeneous mixture of recycled aggregate, new aggregate (as required), new bituminous material (as required) conforming to the requirements of these special provisions.

The material milled from the existing pavement shall constitute 0 percent to 60 percent of the total aggregate used in the job mix formula. However, if the Contractor elects not to use any milled material from the existing pavement in his design mix, he will be required to comply with the Quality Assurance (Hot Bituminous Mixtures) Specifications for design and construction requirements.

Sufficient salvaged material may not be obtained on this project to construct all of the Recycled Asphalt Concrete Mix at the maximum percentage indicated in the job mix formula.

The final mix design will be completed by the Office of Materials and Research Central Bituminous Laboratory. At least two weeks prior to the beginning of plant operations, the Contractor shall submit to the Office of Materials and Research in Gainesville a proposed blend and representative samples of materials. The Contractor will be required to add new aggregates meeting the requirements of Section 901 and 902 in order to meet the final gradation requirements of the Design Specification Range for the recycled asphalt concrete mixture.

In order to obtain a representative sample of the existing pavement for each final mix design, the Contractor shall mill the existing pavement to the full depth shown on the plans for pavement removal for a length of approximately 200 feet in an area approved by the Office of Materials and Research and stockpile at the plant site. The pavement removed for this purpose shall immediately be replaced with Type S Asphaltic Concrete. The quantity of material used for replacement shall be included in the pay quantity for Recycled Asphaltic Concrete.

The Contractor will be required to submit a request in writing to the State Materials and Research Engineer for any variance from the above outlined method of obtaining mix designs.

The Job Mix Formula for the recycled asphalt concrete mixture

shall be within the following specification range:

<u>Sieve Size</u>	<u>% Passing</u>
3/4"	100
1/2"	88-100
3/8"	75-93
No. 4	47-75
No. 10	31-53
No. 40	19-35
No. 80	7-21
No. 200	2-7

The recycled asphalt concrete mixture shall meet the following Marshall design criteria:

Minimum Marshall Stability - 1,000 lbs.  
Flow (0.01") - 8-14  
Minimum VMA - 14%  
Air Voids - 3-5%

The temperature of the mix will be established by the Contractor, subject to review by the Office of Materials and Research.

329-4 Acceptance Testing at the Plant: The established Job Mix Formula for the recycled asphalt concrete mixture shall be maintained within the following tolerance limits:

<u>Characteristic</u>	<u>Tolerance</u>
Asphalt Content	$\pm$ 0.7%
Passing 1/2 Inch Sieve	$\pm$ 8%
Passing No. 10 Sieve	$\pm$ 8%
Passing No. 200 Sieve	$\pm$ 3%

The Contractor shall be required to adjust his blend of materials (as required), to meet these tolerances.

The recycled asphalt concrete mixture will be sampled by the Department in accordance with FM 1-T168 at a minimum frequency of one per day. The percent bitumen content of the mixture will be determined in accordance with FM 1-T164. The percent passing the 1/2-inch, No. 10 and No. 200 sieves will be determined in accordance with FM 1-T030.

Results of a single extraction and sieve analysis shall not be used as the sole basis of acceptance or rejection of the mixture. Any variations from the Job Mix Formula in the gradation of the aggregates or in the asphalt content greater than the tolerances

shown shall be investigated immediately by the Contractor and the conditions causing the variation corrected. When two consecutive samples are outside the specified tolerance limits, the asphalt plant shall cease production until the matter can be satisfactorily resolved.

Samples of the recycled asphalt concrete mixture will be taken by the Department on a random basis in accordance with FM 1-T168 at a minimum frequency of one per 2,000 tons and the absolute viscosity will be determined on the recovered asphalt in accordance with FM 1-T202. The absolute viscosity at 140 degrees F shall be within a range of 3000 to 6000 poises. If the viscosity is determined to be out of the specified tolerance the Contractor shall adjust the recycling agent formulation or blend of salvaged material used in the mixture to bring the viscosity within tolerance.

The Department reserves the right to sample the mix and run any test at any time for verification purposes. The information will be used to determine if the Contractor is producing a mix representative of the approved mix design. When two consecutive samples taken for verification purposes fail to meet the required mix properties, the asphalt plant shall cease production until the matter can be satisfactorily resolved.

#### 329-5 Method of Measurement.

The quantity to be paid for under this Section shall be the weight, in tons, of Recycled Asphaltic Concrete as specified in 320-2.

The Contract price per ton for Recycled Asphaltic Concrete shall be based on a six percent asphalt content in the job mix formula. If the asphalt content in the job mix formula, as issued, increases or decreases from six percent, payment will be adjusted based on the invoice price of the recycling agent used plus ten percent.

In addition to the pay adjustment for varying asphalt content in the job mix formula as issued, pay adjustments for the quantity of recycling agent included in the payment for Recycled Asphaltic Concrete will be made based on the Asphalt Price Index as specified in Amendment 009 of the Specifications Package. Asphalt Recycling Agent will be based on the Asphalt Cement Index and the Emulsified Recycling Agent will be based on the Emulsified Asphalt Index. As an exception, the total adjustment will be made on the final estimate. The adjustment will be made on the actual amount of recycling agent used as determined by field measurement, excluding the quantity required for the adjustment to the six percent asphalt content in the job mix formula.

#### 329-6 Basis of Payment.

The quantity of Recycled Asphaltic Concrete shall be paid for at the contract unit price per ton. Such price and payment shall be full compensation for all work specified in this Section, except pay adjustments specified in 329-5 and tack coat, and shall include furnishing, hauling and placing materials (including the recycling agent), mixing, rolling and all labor and use of equipment and incidentals necessary to complete the work in accordance with these Specifications. The tack coat shall be paid for as provided in Section 300.

Payment shall be made under:

Item No. 300-1 - Bituminous Material - per gallon.

Item No. 329-70 - Recycled Asphaltic Concrete - per ton.

# RAMCON

## ENVIRONMENTAL CORPORATION

RAMCON BUILDING

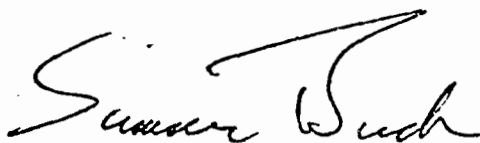
223 SCOTT STREET

MEMPHIS, TENNESSEE 38112

TELEPHONE 901 / 458-7000

TELEX 53-806

SOURCE SAMPLING  
for  
NO<sub>x</sub> and V.O.C.  
VULCAN MATERIALS  
CHATTANOOGA, TN.  
July 9, 1982



G. Summer Buck, III  
Vice President, Air Division

Sam Turner  
Environmental Technician



RAMCON

ENVIRONMENTAL CORPORATION

RAMCON BUILDING

223 SCOTT STREET

MEMPHIS, TENNESSEE 38112

TELEPHONE 901 / 458-7000

TELEX 53-806

July 19, 1982

Dr. Don Brook  
Astec Industries  
P. O. Box 2787  
Chattanooga, TN. 37401

Subject: NO<sub>x</sub> and V.O.C. Emissions Test - Vulcan Materials, Chattanooga, TN.

Dear Dr. Brook:

Enclosed are four copies of our report on V.O.C. and NO<sub>x</sub> emissions on the Vulcan plant in Chattanooga. The Vulcan plant is a sister plant to the one you wish to place in Los Angeles County, California. This testing was conducted using EPA methods 7 and 25 to determine if the NO<sub>x</sub> and V.O.C. emissions of a plant of this type could meet the rather stringent emissions requirements of the local control agency.

Thank you for your interest in RAMCON'S environmental services. We look forward to serving you again hopefully on another plant.

Sincerely,

RAMCON ENVIRONMENTAL CORPORATION



G. Summer Buck, III  
Vice President-Air Division

GSBIII/gb

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- II. TEST RESULTS
- III. TEST PROCEDURES
- IV. THE SOURCE
- V. EQUIPMENT
- VI. APPENDIX

LABORATORY PROCEDURES & RESULTS

CALCULATIONS

FIELD DATA

CALIBRATION

RAMCON PERSONNEL

## I.

### INTRODUCTION

On July 9, 1982, personnel from RAMCON Environmental Corporation (REC) conducted a source emissions test for V.O.C. and NO<sub>x</sub> emissions compliance at Vulcan Materials drum mix asphalt plant in Chattanooga, Tennessee. RAMCON personnel conducting the test were Summer Buck, team leader, Sam Turner, and Craig Jones. Summer Buck and Dr. Gareth Barnard were responsible for the laboratory analyses, including taring the beakers and filters and recording final data in laboratory record books. Custody of samples was limited to Mr. Buck and Dr. Barnard.

#### Purpose:

The purpose of the test was to determine if the rate of emissions from the Astec Model RFM 489 drum mix asphalt plant were below limits set by the Los Angeles County Health Department. The test was conducted for Astec, Inc. of Chattanooga, Tennessee.

## II.

### TEST RESULTS

Tables I and II summarize the test results. The allowable limitations are specified in Regulations XIII, New Source Review, South Coast Air Quality Management District. The Los Angeles Health Department allows emissions of V.O.C. up to 150 pounds per day, and also allows NO<sub>x</sub> emissions up to 150 pounds per day.

TGNMO SUMMARY DATA SHEET - TABLE 1

CLIENT RAMCON ENVIRONMENTAL PLANT VULCAN MATERIALS CITY CHATTANOOGA TN  
 EMISSION SOURCE ASPHALT PLANT-BAGHOUSE PROJECT NUMBER 200.001

RUN NO.	1	2	3	AVERAGE
SAMPLE DATE	7-9-82	7-9-82	7-9-82	
BAROMETRIC PRESSURE (mmg Hg)	749	749	748	
AMBIENT TEMPERATURE (°C)	32.0	32.0	33.5	
STACK GAS FLOW RATE, ACFM				
STACK GAS FLOW RATE, dscfm	/			
STACK GAS TEMPERATURE (°F)				
STACK GAS MOISTURE CONTENT (%)				

TANK NUMBER	6	14	19
TRAP NUMBER	25	228	51
SAMPLING RATE (cc/min)	81	96	105
SAMPLING TIME (min)	60	60	60

SAMPLE VOLUME (liters)	5.739	6.303
PPM CARBON (C <sub>1</sub> ) TANK	0	0
PPM CARBON (C <sub>1</sub> ) TRAP	90.7	232.9
TOTAL PPM CARBON (C <sub>1</sub> )	90.7	232.9
TOTAL CARBON, mg/liter	0.045	0.116
TOTAL CARBON, lb/dscf	0.28E-05	0.72E-05
EMISSION RATE, lb/hr C <sub>1</sub> *		

\*  $ER (lb/hr C_1) = \frac{lb}{dscf} \times dscfm \times \frac{60 min}{hr}$

TABLE II  
SUMMARY OF TEST RESULTS

<u>SAMPLE</u>	<u>NO<sub>x</sub></u> lbs/st <sup>3</sup> x 10 <sup>6</sup> <hr/> lbs per million
QA	34.6
2	10.8
3	3.3
4	6.9
6	3.7
7	14.2
8	2.5
9	2.2
12	16.9
13	3.0
14	1.5
32	4.0

On the basis of these test results the average emissions of NO<sub>x</sub> and V.O.C. and all test runs are within the limits set by the Los Angeles County Health Department.

### III. TEST PROCEDURES

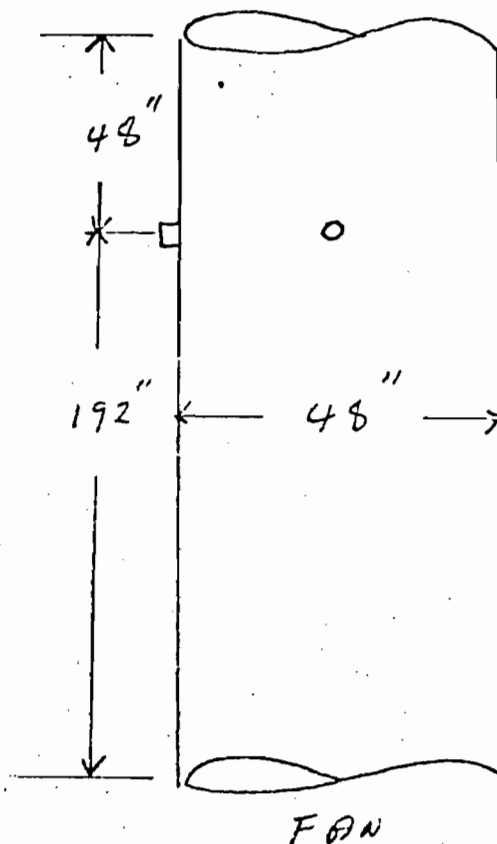
A. Method Used: Basically the source sampling was conducted in accordance with requirements of the U.S. Environmental Protection Agency as

set forth in 40 CFR 60, July 1, 1978 as amended.

B. Problems Encountered: Test run number one for  $\text{NO}_x$  and V.O.C. were discarded when after completion of the sampling it was discovered the plant had changed mix type midway through the sampling run. It was felt the results could not be compared with other runs.

C. Sampling Site: The emissions test was conducted after the baghouse on a 240" stack. The round stack has a 48" ID. Two sampling ports had been placed 90° apart 48" down. (.1 diameter) from the top of the stack and 192" up (4.0 diameters) from the transition above the fan housing. For the velocity traverse, thirty-six points were sampled, eighteen on each traverse.

<u>Points On</u> <u>A Diameter</u>	<u>6.75"</u> <u>Standoff</u>	<u>Probe</u> <u>Mark</u>
1		7.8
2		8.9
3		10.8
4		12.0
5		13.7
6		15.7
7		18.0
8		20.9
9		24.9
10		36.3
11		40.4
12		43.2
13		45.5
14		47.5
15		49.3
16		50.9
17		52.4
18		53.8



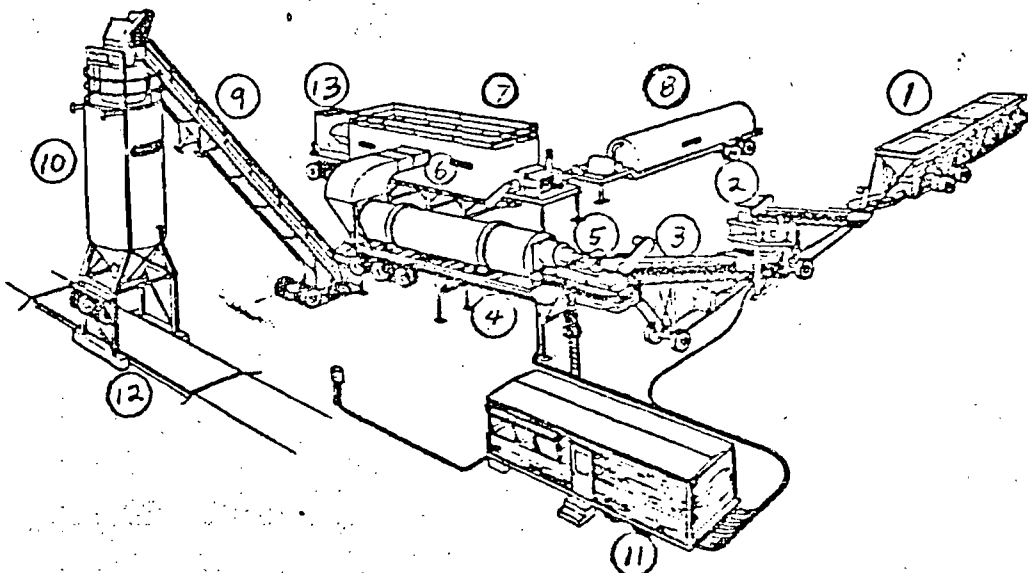
#### IV. THE SOURCE:

1. Aggregate Feed Bins
2. Preliminary Oversize Screen
3. Weigh Conveyor Belt
4. Rotary Drum Dryer/Mixer
5. Burner
6. Knock Out Baffleing
7. Baghouse
8. Liquid Asphalt Storage
9. Conveyor to Surge/Storage Bin(s)
10. Surge/Storage Bin
11. Control/Operators House
12. Truck Loading Scale
13. Stack



### ASTEC INDUSTRIES, INC.

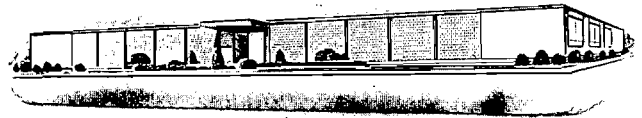
P.O. BOX 2787 • 4101 JEROME AVENUE • CHATTANOOGA, TN 37407 • 615-867-4210 • TWX 810-573-5260



## DRUM-MIXER PLANT

# SLOAN CONSTRUCTION CO. INC.

BOX 2008 • GREENVILLE, SOUTH CAROLINA 29602 • (803) 271-9090



August 30, 1982

Bill

Mr. C. H. Fancy, P. E., Deputy Chief  
Bureau of Air Quality Management  
Florida Department of Environmental Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32301

DER  
SEP 02 1982  
BAQM

Re: Sloan Construction Co.  
Lake County  
Portable Asphalt Plant  
AC 35-56301

Dear Mr. Fancy:

This is to confirm and summarize the recent telephone discussion between yourself and John Seabury, our Florida Engineer, in connection with the above permit.

Item 1. Limitation of (40% recycle material, 60% virgin material) as included in Specific Condition #9 will be a severe hardship inasmuch as the paving contract with the Department of Transportation (DOT) is based on (60% recycle material, 40% virgin material).

This is perhaps nothing more than a transposition of numbers, 40/60 being easily confused with 60/40.

Although the contract is based on 60% recycled material and 40% virgin material, it is not certain that this is the mixture which will give optimum results. Depending on several specific characteristics of the components, some latitude may be exercised by ourselves and the DOT inspectors to obtain the best possible product.

Over and above the nominal 60/40 mix, it is an objective of the DOT to experiment with a 75% recycle/25% virgin material mix at some time during this job. A test strip of pavement will be produced for observation during the life of the highway.



**SLOAN** CONSTRUCTION CO.  
INC.

Mr. C. H. Fancy, P. E., Deputy Chief  
August 30, 1982  
Page 2

Item 2. The submittal of Application for operating permit ninety (90) days in advance of 12/31/82 expiration date together with proof of compliance and 30 day advance notice of compliance test as specified in Specific Conditions #9 and #11 will scarcely be possible in the remaining time available.

It is our belief that the NSPS limit of .04 grains per cubic foot together with opacity standards will adequately protect the environment and that a great public benefit can result from lower cost highways by controlled experiments such as this.

Thank you very much for the interest taken in our informal telephone petition and the consideration being given to the situation.

Very truly yours,

SLOAN CONSTRUCTION COMPANY, INC.



Paul F. Haigler, Jr.  
General Superintendent

PFHjr:rrc

cc: Mr. T. C. McSwain, Area Manager  
Mr. Charles M. Collins, P. E., FDER-Orlando  
Mr. John W. Seabury

DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

*Bill Thomas*

For Routing To District Offices And/Or To Other Than The Addressee	
To: _____	Loctn.: _____
To: _____	Loctn.: _____
To: _____	Loctn.: _____
From: _____	Date: _____

ST. JOHNS RIVER DISTRICT

TO: Bill Thomas

OSJ-82-1821

THROUGH: A. Senkevich *AS*

THROUGH: T. Hunnicutt *JH*

FROM: C. Collins *CMC*

DATE: July 22, 1982

SUBJECT: Preliminary Determination  
Sloan Construction Company  
AC35-56301

DER  
JUL 26 1982  
BAQM

Our comments on the Preliminary Determination are as follows:

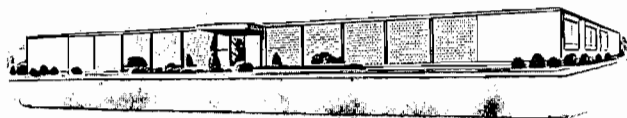
1. State in the permit the NSPS of .04 GDSF instead of 8.28 lbs./hr. The .04 GDSF is the standard and is what we need on the permit, should they violate the standard. The concentration could be as high as .08 GDSF and if the flow rates are in error, the total result would be less than 8.28 lbs./hr. This is very important, please change it. Say .04 GDSF with a maximum limit of 8.28 lbs./hr. but set forth the .04 standard.
2. The next item that is very critical, is the fact that Sloan plans to use recycled asphalt. The exact mix (i.e. the standard DOT-recycled mix) should be spelled out and tested at that mix. Many plants have failed the stack tests using recycled asphalt.
3. Of a general nature, we wish to comment on the fact that we believe the baghouse fabric material will be adversely affected by the sticky nature of the oils that will be released from the volatilization of the recycled asphalt. We feel that a scrubber would be better to control these particles. But there is another reason, only the exact mix should be spelled out in the permit.

CMC:es

cc: Clair Fancy  
Steve Smallwood

**SLOAN CONSTRUCTION CO.**  
INC.

BOX 2008 • GREENVILLE, SOUTH CAROLINA 29602 • (803) 271-9090



July 15, 1982

DER  
JUL 19 1982  
BAQM

State of Florida  
Department of Environmental Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32301-8241

Attention: Mr. W. A. Thomas, P.E.

Re: Asphalt Plant Construction  
Permit (AC 35-56301)

Gentlemen:

In accordance with Section 403.815, Florida Statutes, and Florida Administrative Code Rule 17-1.62, we have enclosed the affidavit of publication from the Sentinel Star Company, Orlando, Florida in regard to the referenced subject.

Yours very truly,

SLOAN CONSTRUCTION COMPANY, INC.

V. L. Ashmore, Exec. Vice Pres.

CC: TCM-AP16

VLA/ar  
Enclosure

**Sentinel Star Company**

Published Daily  
Orlando, Orange County, Florida

State of Florida ) ss.  
COUNTY OF ORANGE

Before the undersigned authority personally appeared \_\_\_\_\_

Nancy A. Puglia, who on oath says that

she is the Legal Advertising Representative of the Sentinel Star, a Daily newspaper published at Orlando, in Orange County, Florida; that the attached copy of advertisement, being a Notice of Proposed Agency Action in the matter of

Re: Permit for Portable Asphalt Drum Mix Plant

\_\_\_\_\_ in the \_\_\_\_\_ Court,

was published in said newspaper in the issues of \_\_\_\_\_

July 11, 1982

Affiant further says that the said Sentinel Star is a newspaper published at Orlando, in said Orange County, Florida, and that the said newspaper has heretofore been continuously published in said Orange County, Florida, each Week Day and has been entered as second-class mail matter at the post office in Orlando, in said Orange County, Florida for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he/she has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

Nancy A. Puglia

Sworn to and subscribed before me this 12th day

July, A.D., 19 82

Maomi C. Parks

Notary Public

Notary Public, State of Florida at Large  
My Commission Expires Jan. 21, 1984

FORM NO. AD-262

ADVERTISING CHARGE \$ 36.04

**NOTICE OF PROPOSED  
AGENCY ACTION**

The Department of Environmental Regulation gives notice of its intent to issue a permit to Sloan Construction Company, Inc., for construction/installation of a portable asphalt drum mix plant southeast of Clermont, Lake County, Florida. A determination of Best Available Control Technology (BACT) was not required.

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

The application, technical evaluation and departmental intent are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the following location:  
DER, Bureau of Air Quality Mgmt.  
2600 Blair Stone Road  
Tallahassee, FL 32301  
DER St. Johns River Dist.  
3319 Maguire Blvd.  
Suite 232  
Orlando, FL 32803

Comments on this action shall be submitted in writing to Bill Thomas of the Tallahassee office within thirty (30) days of this notice.  
CL-677 July 11, 1983

**Sentinel Star Company**

Published Daily  
Orlando, Orange County, Florida

ADVERTISING CHARGE \$ 36.04

State of Florida ) ss.  
COUNTY OF ORANGE

Before the undersigned authority personally appeared \_\_\_\_\_

Nancy A. Puglia \_\_\_\_\_, who on oath says that

she is the Legal Advertising Representative of the Sentinel Star, a Daily newspaper published at Orlando, in Orange County, Florida; that the attached copy of advertisement, being a Notice of Proposed Agency Action in the matter of Re: Permit for Portable Asphalt Drum Mix Plant

\_\_\_\_\_ in the \_\_\_\_\_ Court,

was published in said newspaper in the issues of \_\_\_\_\_

July 11, 1982

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Nancy A. Puglia

Sworn to and subscribed before me this 12th day

A.D., 19 82

Naomi C. Parks

Notary Public

Notary Public, State of Florida at Large  
My Commission Expires Jan. 21, 1984

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

DER, Bureau of Air Quality Mgmt.  
2600 Blair Stone Road  
Tallahassee, FL 32301  
DER St. Johns River Dist.  
3319 Maguire Blvd.  
Suite 232  
Orlando, FL 32803

Comments on this action shall be submitted in writing to Bill Thomas of the Tallahassee office within thirty (30) days of this notice.  
CL-677

July 11, 1983

DER

JUL 16 1982

BAQM

RECEIPT FOR CERTIFIED MAIL

**NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL**

**(See Reverse)**

SENT TO  
V. L. Ashmore, Jr.

STREET AND NO.

Box 2008

P.O., STATE AND ZIP CODE  
Greenville, SC 29602

POSTAGE

5

5

**CERTIFIED FEE**

**SPECIAL DELIVERY**

RESTRICTED DELIV

[illegible]

SHOW TO WHOM, D  
AND ADDRESS OF

SHOW TO WHOM AND DELIVERED TO:	
-----------------------------------	--

DELIVERY	SHOW TO WHOM
----------	--------------

ADDRESS OF DELIVER	RESTRICTED DELIVER
--------------------	--------------------

### TRADE AND FEES

5

PS Form 3800, Apr. 1976

**PS Form 3811, Jan. 1979**

**RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL.**

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

1. The following service is requested (check one.)

☒ Show to whom and date delivered..... c

☐ Show to whom, date and address of delivery. . . . \$☐ RESTRICTED DELIVERY

Show to whom and date delivered.....\$ \_\_\_\_¢

☐ RESTRICTED DELIVERY.

Show to whom, date, and address of delivery. \$ \_\_\_\_\_

(CONSULT POSTMASTER FOR FEES)

2 ARTICLE ADDRESSED TO:

V. L. Ashmore, Jr.

Sloan Construction Co., Inc.

Box 2008  
Greenville, South Carolina 29602

3. ARTICLE DESCRIPTION:

**CERTIFIED NO.**

**INSURED NO.**

7682435

(Always obtain signature of addressee or agent)

I have received the article described above.

SIGNATURE    ☐ Addressee    ☐ Authorized agent

4. 20 Feb  
DATE OF DELIVERY

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE:

☆ GPO : 1979-300-459

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

*Subj*

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



BOB GRAHAM  
GOVERNOR

VICTORIA J. TSCHINKEL  
SECRETARY

July 1, 1982

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

V. L. Ashmore, Jr.  
Executive Vice President  
Sloan Construction Co., Inc.  
Box 2008  
Greenville, South Carolina 29602

Dear Mr. Ashmore:

Pursuant to Section 403.815, Florida Statutes, and Florida Administrative Code Rule 17-1.62, you are required to publish (at your own expense) the attached notice. This notice should be published, one time only, in the legal ad section of the Orlando Sentinel, as soon as possible and no later than July 15, 1982.

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

Sincerely,

W. A. Thomas, P.E.  
Bureau of Air Quality  
Management

BT:ras

Attachment

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

M E M O R A N D U M

TO: V. L. Ashmore, Jr., Sloan Construction Company  
John W. Seabury, Seabury-Bottorf Associates, Inc.  
Chuck Collins, DER St. Johns River District

FROM: Bill Thomas, *BT* Bureau of Air Quality Management

DATE: July 2, 1982

SUBJECT: Preliminary Determination - Sloan Construction  
Company, Inc., (AC 35-56301)

Attached is one copy of the application, Technical Evaluation and Preliminary Determination, and proposed permit to Sloan Construction Company for construction/installation of a portable asphalt drum mix plant southeast of Clermont, Lake County, Florida. The public notice will appear in the Orlando Sentinel in the near future.

Please submit to me, in writing, any comments which you wish to have considered concerning this action.

BT/ras

Attachment



## NOTICE OF PROPOSED AGENCY ACTION

The Department of Environmental Regulation gives notice of its intent to issue a permit to Sloan Construction Company, Inc., for construction/installation of a portable asphalt drum mix plant southeast of Clermont, Lake County, Florida. A determination of Best Available Control Technology (BACT) was not required.

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

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

DER, Bureau of Air Quality Mgmt.  
2600 Blair Stone Road  
Tallahassee, FL 32301

DER St. Johns River Dist.  
3319 Maguire Blvd.  
Suite 232  
Orlando, FL 32803

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

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

28-5.15 Requests for Formal and Informal Proceedings

- (1) Requests for proceedings shall be made by petition to the agency involved. Each petition shall be printed typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double spaced and indented.
- (2) All petitions filed under these rules should contain:
  - (a) The name and address of each agency affected and each agency's file or identification number, if known;
  - (b) The name and address of the petitioner or petitioners;
  - (c) All disputed issues of material fact. If there are none, the petition must so indicate;
  - (d) A concise statement of the ultimate facts alleged, and the rules, regulations and constitutional provisions which entitle the petitioner to relief;
  - (e) A statement summarizing any informal action taken to resolve the issues, and the results of that action;
  - (f) A demand for the relief to which the petitioner deems himself entitled; and
  - (g) Such other information which the petitioner contends is material.

Technical Evaluation  
and  
Preliminary Determination

Sloan Construction Company, Inc.  
Clermont, Florida

Application Number:

AC 35-56301

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

## I. PROJECT DESCRIPTION

### A. Applicant

Sloan Construction Company, Inc.  
P. O. Box 2008  
Greenville, South Carolina 29602

### B. Project and Description

The applicant intends to construct/install a new 200 ton per hour portable asphalt drum mix plant.

The plant location will be approximately 6 miles southeast of Clermont, Lake County, Florida. The UTM coordinates are Zone 17-431.659 km East and 3152.693 km North.

### C. Process and Controls

Asphalt concrete is produced at this drum mix plant. Within the drum, recycled paving material is mixed with virgin aggregate and the liquid asphalt. No. 5 New Fuel Oil, with a maximum content of 1.7% sulfur by weight, will be fired to dry the aggregate and to provide heat to melt the recycled asphalt. The maximum utilization rate/total process input rate and product weight will be limited to 200 tons per hour of asphalt material.

Note: "New Fuel Oil" means an oil which has been refined from crude oil and has not been used, and which may or may not contain additives.

Control equipment will be a fabric filter collector and a pneumatic dust handling system for the removal/collection of particulate matter (PM).

## II. RULE APPLICABILITY

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

The proposed maximum pollutant emissions for particulate matter (PM) and SO<sub>2</sub> are 8.28 lbs/hr, 10.35 TPY and 90.2 lbs/hr, 112.75 TPY, respectively. The source would be classified as a new major source according to Chapter 17-2.100 (96), FAC, but not a major emitting facility according to Chapter 17-2.500 (2)(d) 2.a., FAC. Therefore, the source would be exempted from further PSD review and will be permitted in accordance with Chapters 17-2.520, 17-2.610, and 17-2.660, FAC. Chapter 17-2.660 (2)(a), FAC contains the New Source Performance Standard (NSPS) for Asphalt Concrete Plants, as adopted by reference from 40 CFR Part 60, Subpart I.

The maximum emission limit for PM is 0.04 grains per dry standard cubic foot (gr/dscf). Visible emissions shall be restricted to less than 20% opacity (Ringelmann Chart No. 1). Since there are no SO<sub>2</sub> emissions limiting standard for this type of source contained in the NSPS, 40 CFR Part 60, or Chapter 17-2, FAC, the SO<sub>2</sub> maximum emission limits shall be as requested by the applicant and based on AP-42 Table 1.3-1, Emission Factors for Fuel Oil Combustion.

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

#### A. Emission Limitations

The regulated pollutant emissions from this source are PM, SO<sub>2</sub>, and visible emissions (VE) in accordance with Chapter 17-2.660(2)(a), FAC, and in the case of SO<sub>2</sub>, as requested by the applicant and acceptable by the Department.

Pollutant	Emission Limit	
	lbs/hr	TPY
PM	8.28	10.35
SO <sub>2</sub>	90.20	112.75
VE	<20% opacity	

The permitted emissions are in compliance with all applicable requirements of Chapter 17-2, FAC, including the adopted NSPS requirements of 40 CFR Part 60, Subpart I.

#### B. Air Quality Impacts

From a technical and modelling review of the application, the Department has determined that the construction and operation of this source will not have any impact on Florida's ambient air quality standards.

#### IV. CONCLUSION

The permitted emissions from this source, with its maximum utilization and product rate of 200 tons per hour of asphalt material, will not cause or contribute to any violation of Florida's ambient air quality standards.

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

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



BOB GRAHAM  
GOVERNOR  
VICTORIA J. TSCHINKEL  
SECRETARY

APPLICANT:

Sloan Construction Co., Inc.  
Box 2008  
Greenville, South Carolina 29602

PERMIT/CERTIFICATION  
NO. AC 35-56301

COUNTY: Lake

PROJECT:

Portable Asphalt Drum  
Mix Plant with Fabric  
Filter Collector

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

For the construction/installation of a portable asphalt drum mix plant and fabric filter collector to be located about 6 miles southeast of Clermont, Lake County, Florida. The UTM coordinates of the proposed source are Zone 17-431.659 km East and 3152.693 km North.

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

Attachment is as follows:

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

PERMIT NO.: AC 35-56301

APPLICANT: Sloan Construction Co., Inc.

**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions", and as such are binding upon the permittee and enforceable pursuant to the authority of Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.

3. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information: (a) a description of and cause of non-compliance; and (b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

4. As provided in subsection 403.087(6), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

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

6. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.111, F.S.

7. In the case of an operation permit, permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or department rules.

8. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant, or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.

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

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

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

12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.

13. This permit also constitutes:

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



PERMIT NO.: AC 35-56301  
APPLICANT: Sloan Construction Co., Inc.

SPECIFIC CONDITIONS:

1. Maximum annual hours of operation shall not exceed 2500 hours at a rate of 10 hours per day, 5 days per week, and 50 weeks per year.
2. Maximum utilization, total process input, and product rate shall not exceed 200 tons per hour asphalt material.
3. Maximum consumption of No. 5 New Fuel Oil, with a maximum contents of 1.7% sulfur by weight, shall not exceed 12.0 barrels per hour (504 gallons per hour).

Note: "New Fuel Oil" means an oil which has been refined from crude oil and has not been used, and which may or may not contain additives.

4. Maximum heat input shall not exceed  $74.93 \times 10^6$  BTU per hour (MMBTU/hr).
5. Maximum allowable pollutant emissions are:

<u>Pollutant</u>	<u>Emission Limit</u>	
	<u>lbs/hr</u>	<u>TPY</u>
Particulate Matter	8.28	10.35
SO <sub>2</sub>	90.20	112.75
Visible Emissions	<20% opacity	

6. No person shall cause, let, permit, suffer or allow the emissions of unconfined PM from any source whatsoever, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrially related activities such as loading, unloading, storing or handling, without taking reasonable precautions to prevent such emissions. Reasonable precautions may include, but shall not be limited to paving and maintenance of roads, parking areas and yards; application of water or chemicals to control emissions from such activities as grading roads, construction, and land clearing; application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar sources; and, enclosure or covering of conveyor systems.

# Best Available Copy

PERMIT NO.: AC 35-56301  
APPLICANT: Sloan Construction Co., Inc.

7. Construction shall reasonably conform to the plans submitted in the application.
8. The applicant shall report any delays in construction/ installation and completion of this source to DER's St. Johns River District Office.
9. Before this construction permit expires, the source will be tested for PM, SO<sub>2</sub>, and VE using DER Methods 1-3 and 5, DER Method 6, and DER Method 9, respectively. Minimum sample volume shall be in accordance with NSPS, 40 CFR Part 60, Subpart I or Chapter 17-2.700, F.A.C. The compliance tests shall be at 90-100% of the permitted utilization rate of 200 tons per hour asphalt material. DER's St. Johns River District Office shall be notified 30 days prior to compliance testing. Results of the compliance tests shall be submitted to the DER's St. Johns River District Office within 15 days after completion of the tests.
10. Stack sampling facilities shall be in accordance with Chapter 17-2.700, F.A.C.
11. The applicant will demonstrate compliance with the conditions of this construction permit and submit a complete application for an operating permit to the DER's St. Johns River District Office prior to 90 days before the expiration date of this permit. The applicant may continue to operate in compliance with the terms of this construction permit until its expiration date or until issuance of an operating permit.

Expiration Date: December 31, 1982

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

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

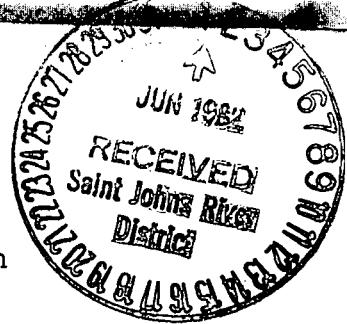
\_\_\_\_\_  
Signature

# SLOAN CONSTRUCTION CO. INC.

BOX 2008 • GREENVILLE, SOUTH CAROLINA 29602 • (803) 271-9090



May 26, 1982



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

Gentlemen:

Enclosed is the original and three (3) copies of DER Form 17-1.122(16) "Application to Construct Air Pollution Sources".

Also enclosed is our check in the amount of \$20.00 for filing fee. If you require any further information, please contact us immediately.

Very truly yours,

SLOAN CONSTRUCTION CO., INC.

V. L. Ashmore, Jr.  
Executive Vice President

VLAjr:rrc

Enclosure

cc: Seabury-Bottorf Associates, Inc.  
Mr. Frank Miller, Project Manager

DER

JUN 7 1982

BAQM

DER PERMIT APPLICATION TRACKING SYSTEM MASTER RECORD

FILE#000000056301 COE# DER PROCESSOR:J ROOKS DER OFFICE:ORL  
 FILE NAME:SLOAN CONSTRUCTION CO INC DATE FIRST REC: 06/01/82 APPLICATION TYPE:AC  
 APPL NAME:SLOAN CONSTRUCTION CO INC APPL PHONE:(803)271-9090 PROJECT COUNTY:35  
 ADDR:BOX 2008 CITY:GREENVILLE ST:SCZIP:29602  
 AGNT NAME:SEABURY-BOTTORF & ASSOC. AGNT PHONE:(305)298-0846  
 ADDR:3702 SILVER STAR ROAD CITY:ORLANDO ST:FLZIP:32808

ADDITIONAL INFO REQ: / / / / / REC: / / / / /  
 APPL COMPLETE DATE: / / COMMENTS NEC:Y DATE REQ: / / DATE REC: / /  
 LETTER OF INTENT NEC:Y DATE WHEN INTENT ISSUED: / / WAIVER DATE: / /

HEARING REQUEST DATES: / / / / /  
 HEARING WITHDRAWN/DENIED/ORDER -- DATES: / / / / /  
 HEARING ORDER OR FINAL ACTION DUE DATE: / / MANUAL TRACKING DESIRED:N  
 THIS RECORD HAS BEEN SUCESSFULLY ADDED 06/02/82 11:21:20  
 FEE PD DATE#1:06/01/82 \$0020 RECEIPT#00062553 REFUND DATE: / / REFUND \$  
 FEE PD DATE#2: / / \$ RECEIPT# REFUND DATE: / / REFUND \$  
 APPL:ACTIVE/INACTIVE/DENIED/WITHDRAWN/TRANSFERRED/EXEMPT/ISSUED:AC DATE:06/01/82  
 REMARKS:ASPHALT PLANT, PORTABLE DRUM MIX PLANT W/FABRIC FILTER COLLECTOR & #5  
 FUEL OIL BURNERS;

DER

JUN 7 1982

BAQM

STATE OF FLORIDA  
 DEPARTMENT OF ENVIRONMENTAL REGULATION

Nº 62553

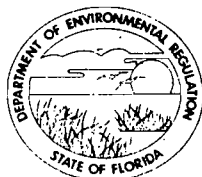
RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Sloan Construction Co. Date June 1, 1982  
 Address Box 2008, Greenville, SC 29602 Dollars \$ 20.00  
 Applicant Name & Address Same  
 Source of Revenue asphalt plant  
 Revenue Code 9101 012 70095 Application Number AC35-56301

By Indy Cavelin

PAID  
JUN 01 1982

SAINT JOHNS  
RIVER DISTRICT



DER

JUN 7 1982

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



SOURCE TYPE: Asphalt Plant ☒ New<sup>1</sup> ☐ Existing<sup>1</sup>  
APPLICATION TYPE: ☒ Construction ☐ Operation ☐ Modification  
COMPANY NAME: Sloan Construction Co., Inc. COUNTY: Lake  
Identify the specific emission point source(s) addressed in this application (i.e. Lime Kiln No. 4 with Venturi Scrubber; Peeking Unit No. 2, Gas Fired) Portable Drum Mix Plant with Fabric Filter Collector & #5 Fuel Oil Burners  
SOURCE LOCATION: Street About 6 miles S.E. of Clermont, Florida City Clermont  
UTM: East 17431658.5 North 3152893  
Latitude 28 ° 30 ' 59 "N Longitude 82 ° 41 ' 54 "W  
APPLICANT NAME AND TITLE: V. L. Ashmore, Jr., Executive Vice President  
APPLICANT ADDRESS: Box 2008, Greenville, South Carolina 29602

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

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

\*Attach letter of authorization

Signed: V. L. Ashmore, Jr.  
V. L. Ashmore, Jr., Executive Vice President  
Name and Title (Please Type)  
Date: \_\_\_\_\_ Telephone No. (803) 271-9090

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

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to  
be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the  
permit application. There is reasonable assurance, in my professional judgment, that the pollution control facilities, when prop-  
erly 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 appli-  
cant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution  
sources.

(Affix Seal)



Signed: John W. Seabury  
John W. Seabury  
Name (Please Type)  
Seabury-Bottorf Associates, Inc.  
Company Name (Please Type)  
3702 Silver Star Rd., Orlando, FL 32808  
Mailing Address (Please Type)  
Date: May 20, 1982 Telephone No. (305) 293-0846

Florida Registration No. \_\_\_\_\_

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

## SECTION II: GENERAL PROJECT INFORMATION

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

This is an application to construct a portable drum mix asphalt plant for recycling paving material with virgin aggregate for Florida DOT projects in Lake County. A fabric filter collector and pneumatic dust handling system will keep particulate emissions within allowable limits. See Supplement Page 2.

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

Start of Construction June 1, 1982 Completion of Construction June 30, 1982

- 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.)

Astec Baghouse Model No. PSFS-41	\$140,000
Scavenger Dust Conveying System	10,000
Extension of drum for emission control	25,000

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

None

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

- F. Normal equipment operating time: hrs/day 10 ; days/wk 5 ; wks/yr 50 ; if power plant, hrs/yr \_\_\_\_\_ ; if seasonal, describe: This is a temporary installation for the purpose of reconstruction of various roads under contract with Florida DOT in Lake County operation is non-seasonal but will vary according to project requirements and weather.

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

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

No

a. If yes, has "offset" been applied?

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

c. If yes, list non-attainment pollutants.

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

No

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

Yes\*

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

Yes

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

No

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

\*See Supplement Page 2d.

## SECTION II: GENERAL PROJECT INFORMATION

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

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

No

- a. If yes, has "offset" been applied?

- b. If yes, has "Lowest Achievable Emission Rate" been applied?

- c. If yes, list non-attainment pollutants.

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

No

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

Yes\*

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

Yes

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

No

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

\*See Supplement Page 2d.

### 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		
New Aggregate	Particulate	.245	223,200	①
Recycled Aggregate	None		160,000	②
Asphalt	None		16,800	③
			400,000	⑤

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

1. Total Process Input Rate (lbs/hr): 400,000

2. Product Weight (lbs/hr): 400,000

**C. Airborne Contaminants Emitted:**

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission <sup>2</sup> Rate per Ch. 17-2, F.A.C.	Allowable <sup>3</sup> Emission lbs/hr	Potential Emission <sup>4</sup>		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/hr	T/yr	
Particulate	8.28	10.35	.04 Gr./DSCF 19 g/m <sup>3</sup> Avg. Annual 37 g/m <sup>3</sup> 24 Hr. Max.	8.28	980 *	1225	④
SO <sub>2</sub>	90.2	112.75	29 g/m <sup>3</sup> Avg. Annual 91 g/m <sup>3</sup> 24 Hr. Max.	90.2	90.2 **	112.75	④

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

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles <sup>5</sup> Size Collected (in microns)	Basis for Efficiency (Sec. V, It <sup>5</sup> )
Astec Model PSFS-41	Particulate	99%	Above 0.8 microns	Air to Cloth Ratio 6:1 at 41,000 ACFM 14 Oz. Nomex Bags

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

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

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

\*From AP-42, Supplement 8, Table 8.1-2

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

\*\*From AP-42, Table 1-5, Rev. 72

<sup>5</sup>If Applicable



E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
#5 Fuel Oil	8.05	12.0	75.6

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

Fuel Analysis:

Percent Sulfur: 1.7 Percent Ash: .05  
 Density: 7.95 lbs/gal Typical Percent Nitrogen: 1  
 Heat Capacity: 18,700 BTU/lb 148,500 BTU/gal  
 Other Fuel Contaminants (which may cause air pollution): Not applicable

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

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

All solid waste is collected and returned to process - no liquid waste.

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

Stack Height: 22 Ft. ft. Stack Diameter: 4 ft.  
 Gas Flow Rate: 41,000 ACFM Gas Exit Temperature: 290 °F.  
 Water Vapor Content: 15 % Velocity: 66 FPS

SECTION IV: INCINERATOR INFORMATION

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

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

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

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

Manufacturer \_\_\_\_\_

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

E. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	
#5 Fuel Oil	8.05	12.0	75.6

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

Fuel Analysis:

Percent Sulfur: 1.7 Percent Ash: .05  
 Density: 7.95 lbs/gal Typical Percent Nitrogen: 1  
 Heat Capacity: 18,700 BTU/lb 148,500 BTU/gal  
 Other Fuel Contaminants (which may cause air pollution): Not applicable

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

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

All solid waste is collected and returned to process - no liquid waste.

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

Stack Height: 22 Ft. ft. Stack Diameter: 4 ft.  
 Gas Flow Rate: 41,000 ACFM Gas Exit Temperature: 290 °F.  
 Water Vapor Content: 15 % Velocity: 36 FPS

SECTION IV: INCINERATOR INFORMATION

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

Description of Waste  

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

Approximate Number of Hours of Operation per day   days/week  

Manufacturer  

Date Constructed   Model No.

	Volume (ft) <sup>3</sup>	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: \_\_\_\_\_ ft. Stack Diameter \_\_\_\_\_ Stack Temp. \_\_\_\_\_

Gas Flow Rate: \_\_\_\_\_ ACFM \_\_\_\_\_ DSCFM\* Velocity \_\_\_\_\_ FPS

\*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device: ☐ Cyclone ☐ Wet Scrubber ☐ Afterburner ☐ Other (specify) \_\_\_\_\_

Brief description of operating characteristics of control devices: \_\_\_\_\_

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

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## SECTION V: SUPPLEMENTAL REQUIREMENTS

Please provide the following supplements where required for this application.

1. Total process input rate and product weight — show derivation.
2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).
4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, etc.).
5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3, and 5 should be consistent: actual emissions = potential (1-efficiency).
6. An 8½" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained. See Drawing No. 372-SK1.
7. An 8½" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map). See Drawing No. 372-SK2.
8. An 8½" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram. See Drawing No. 372-SK3.

9. An application fee of \$20, unless exempted by Section 17-4.05(3), F.A.C. The check should be made payable to the Department of Environmental Regulation.
10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

## SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

- 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

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- B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy) ☐ Yes ☐ No

Contaminant

Rate or Concentration

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

Contaminant

Rate or Concentration

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

1. Control Device/System:

2. Operating Principles:

3. Efficiency:\*

5. Useful Life:

7. Energy:

9. Emissions:

4. Capital Costs:

6. Operating Costs:

8. Maintenance Cost:

Contaminant

Rate or Concentration

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\*Explain method of determining D 3 above.

9. An application fee of \$20, unless exempted by Section 17-4.05(3), F.A.C. The check should be made payable to the Department of Environmental Regulation.
10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

### SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY

- 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

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- B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy) ☐ Yes ☐ No

Contaminant

Rate or Concentration

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

Contaminant

Rate or Concentration

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

1. Control Device/System:

2. Operating Principles:

3. Efficiency:\*

5. Useful Life:

7. Energy:

9. Emissions:

4. Capital Costs:

6. Operating Costs:

8. Maintenance Cost:

Contaminant

Rate or Concentration

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\*Explain method of determining D 3 above.

- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space and operate within proposed levels:

4.

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

F. Describe the control technology selected:

- 1. Control Device:
- 2. Efficiency\*:
- 3. Capital Cost:
- 4. Life:
- 5. Operating Cost:
- 6. Energy:
- 7. Maintenance Cost:
- 8. Manufacturer:
- 9. Other locations where employed on similar processes:

a.

- (1) Company:
- (2) Mailing Address:
- (3) City:
- (4) State:
- (5) Environmental Manager:
- (6) Telephone No.:

\*Explain method of determining efficiency above.

(7) Emissions\*:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

(8) Process Rate\*:

b.

- (1) Company:
- (2) Mailing Address:
- (3) City:
- (4) State:

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

10. Stack Parameters

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

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

1.

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

2.

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

\*Explain method of determining efficiency.

\*\*Energy to be reported in units of electrical power — KWH design rate.

3.

- a. Control Device:
- b. Operating Principles:
- c. Efficiency\*:
- d. Capital Cost:
- e. Life:
- f. Operating Cost:
- g. Energy:
- h. Maintenance Cost:

\*Explain method of determining efficiency above.

- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space and operate within proposed levels:

4.

- a. Control Device
- b. Operating Principles:

- c. Efficiency\*:
- d. Capital Cost:
- e. Life:
- f. Operating Cost:
- g. Energy:
- h. Maintenance Cost:

- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

F. Describe the control technology selected:

- 1. Control Device:
- 2. Efficiency\*:
- 3. Capital Cost:
- 4. Life:
- 5. Operating Cost:
- 6. Energy:
- 7. Maintenance Cost:
- 8. Manufacturer:
- 9. Other locations where employed on similar processes:

a.

- (1) Company:
- (2) Mailing Address:
- (3) City:
- (4) State:
- (5) Environmental Manager:
- (6) Telephone No.:

\*Explain method of determining efficiency above.

(7) Emissions\*:

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

(8) Process Rate\*:

b.

- (1) Company:
- (2) Mailing Address:
- (3) City:
- (4) State:

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



(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions\*:

Contaminant	Rate or Concentration

(8) Process Rate\*:

10. Reason for selection and description of systems:

**ATTACHMENTS:**

1. Supplement Pages 2, 2a, 2b, 2c, 2d.
2. Supplement to Section V, 2 pages.
3. Drawings No. 372-SK1, SK2, and SK3 dated 5/20/82.
4. Copy of Letter dated 9/18/79 from Jacob D. Varn (DER) to John W. Seabury.
5. Check in amount of \$20.00 payable to the Florida Dept. of Environmental Regulation.

\*Applicant 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

### A. Company Monitored Data

1. \_\_\_\_\_ no sites \_\_\_\_\_ TSP \_\_\_\_\_ ( ) SO<sub>2</sub>\* \_\_\_\_\_ 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:**

## 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

$$\text{SO}_2: \quad \underline{\hspace{10em}} \text{ grams/sec}$$

#### E. Emission Data Used in Modeling

Attach list of emission sources. Emission data required is source name, description on 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.**

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

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.

## SECTION VII – PREVENTION OF SIGNIFICANT DETERIORATION

### A. Company Monitored Data

1. \_\_\_\_\_ no sites \_\_\_\_\_ TSP \_\_\_\_\_ ( ) SO<sub>2</sub>\* \_\_\_\_\_ 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.

### 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 <sub>2</sub>	_____ grams/sec

### E. Emission Data Used in Modeling

Attach list of emission sources. Emission data required is source name, description on 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.

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

### 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.

SLOAN CONSTRUCTION CO., INC.

Lake County

This plant is to be similar to another plant by the same manufacturer (Astec) and operated by the same Owner in Broward County which proved very successful in mixing reclaimed pavement material with new material to provide a lower cost product for resurfacing of highways.

By using a somewhat longer drum than has been customary in the past and by an ingenious method of inserting the "old asphalt" at a safe distance from the flame end of dryer, the recycle material is melted and mingled with the new asphalt and aggregate without danger of ignition.

Past experience by the manufacturer (Astec Industries, Inc., Chattanooga) indicates that plants operating on a mixture of recycled and new material are as clean as or cleaner than plants utilizing only virgin material.

This was indeed the case in the instance of the Broward installation: Copy\* of Pages 1 and 2 of report of a particulate test, 8/25/81, summarizing results is included.

An Astec information sheet on drum conversions is included (see Supplement Page 2a).

\*Description and summary of test included - See Supplement Pages 2b & 2c.

# REGULAR MIX AND RECYCLE MIX FORMULAS WITH YOUR PRESENT DRUM MIXER

## You Can Have A Recycling Plant

Turn your drum mixer into a recycling plant with an ASTEC Dual Entry Recycling Kit. The experimental state of blending reclaimed asphalt is fast disappearing. Recycling has become a reality.

With an ASTEC Dual Feed System your drum mixer will have an entry for new and for old materials. The reclaimed material enters the drum through a center entry system at a point where the showering of virgin material shields the old materials from the burner flame and a blending of the two materials is most efficient.

The ASTEC Dual Entry System can be easily added to your drum. Use it for a recycling job or close it off for your regular asphalt mixes.

You can switch from one system to



This internal view of a drum mixer pictures an installation of the exclusive ASTEC Distribution Chutes. These half-round chutes provide a smooth uninterrupted flow of recycle material into the mixing process. The design eliminates the possibility of a roll back of material.

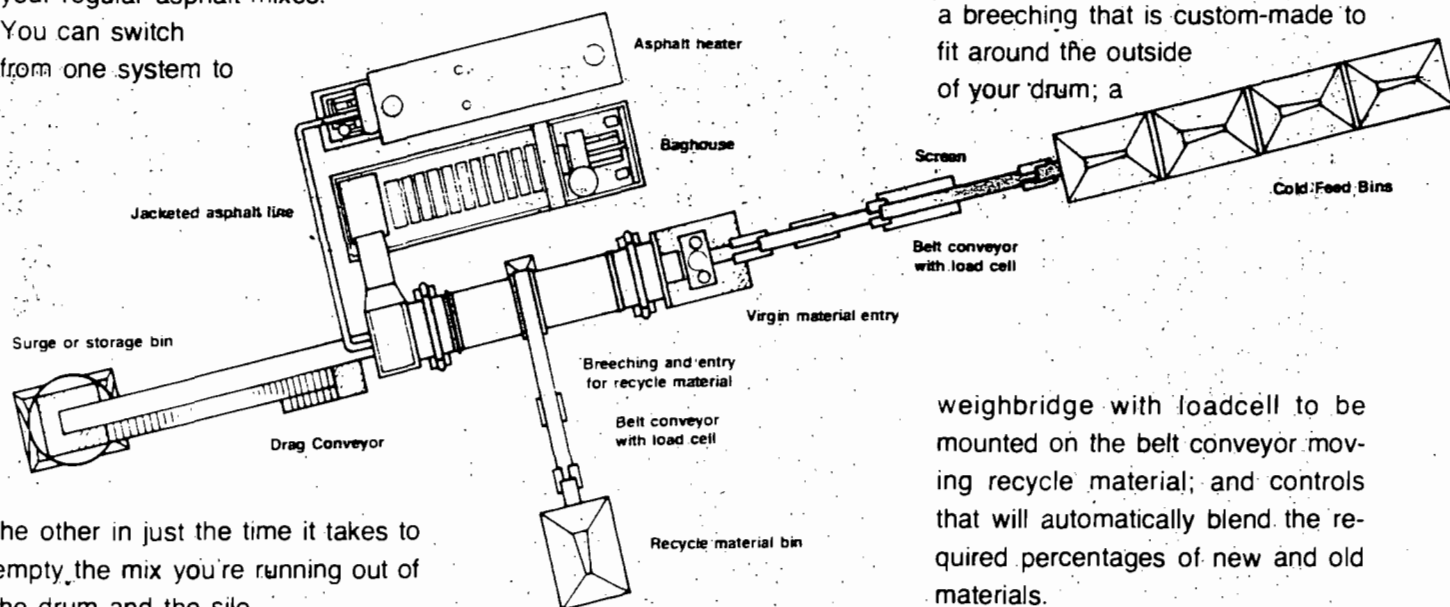
plagued some of the earlier attempts of a center feed. There are no moving parts; no gates that flop open and

ture to prevent smoking of the recycle material. However, as ratios become higher, there is less virgin material to cool the gases and therefore high gas temperatures occur at the asphalt injection point.

A 50-50 blend of virgin and recycle material is usually possible, but realistically, the percentage of recycle material you can process may be considerably higher or lower than 50%. Major determining factors are: the grade and type of liquid cement that was used to make the recycled road material, the moisture of the virgin aggregate, and the production rate.

## The Astec Recycling Kit

A recycling kit includes the Astec patented internal distribution chutes; a breeching that is custom-made to fit around the outside of your drum; a



the other in just the time it takes to empty the mix you're running out of the drum and the silo.

## Exclusive Astec Design

The ASTEC center entry is, as you would expect, a step ahead of competition. Exclusive half-round distribution chutes provide a smooth easy flow of reclaimed material into the mixing process. The design allows no possibility of a roll back of material that causes build-up in the outer housing — a problem that has

close. Flights inside the drum remain standard — no gobbledgook about special cascading action. If your drum is efficient today it will maintain the same efficiency with the ASTEC Recycling Kit.

## Principle of Operation

Virgin material cools high temperature gases in the intake end of the drum to a sufficiently low tempera-

weighbridge with loadcell to be mounted on the belt conveyor moving recycle material; and controls that will automatically blend the required percentages of new and old materials.

You may have—or ASTEC can supply—other equipment needed for recycling reclaimed material. A cold feed hopper with a belt feeder and an inclined conveyor from the hopper to the drum is usually all that is required.

The ASTEC Recycling Kit can be installed on your present drum mixer. It's easy, inexpensive, efficient and proven.

**ASTEC INDUSTRIES, INC.**

P.O. BOX 2787 • 4101 JEROME AVENUE • CHATTANOOGA, TENNESSEE 37407 • 615-867-4210 • TWX 810-573-5260

Supplement Page 2a

## I. INTRODUCTION

On August 25, 1981, the following stationary source was tested for particulate emissions using the EPA Method 5 as directed by the RULES OF THE DEPARTMENT OF ENVIRONMENTAL REGULATION, Chapter 17-2, Section 17-2.23 "Stationary Point Source Emissions Test Procedures", Paragraph 17-2.13(3)(d) as filed 5/27/81, effective date June 16, 1981.

Baghouse Stack Permit AC 06-41234  
Sloan Construction Company, Inc.  
Deerfield Beach, Florida

Personnel involved were:

Seabury-Bottorf Associates, Inc.

John W. Seabury, P. E.  
Nathan D. Seabury  
Kent D. Bottorf

Regulatory Agencies:

Mark W. Eshleman, Pollution Control Engineer, Broward  
County Environmental Quality Control Board

Sloan Construction Company, Inc.:

Frank Miller, Jr., Project Manager  
Plant Operating Personnel

## II. OPERATION

The baghouse controls final emissions from the drum mix dryer after the dust laden air stream has been drawn through a "knock-out box" separator. Dust is filtered from the air stream through Nomex bags with an air to cloth ratio of 5.5:1. The bags are cleaned by reverse air cleaning. Heat for the drying process is generated by burning low sulphur oil. No pollutants exceeding Department of Environmental Regulation requirements are produced by combustion of the fuel. Other dust control apparatus discharges within the process.

The first test run began at 9:35 A.M. and was delayed from 9:37 A.M. to 9:40 A.M. and from 10:16 A.M. to 10:24 A.M. due to plant shut-down. The first run was completed at 10:34 A.M. The second test run began at 1:35 P.M. and was completed at 2:23 P.M. The third test run began at 4:05 P.M. and was terminated at 4:52 P.M. because the plant closed for the day.

### III. SUMMARY OF RESULTS

Production Rate 177.9 Tons/Hour  
Fuel Consumption 1.69 Gallons/Ton

	<u>Run #1</u>	<u>Run #2</u>	<u>Run #3</u>
Stack Velocity, fps ( $V_s$ )	52.68	54.08	53.31
Volumetric Flow Rate, SCFM ( $Q_{std}$ )	21,675	22,060	23,369
Moisture Content, % ( $B_w$ )	25.34	24.86	19.91
Pollutant Mass Rate, Lbs./Hr. (PMR)	.9804	.9021	.9244
Allowable Emissions Rate, Lbs./Hr. (AER) @ .04 Gr./SCFM	7.43	7.56	8.01
Isokinetic Rate, % (I)	94.13	99.75	96.82

### IV. CONCLUSIONS

The plant operated normally at permitted conditions with an average allowable emission rate of 7.67 Lbs./Hr. and an average actual emission rate of .94 Lbs./Hr. This source is well within compliance for particulate.

The test, analysis of samples, and all other procedures were performed in a professional manner and in accordance with the official procedures as outlined in the RULES OF THE DEPARTMENT OF ENVIRONMENTAL REGULATION, Chapter 17-2, Section 17-2.23 "Stationary Point Source Emissions Test Procedures", Paragraph 17-2.13(3)(d) as filed 5/27/81, effective date June 16, 1981.

Kent D. Bottel  
Environmental Analyst

John W. Sisbury (SEAL)  
Engineer

SLOAN CONSTRUCTION CO., INC.

Lake County

Supplement to Page 2, DER Form 17-1.122(16)  
Reference Paragraph G.3.

From EPA-450/2-78-019

May 1978

(OAQPS No. 1.2-096)

"Ambient Monitoring Guidelines for Prevention of Significant Deterioration"

We find that this source is not one of the 28 categories with potential to emit more than 100 tons per year. It is, however, "any other source" with a potential to emit 250 tons per year.

Referring to Section V, Supplement 2, calculations indicate a potential particulate emission of 980 Lb./Hr. or 1225 Tons/Year thus putting this in the "any other source" category emitting over 250 Tons/Year.

The other contaminant emitted is  $SO_2$ . Based on 1981 fuel consumption for similar plant of 1.69 gallons/ton of product, oil consumption will be:

$$1.69 \times 200 \text{ Tons/Hr.} = 338 \text{ Gallons/Hr.}$$

Since No. 5 oil @ 1.7% Sulphur will emit  $SO_2$  at a rate of 267 Lbs./10<sup>3</sup> Gal. Based on Table 1-5 of AP-42 (Rev. 72)

The total  $SO_2$  emitted becomes

$$267/10^3 \times 338 = 90.2 \text{ Lb./Hr.}$$

$$\text{or } 90.2 \times 10 = 902 \text{ Lb./Day}$$

$$\text{or } 902 \times 5 = 4510 \text{ Lb./Week}$$

$$\text{or } 4510 \times 50 \div 2000 = 112.75 \text{ Tons/Year}$$

Since this source is not one of the 28 categories limited to 100 tons per year, but is one of the "other" not exceeding 250 tons per year; we find that the  $SO_2$  emitted does not contribute to significant deterioration as spelled out in the referenced publication.

The Florida Department of Environmental Regulation, through its Tallahassee office, has indicated its willingness to minimize modeling and monitoring requirements for the relocatable asphalt plants - see letter dated September 18, 1979, Jacob D. Varn to John W. Seabury, P. E., attached. The Florida Department of Environmental Regulation also indicated that, until the "Alabama Power Co. vs. Costle" case is resolved, they would assume the responsibility for any modeling that may be required.



Section V - Supplemental Requirements - DER Form 17-1.122 (16)

Supplement 1

Process input rate and product rate are the same since all raw material entering dryer emerge in product undiminished except for moisture which is excluded by definition - see rules of the Florida Department of Environmental Regulations Chapter 17-2.02.

Supplement 2

Nominal air flow is 41,000 ACFM although there may be a slight variation due to moisture content of input and modulation of temperature controls.

The fabric filter dust collector has a minimum cloth area of 6,879 square feet and when operating at 41,000 ACFM, the air to cloth ratio is 5.96 to 1.

At this ratio the emissions meet current standards of 0.04 grains per DSCF. This source will be tested for particulate emissions following methods listed in the current Florida Testing Manual using equipment which conforms to standards listed in EPA Method 5.

Calculations for maximum lb. per hour corrected to standard conditions.

$$\begin{aligned} \text{ACFM} &= 41,000; \% \text{ of moisture} = 15; \text{temperature} = 290^{\circ}\text{F.} \\ \text{Then } (1-.15) 41,000 \frac{60+460}{290+460} &= 24,162 \text{ SCFM} \end{aligned}$$

$$60 \times 24,162 \times .04 \div 7,000 = 8.28 \text{ lb./hour allowable.}$$

Calculations for potential emissions from AP-42, Supplement 8, Table 8.1-2, uncontrolled emissions of 4.9 lbs./ton.

$$\begin{aligned} 4.9 \times 200 &= 980 \text{ lb./hour} \\ 980 \times 10 &= 9,800 \text{ lb./day} \\ 9,800 \times 5 &= 49,000 \text{ lb./week} \\ 245,000 \div 2,000 &= 1,225 \text{ tons/year} \end{aligned}$$

Supplement 3

Potential discharge reference was made to AP-42, Table 8.2-1, Supplement 8 for particulate and the potential discharge reference for fuel contaminate was made to AP-42, (revised 1972).

Supplements IV and V

1. Control device and dust collector, Astec Model PSFS - 41, fabric filter baghouse.

Cloth area 6,879 square feet.

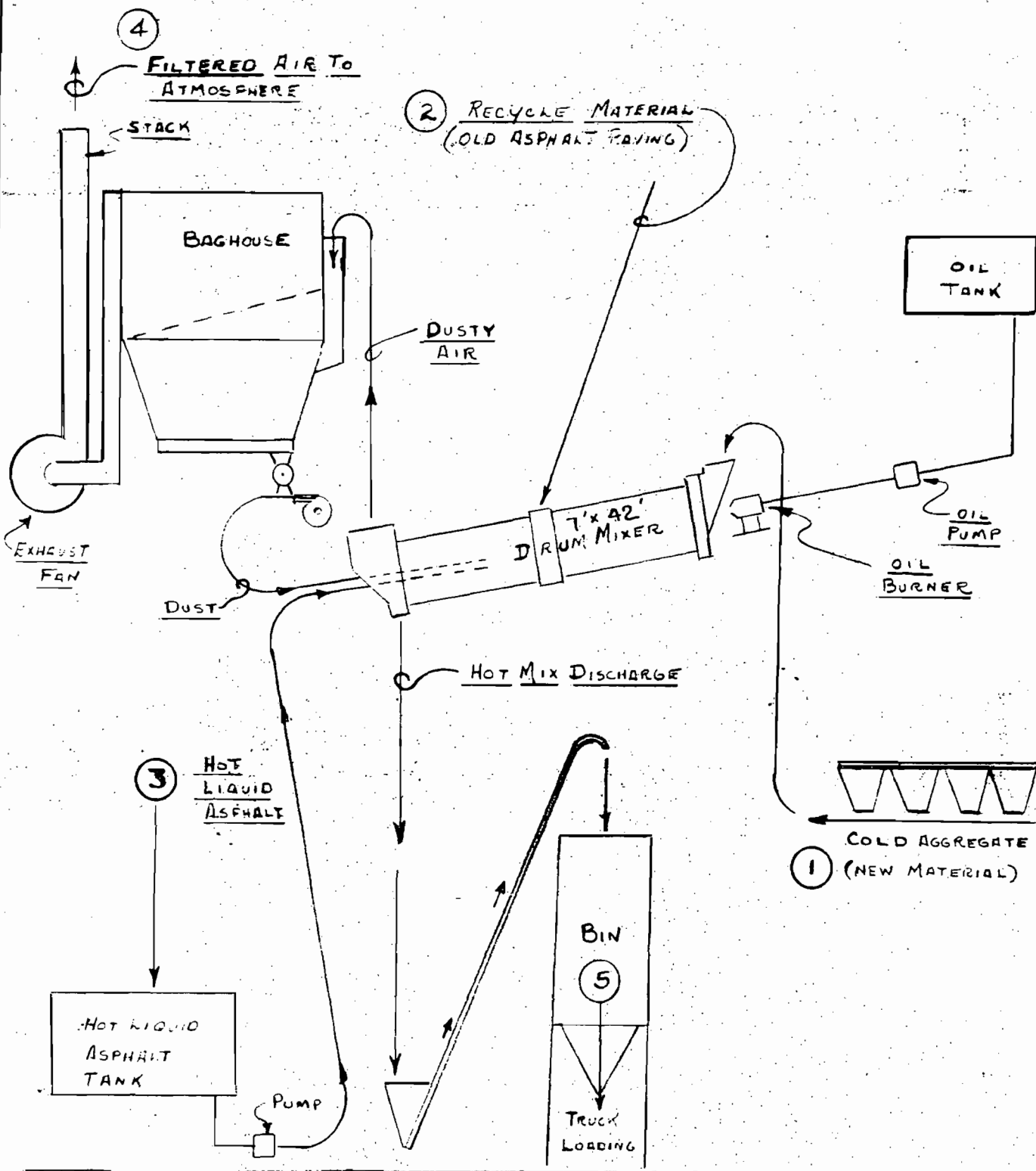
Air to cloth ratio is 5.96 to 1 @ 41,000 CFM.

Cloth bags are arranged in modules of 65 bags each with a total of 11 modules. Modules are cleaned one at a time by reverse air flow from a 15 HP blower. Dust falls from the bags on dirty air side and is removed by a 3 HP screw conveyor and returned to process.

$$2. \text{ Actual Emissions} = \text{Potential} (1 - \text{Efficiency})$$

$$8.28 = 980 (1 - \text{Efficiency})$$

$$\text{Efficiency} = .9915$$

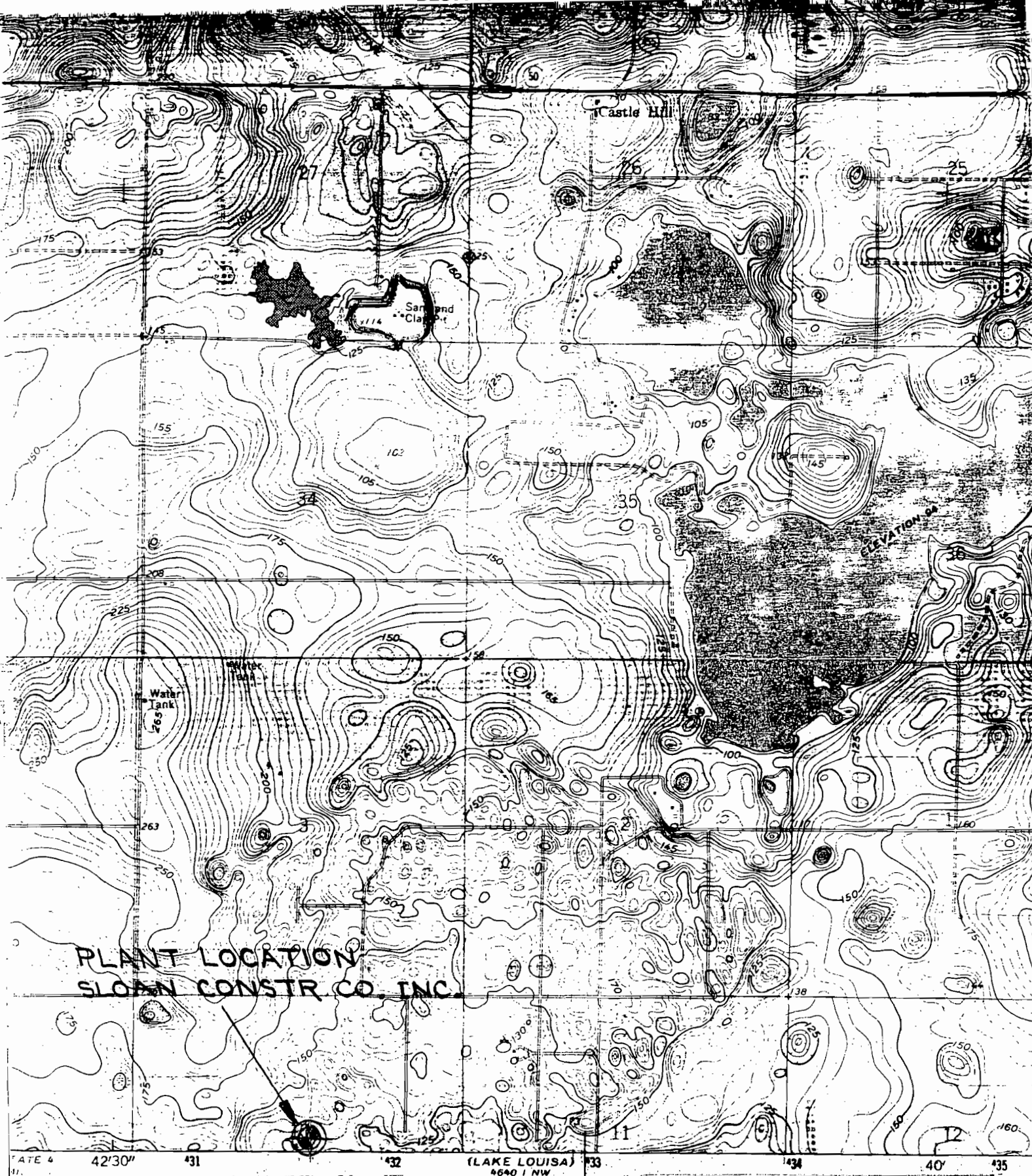


# FLOW DIAGRAM

SEABURY-BOTTORF ASSOCIATES, INC.  
CONSULTING ENGINEERS  
WINTER PARK, FLORIDA

SLOAN CONSTRUCTION CO. INC.  
LAKE COUNTY FLORIDA

DES. —	DWN. J.S.	372-SK-1
SCALE N.S.	DATE 5-20-82	DRAWING NO.



PLANT LOCATION  
SLOAN CONSTR. CO. INC.

### SOURCE LOCATION

LAT. 28° 30' 59"  
LONG. 81° 41' 54"  
UTM. 3152693 N  
UTM. 431658.5 E (ZONE 17)

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

SLOAN CONSTR. CO. INC.  
LAKE COUNTY, FL.

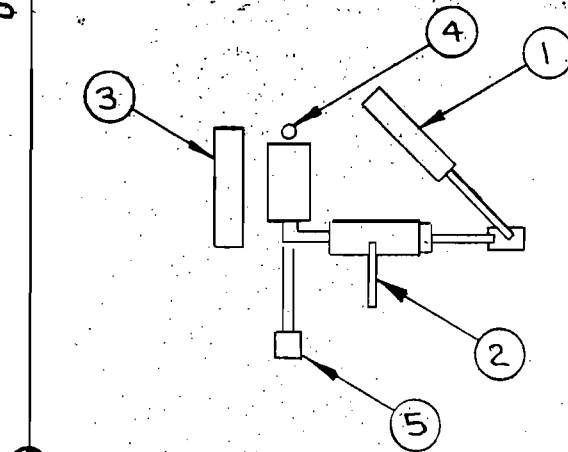
DES.	DWN. D.C.	372-SK2
SCALE	DATE 5-20-82	DRAWING NO.

CITRUS  
GROVES

± 4 ACRE LOT IN SECTION 10  
RANGE 26E, TOWNSHIP 23S

CITRUS  
GROVES

CITRUS  
GROVES



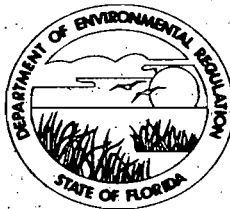
CENTER OF SEC. 10  
CITRUS  
GROVES

1/2 MILE TO  
EAST EDGE OF  
SEC. 10



SEABURY-BOTTORF ASSOCIATES, INC. CONSULTING ENGINEERS ORLANDO, FLORIDA		
SLOAN CONSTRUCTION CO. INC. LAKE COUNTY, FL.		
DES.	DWN. D. C.	372-SK3
SCALE NONE	DATE 5-20-82	DRAWING NO.

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



BOB GRAHAM  
GOVERNOR

JACOB D. VARN  
SECRETARY

STATE OF FLORIDA

## DEPARTMENT OF ENVIRONMENTAL REGULATION

September 18, 1979

Mr. John W. Seabury, P.E.  
Seabury-Bottorf Associates, Inc.  
Consulting Engineers  
1020 N. Orlando Avenue  
Winter Park, Florida 32789

Dear Mr. Seabury:

Thank you for your letter of August 15, 1979, regarding the applicability of the Department's Prevention of Significant Deterioration (PSD) rule. I would like to take this opportunity to clarify the Department's position with respect to the recent decision of the Circuit Court of Appeals for the District of Columbia in Alabama Power Company vs. Costle. The Department has reviewed this case with interest because of its potential impact on our rules. The state's rule was adopted in June of 1978 and submitted to the Environmental Protection Agency for approval prior to that agency's promulgation of its PSD rule. It has always been the Department's intention to seek delegation of PSD permitting from EPA; however, we have been informed by EPA that our present rule is not approvable. Thus, for some time we have been planning revisions to our rule necessary to conform it to the federal rule. This is the situation we found ourselves in when the Alabama Power decision was handed down.

That case involves only the validity of PSD regulations promulgated by EPA and does not directly or indirectly affect the validity of the state rule. However, you have misunderstood the Department's position with respect to amendment of our rule. We still intend to seek delegation of permitting authority, and to obtain such delegation we will have to revise our rule to comply with any amendments to EPA's rule adopted as a result of the Alabama Power case. We certainly do not intend to adopt regulations "identical to the voided regulations" as your letter suggests. Until EPA actually amends its regulations, however, we have no way of knowing what changes we will need to make in our rules.

Mr. John W. Seabury, P.E.

Page Two

September 18, 1979

The Department is well aware of the problems faced by relocatable asphalt plants and has been considering a number of possible amendments to the PSD rule to relieve this situation. In this respect, we would welcome the participation of all interested parties in any future rulemaking proceedings. Until such time as the state rule is amended, the Department must apply and enforce its present rule. In the meantime, the Department is making every effort to minimize the modeling and monitoring requirements imposed on relocatable asphalt plants consistent with protection of ambient air quality and the requirements of our regulations. If you have any questions concerning the specific requirements for the plant you are seeking to have permitted, I would suggest that you contact Dr. J. P. Subramani of the Bureau of Air Quality Analysis in Tallahassee.

Sincerely,

*Jacob D. Varn*  
Jacob D. Varn  
Secretary

JDV/bs