

PROCESS PERMIT APPLICATION  
FOR THE CONSTRUCTION OF A  
VINCE HAGAN MODEL RELOCATABLE  
CONCRETE BATCH PLANT

BALLENGER PAVING COMPANY, INC.  
FLORIDA STATE-WIDE PERMIT

DECEMBER 1996

**RECEIVED**

JAN 29 1997

BUREAU OF  
AIR REGULATION

*5018-001-AC  
ISSUED 11.7.96  
EXP 4/30/97*

Prepared by:

RTP Environmental Associates, Inc.®  
1900 South Highway 14 · Suite 4-B  
Greer, South Carolina 29651

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## 1. INTRODUCTION

### 1.1 Background

Ballenger Paving Company, Inc. (Ballenger) plans to locate one of it's relocatable concrete batch operations (Vince Hagan Model) to various locations throughout Florida. The locations will vary throughout the state, but the counties where the unit will be operating will be contacted with the 7 day advance information form.

### 1.2 Purpose

The purpose of this document is to provide information to the Department of Environmental Protection's Division of Air Resources Management (DEP DARM) for an air quality assessment and review of the proposed Ballenger operations at the various sites in Florida and the subsequent issuance of construction permits. These construction permits will allow the facility to relocate to any location throughout Florida.

### 1.3 Scope

The scope of this document is the presentation of the proposed construction of several processes to prepare cement. Appendix A contains the appropriate process permit application forms. The supporting emission rate calculations are included in Appendix B.

#### 1.4 Site Location and Contact

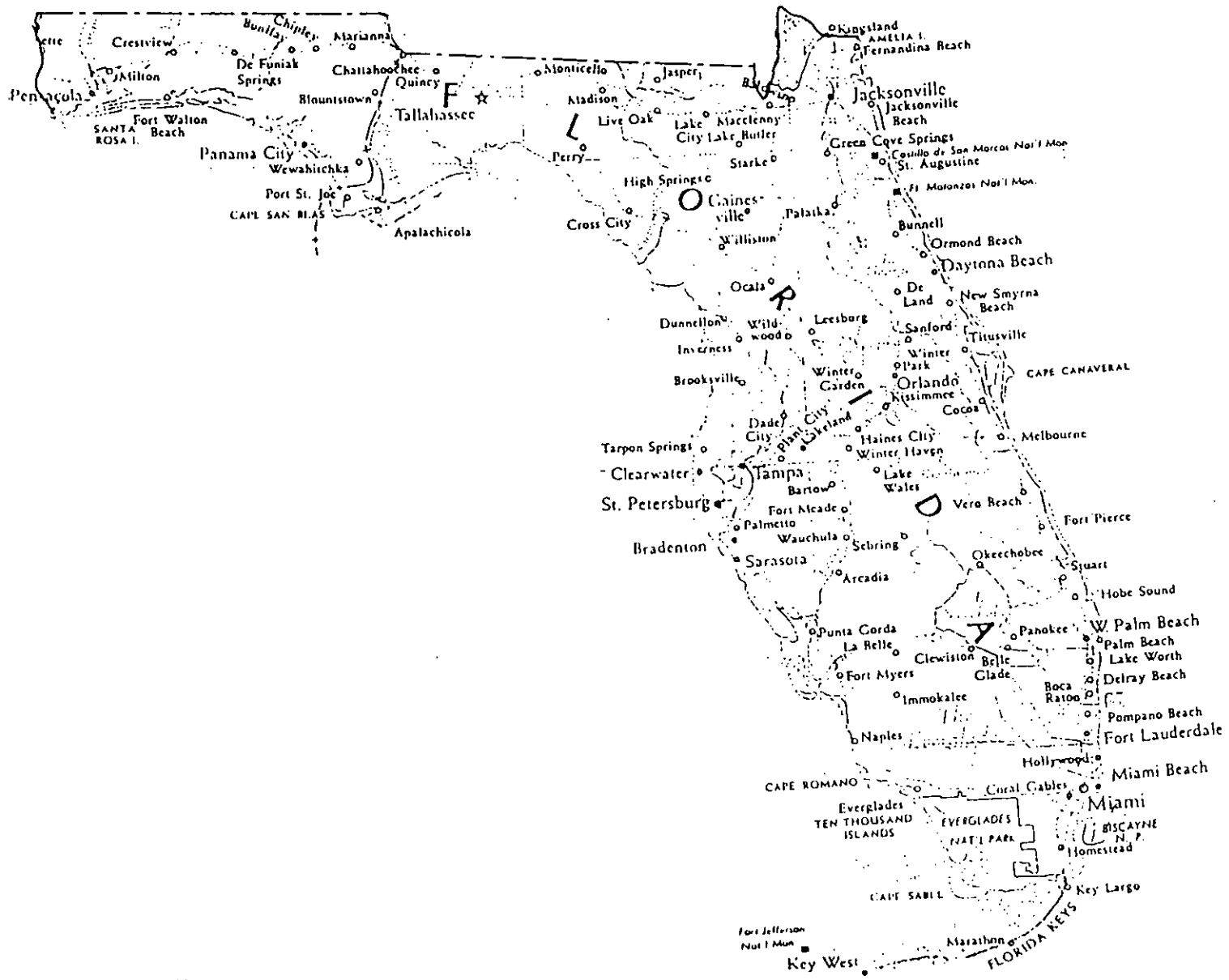
Figure One shows the location of the potential sites for the Florida operations. Ballenger's concrete batch plant will be located mostly in commercially designated job sites.

Further information concerning this submittal may be obtained from:

David L. Robb  
Senior Project Manager  
RTP Environmental Associates, Inc.®  
1900 South Highway 14 Suite 4-B  
Greer, South Carolina 29651  
(864) 848-1303

or

Mr. Milton (Corky) Lane  
E/H/S Director  
Ballenger Paving Company, Inc.  
Post Office Box 127  
Greenville, South Carolina 29602  
Office: (864) 292-9550  
FAX: (864) 244-9310



State-Wide Florida

Figure One

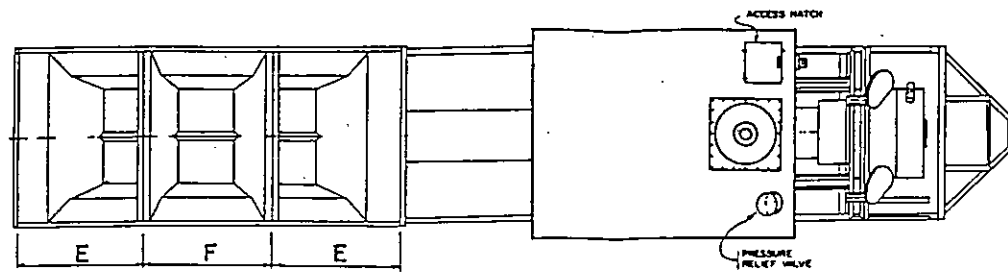
Potential Site Location Map

## 2. PROCESS DESCRIPTION

Ballenger Paving Company, Inc. converts aggregate, sand, cement and water into a concrete for the construction of concrete components. The incoming cement is transferred to the cement silos (see Equipment Sketch given in Figure Two). Aggregate, sand, cement and water from the storage bin are combined in the cement batcher where they are mixed and sent up the enclosed conveyer belt system to the cement weigh batcher. The resulting concrete is weighed and unloaded into trucks via the truck batch. A simplified process flow diagram is given as Figure Three.

A baghouse will be used to control particulate emissions from the processing equipment. Also, an effort to control fugitive particulate emissions, the following practices will be implemented:

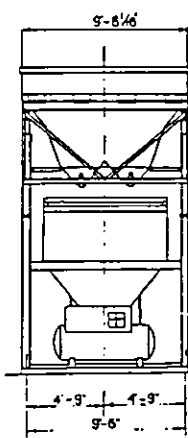
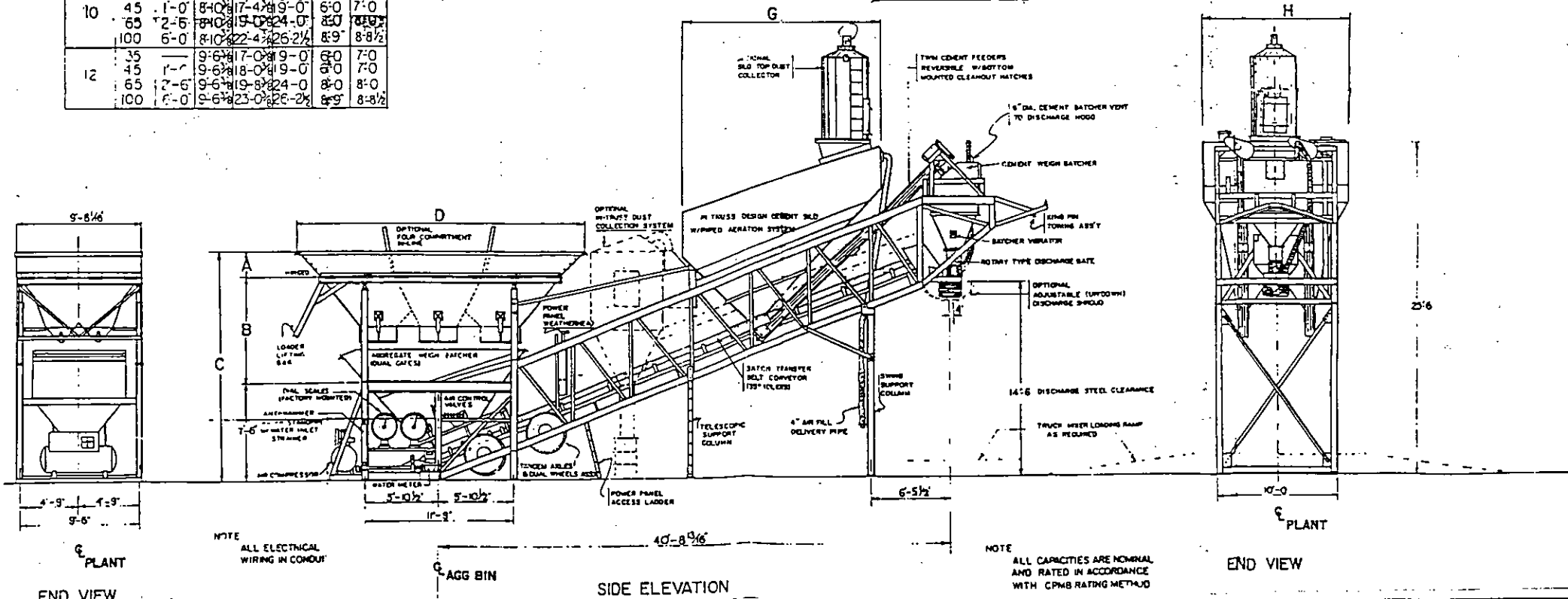
- Water sprays will be used on aggregate storage areas.
- A watering truck will be used to control fugitive emissions from roadways and plant structures.
- Surface areas will be cleaned as needed.



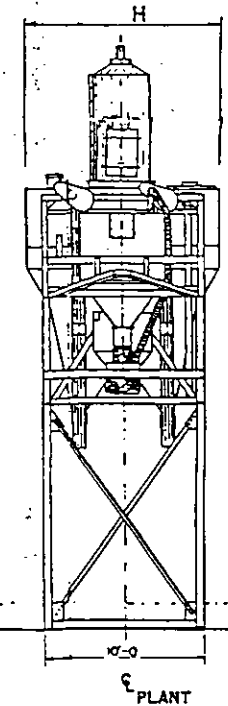
AGG BATCHER SIZE (TONS)	AGGREGATE BIN DIMENSIONS						
	A	B	C	D	E	F	
8	35	1-0	8-2 1/2	15-8 1/2	19-0	6-0	7-0
	45	1-0	8-2 1/2	16-8 1/2	19-0	6-0	7-0
	65	2-6	8-2 1/2	18-4 1/2	24-0	8-0	8-0
	100	6-0	8-2 1/2	21-8 1/2	26-2 1/2	8-9	8-8 1/2
10	35	1-0	8-10	16-4 1/2	19-0	6-0	7-0
	45	1-0	8-10	17-4 1/2	19-0	6-0	7-0
	65	2-6	8-10	19-0	24-0	8-0	8-0
	100	6-0	8-10	22-4 1/2	26-2 1/2	8-9	8-8 1/2
12	35	1-0	9-6 1/2	17-0 1/2	19-0	6-0	7-0
	45	1-0	9-6 1/2	18-0 1/2	19-0	6-0	7-0
	65	2-6	9-6 1/2	19-8 1/2	24-0	8-0	8-0
	100	6-0	9-6 1/2	23-0 1/2	26-2 1/2	8-9	8-8 1/2

TOP VIEW

CEMENT SILO		
SIZE BARRELS (FT <sup>3</sup> )	CAPACITY DIMENSIONS	
	G	H
250	10-8 1/4	15-8 1/2
300	11-7 1/4	17-0



AGG BIN  
END VIEW



CEMENT SILO  
END VIEW

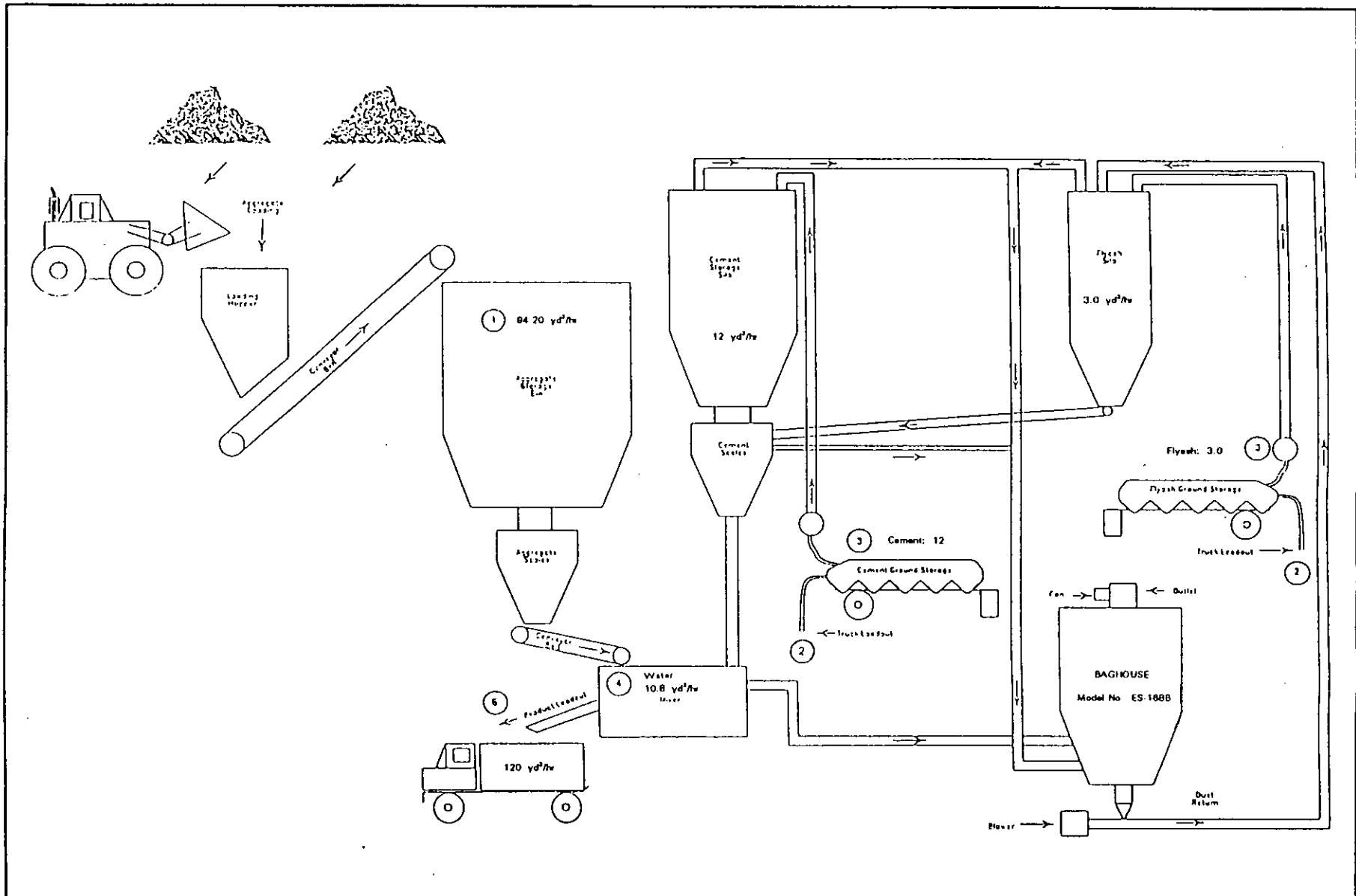
NOTE ALL ELECTRICAL WIRING IN CONDUIT

NOTE ALL CAPACITIES ARE NOMINAL AND RATED IN ACCORDANCE WITH CPMB RATING METHOD

BALLENGER PAVING COMPANY, INC.  
GREENVILLE, SOUTH CAROLINA

RTP ENVIRONMENTAL ASSOCIATES, INC.®  
Project: 4040.05

Figure Two  
Equipment Sketch



APAC/BALLENGER PAVING CO., INC.

RTP ENVIRONMENTAL ASSOCIATES, INC.<sup>®</sup>  
 PROJECT NO. 4040.05 DATE: 12/96

FIGURE THREE  
 PROCESS FLOW DIAGRAM



### 3. EMISSION RATE DETERMINATION

The emissions were determined with the use of the EPA AP-42 Compilation of Emission Factors, Table 11.12-2. Emission factors were available and used for: 1. Sand and aggregate transfer to the elevated bin; 2. Pneumatic unloading of cement and fly ash to ground storage tankers; 3. Pneumatic unloading of cement and fly ash to elevated silo; 4. Weigh hopper loading; and 5. Cement mixer loading.

Other emission factors are given, but not used, for other types of operations typical of these plants. They include: 1. Bucket elevator cement unloading to elevator storage silo (there are no bucket elevators at this plant); 2. Truck mix loading (should have no emissions at this facility because it is wet); 3. Vehicle traffic on unpaved roads (not applicable, as the roads are paved and will be wetted regularly to reduce dust); 4. Wind erosion from sand and aggregate storage piles (water sprays will be used on the piles to minimize fugitive emissions); and 5. Total process emissions, truck mix (same comments as truck mix loading).

The manufacturer of the dust control unit associated with the last four sources, supplied a guaranteed particulate removal efficiency of 90.0 percent. Emission calculations are given in Appendix B.

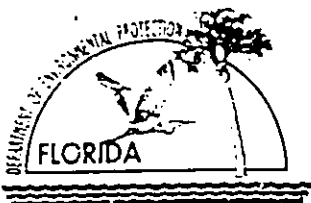
#### 4. REGULATORY CONSIDERATIONS

The regulations that apply to this concrete batching plant are FAC regulation 62-296.414 and 62-296-320(4)(c). The 414 regulation requires that visible emissions be limited to five percent opacity. The 320 regulation requires reasonable precautions in controlling particulate emissions. These precautions include: (1) Aggregate storage areas - Maintain sufficient moisture content of material through use of water sprays or similar devices to minimize unconfined emissions and (2) Yard and road area - Remove particulate matter and wet these areas in such a manner as to prevent re-entrainment of particulate matter into the atmosphere. These operations should easily meet these regulations.

A larger but similar unit operated by Ballenger has been permitted to construct and operate in Florida's Duval county for the reconstruction of a portion of I-95. A copy of the permit is given in Appendix C.

**Appendix A**

**Construction Permit Application**



# Department of Environmental Protection

## DIVISION OF AIR RESOURCES MANAGEMENT APPLICATION FOR AIR PERMIT - LONG FORM

See Instructions for Form No. 62-210.900(1)

### I. APPLICATION INFORMATION

This section of the Application for Air Permit form identifies the facility and provides general information on the scope and purpose of this application. This section also includes information on the owner or authorized representative of the facility (or the responsible official in the case of a Title V source) and the necessary statements for the applicant and professional engineer, where required, to sign and date for formal submittal of the Application for Air Permit to the Department. If the application form is submitted to the Department using ELSA, this section of the Application for Air Permit must also be submitted in hard-copy.

#### Identification of Facility Addressed in This Application


Enter the name of the corporation, business, governmental entity, or individual that has ownership or control of the facility; the facility site name, if any; and the facility's physical location. If known, also enter the facility identification number.

1. Facility Owner/Company Name: Ballenger Paving Company, Inc.	
2. Site Name: State-Wide Florida	
3. Facility Identification Number: <span style="float: right;">[xx] Unknown</span>	
4. Facility Location: Street Address or Other Locator: P.O. Box 127 900 W. Lee Road; Greenville, SC 29602 City: Greenville (Taylors) County: Greenville Zip Code: 29602	
5. Relocatable Facility? [xx] Yes [ ] No	6. Existing Permitted Facility? [ ] Yes [xx] No

#### Application Processing information (DEP Use)

1. Date of Receipt of Application:	1-29-97
2. Permit Number:	7775018-002-AC (existing)
3. PSD Number (if applicable):	7775027-001-AC
4. Siting Number (if applicable):	

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official:  Mr. Milton (Corky) Lane
2. Owner/Authorized Representative or Responsible Official Mailing Address:  Organization/Firm: Ballenger Paving Company, Inc. Street Address: 900 W. Lee Road City: Greenville State: SC Zip Code: 29602
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: (864) 292 - 9550 Fax: (864) 244 - 9310
4. Owner/Authorized Representative or Responsible Official Statement:  <i>I, the undersigned, am the owner or authorized representative* of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210.200, F.A.C., of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.</i>   Signature _____ Date <u>1-13-97</u>

\* Attach letter of authorization if not currently on file.

**Scope of Application**

This Application for Air Permit addresses the following emissions unit(s) at the facility. An Emissions Unit Information Section (a Section III of the form) must be included for each emissions unit listed.

Emissions Unit ID	Description of Emissions Unit	Permit Type

Purpose of Application and Category

Check one (except as otherwise indicated):

**Category I: All Air Operation Permit Applications Subject to Processing Under Chapter 62-213, F.A.C.**

This Application for Air Permit is submitted to obtain:

- Initial air operation permit under Chapter 62-213, F.A.C., for an existing facility which is classified as a Title V source.
- Initial air operation permit under Chapter 62-213, F.A.C., for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number: \_\_\_\_\_

- Air operation permit renewal under Chapter 62-213, F.A.C., for a Title V source.

Operation permit to be renewed: \_\_\_\_\_

- Air operation permit revision for a Title V source to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number: \_\_\_\_\_

Operation permit to be revised: \_\_\_\_\_

- Air operation permit revision or administrative correction for a Title V source to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. Also check Category III.

Operation permit to be revised/corrected: \_\_\_\_\_

- Air operation permit revision for a Title V source for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.

Operation permit to be revised: \_\_\_\_\_

Reason for revision: \_\_\_\_\_

\_\_\_\_\_

**Category II: All Air Operation Permit Applications Subject to Processing Under Rule 62-210.300(2)(b), F.A.C.**

This Application for Air Permit is submitted to obtain:

- Initial air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s): \_\_\_\_\_

- Renewal air operation permit under Rule 62-210.300(2)(b), F.A.C., for a synthetic non-Title V source.

Operation permit to be renewed: \_\_\_\_\_

- Air operation permit revision for a synthetic non-Title V source. Give reason for revision; e.g., to address one or more newly constructed or modified emissions units.

Operation permit to be revised: \_\_\_\_\_

Reason for revision: \_\_\_\_\_  
\_\_\_\_\_

**Category III: All Air Construction Permit Applications for All Facilities and Emissions Units**

This Application for Air Permit is submitted to obtain:

- Air construction permit to construct or modify one or more emissions units within a facility (including any facility classified as a Title V source).

Current operation permit number(s), if any: \_\_\_\_\_

- Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

Current operation permit number(s): \_\_\_\_\_

- Air construction permit for one or more existing, but unpermitted, emissions units.



**Application Processing Fee**

Check one:

[XX] Attached - Amount: \$ 1,000.00 [ ] Not Applicable.

**Construction/Modification Information**

<p><b>1. Description of Proposed Project or Alterations:</b></p> <p>This 120 yd<sup>3</sup> concrete/hr relocatable concrete batching unit will be located in the State of Florida. The unit utilizes 48,000 lb. cement, 12,000 lb. flyash, 376,800 lb. sand and coarse aggregate, and 43,200 lb. water. Trucks are utilized to spread the mix. Note: All of the above materials are given on a per-batch basis.</p>
<p><b>2. Projected or Actual Date of Commencement of Construction:</b></p> <p>Multiple dates</p>
<p><b>3. Projected Date of Completion of Construction:</b></p> <p>Multiple dates</p>

**Professional Engineer Certification**

<p><b>1. Professional Engineer Name:</b> Paul E. Neil <b>Registration Number:</b></p>
<p><b>2. Professional Engineer Mailing Address:</b></p> <p><b>Organization/Firm:</b> RTP Environmental Associates, Inc. <b>Street Address:</b> 7514 Girard Avenue, #1-432 <b>City:</b> San Diego <b>State:</b> California <b>Zip Code:</b> 92037</p>
<p><b>3. Professional Engineer Telephone Numbers:</b></p> <p><b>Telephone:</b> (619) 456 - 8020 <b>Fax:</b> (619) 456 - 0127</p>

4. Professional Engineer Statement:

*I, the undersigned, hereby certify, except as particularly noted herein\*, that:*

*(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and*

*(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.*

*If the purpose of this application is to obtain a Title V source air operation permit (check here [ ] if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.*

*If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [X] if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.*

*If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [ ] if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.*

*Paul Neil*

*11-26-96*

Signature

Date

(seal)

\* Attach any exception to certification statement.

**Application Contact**

1. Name and Title of Application Contact:

David Robb, Senior Project Manager

2. Application Contact Mailing Address:

Organization/Firm: RTP Environmental Associates, Inc.  
Street Address: 1900 South Highway 14 Suite 4-B  
City: Greer State: SC Zip Code: 29651

3. Application Contact Telephone Numbers:

Telephone: (864) 848-1303 Fax: (864) 848 - 1311

**Application Comment**

Any questions regarding this application should be directed towards RTP Environmental Associates, Inc. or towards Ballenger Paving Co., Inc.

## II. FACILITY INFORMATION

### A. GENERAL FACILITY INFORMATION

#### Facility Location and Type

1. Facility UTM Coordinates: Zone: _____ East (km): _____ North (km): _____			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): _____ Longitude (DD/MM/SS): _____			
3. Governmental Facility Code:  0	4. Facility Status Code:  C	5. Facility Major Group SIC Code:  16	6. Facility SIC(s): Const, Mch'y 3531 or Hwy & St Const 1611
7. Facility Comment (limit to 500 characters):  This operation has been permitted in South Carolina previously for the construction of airport runways. There have been no past complaints or violations due to this unit's operation.			

#### Facility Contact

1. Name and Title of Facility Contact:	Mr. Milton (Corky) Lane Environmental, Health & Safety Director
2. Facility Contact Mailing Address: Organization/Firm: Street Address:  City: Greenville      State: SC      Zip Code: 29602	P. O. Box 127 Ballenger Paving Company, Inc. 900 West Lee Road
3. Facility Contact Telephone Numbers: Telephone: (864) 292 - 9550	Fax: (864) 244 - 9310

**Facility Regulatory Classifications**

1. Small Business Stationary Source? Small business yes, but relocatable. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
2. Title V Source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Synthetic Non-Title V Source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4. Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Synthetic Minor Source of Pollutants Other than HAPs? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6. Major Source of Hazardous Air Pollutants (HAPs)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7. Synthetic Minor Source of HAPs? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
8. One or More Emissions Units Subject to NSPS? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
9. One or More Emission Units Subject to NESHAP? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
10. Title V Source by EPA Designation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
11. Facility Regulatory Classifications Comment (limit to 200 characters):  Relocatable minor source; relocatable concrete batch plant.

## B. FACILITY REGULATIONS

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

62-296.414 - Concrete Batching Plants - limits visible emissions to 5% opacity as determined by EPA Test Method 9.

62-296-320(4)(C) - Aggregate Storage Areas - Maintain sufficient moisture content of material through use of water sprays or similar devices to minimize unconfined emissions.

- Yard and Road Area - Remove particulate matter and wet these areas in such a manner as to prevent re-entrainment of particulate matter into the atmosphere.



### C. FACILITY POLLUTANTS

#### Facility Pollutant Information

1. Pollutant Emitted	2. Pollutant Classification
Particulate	B
PM <sub>10</sub>	B



## D. FACILITY POLLUTANT DETAIL INFORMATION

**Facility Pollutant Detail Information:** Pollutant \_\_\_\_\_ of \_\_\_\_\_

1. Pollutant Emitted:	PM, PM <sub>10</sub>	
2. Requested Emissions Cap:	(lb/hour)	(tons/year)
		24.9
3. Basis for Emissions Cap Code:	Other	
4. Facility Pollutant Comment (limit to 400 characters):		
<p>Most emissions will be in the form of particulate matter (PM). Most emissions have the potential of being PM<sub>10</sub> or smaller. Emissions are expected from the unit's baghouse and there is some potential for minor fugitive emissions. An approximate 90.0% efficient baghouse will control emissions from: sand and aggregate transfer; pneumatic unloading of cement and flyash to ground storage tankers; pneumatic unloading of cement and flyash to elevated silo; weigh hopper unloading; and cement mixer loading. Emissions before controls are approximately 20.01 pounds per hour. Emissions after controls are not expected to exceed 3.885 pounds per hour.</p> <p>The cap is requested to keep emissions below 25 tons per year so the permit review fee will not exceed \$1,000.00. This should allow the company to operate 8760 hours per year at an emission rate of 3.885 pounds per hour.</p>		

**Facility Pollutant Detail Information:** Pollutant \_\_\_\_\_ of \_\_\_\_\_

1. Pollutant Emitted:		
2. Requested Emissions Cap:	(lb/hour)	(tons/year)
3. Basis for Emissions Cap Code:		
4. Facility Pollutant Comment (limit to 400 characters):		

## E. FACILITY SUPPLEMENTAL INFORMATION

### Supplemental Requirements for All Applications

1. Area Map Showing Facility Location: <input checked="" type="checkbox"/> Attached, Document ID: <u>Figure 1</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Facility Plot Plan: <input checked="" type="checkbox"/> Attached, Document ID: <u>Figure 2</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Process Flow Diagram(s): <input checked="" type="checkbox"/> Attached, Document ID: <u>Figure 3</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: <input checked="" type="checkbox"/> Attached, Document ID: <u>Page 4</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Fugitive Emissions Identification: <input checked="" type="checkbox"/> Attached, Document ID: <u>Page 4</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
6. Supplemental Information for Construction Permit Application: <input checked="" type="checkbox"/> Attached, Document ID: <u>Entire pkg.</u> <input type="checkbox"/> Not Applicable

### Additional Supplemental Requirements for Category I Applications Only

7. List of Proposed Exempt Activities: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
8. List of Equipment/Activities Regulated under Title VI:  <input type="checkbox"/> Attached, Document ID: _____  <input type="checkbox"/> Equipment/Activities On site but Not Required to be Individually Listed  <input type="checkbox"/> Not Applicable
9. Alternative Methods of Operation: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
10. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable

<p>11. Identification of Additional Applicable Requirements:  <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable</p>
<p>12. Compliance Assurance Monitoring Plan:  <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable</p>
<p>13. Risk Management Plan Verification:</p> <p><input type="checkbox"/> Plan Submitted to Implementing Agency - Verification Attached,  Document ID: _____</p> <p><input type="checkbox"/> Plan to be Submitted to Implementing Agency by Required Date</p> <p><input type="checkbox"/> Not Applicable</p>
<p>14. Compliance Report and Plan:  <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable</p>
<p>15. Compliance Certification (Hard-copy Required):  <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable</p>

### III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

#### A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

##### Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

**B. GENERAL EMISSIONS UNIT INFORMATION  
(Regulated and Unregulated Emissions Units)**

**Emissions Unit Description and Status**

<p>1. Description of Emissions Unit Addressed in This Section (limit to 60 characters):</p> <p>The entire emission unit is a relocatable concrete batch unit. The unit is equipped with a baghouse for an approximate 90.0% efficient control.</p>		
<p>2. Emissions Unit Identification Number: [ 1 ] No Corresponding ID [ ] Unknown</p>		
<p>3. Emissions Unit Status Code:</p> <p align="center">C</p>	<p>4. Acid Rain Unit? [ ] Yes [xx] No</p>	<p>5. Emissions Unit Major Group SIC Code:</p> <p align="center">16</p>
<p>6. Emissions Unit Comment (limit to 500 characters):</p> <p>The emission unit will have the baghouse as a point source and will have the potential for fugitive emissions.</p>		

**Emissions Unit Control Equipment**

**A.**

<p>1. Description (limit to 200 characters):</p> <p>The control equipment is a baghouse, Vince Hagan Model ES-168B. The control unit was built October 9, 1979.</p>
<p>2. Control Device or Method Code:</p> <p>017 - fabric filter; medium efficiency approximately 90.0%</p>

B.

1. Description (limit to 200 characters):
2. Control Device or Method Code:

C.

1. Description (limit to 200 characters):
2. Control Device or Method Code:

**C. EMISSIONS UNIT DETAIL INFORMATION  
(Regulated Emissions Units Only)**

Emissions Unit Details

N/A

1. Initial Startup Date:		
2. Long-term Reserve Shutdown Date:		
3. Package Unit: Manufacturer:		Model Number:
4. Generator Nameplate Rating:		MW
5. Incinerator Information:		
	Dwell Temperature:	°F
	Dwell Time:	seconds
	Incinerator Afterburner Temperature:	°F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:		
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters):		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:			
	hours/day		days/week
	weeks/year		hours/year

**D. EMISSIONS UNIT REGULATIONS**  
**(Regulated Emissions Units Only)** N/A

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

A large, empty rectangular box with a black border, intended for the Rule Applicability Analysis. The box is currently blank.





**E. EMISSION POINT (STACK/VENT) INFORMATION  
(Regulated Emissions Units Only)**

**Emission Point Description and Type**

1.	Identification of Point on Plot Plan or Flow Diagram: See Figures 1, 2, and 3	
2.	Emission Point Type Code: <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	
3.	Descriptions of Emissions Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):  . one baghouse with stack  . other miscellaneous opportunities for fugitive emissions	
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common:  N/A	
5.	Discharge Type Code: <input type="checkbox"/> D <input checked="" type="checkbox"/> F <input type="checkbox"/> H <input type="checkbox"/> P <input type="checkbox"/> R <input checked="" type="checkbox"/> V <input type="checkbox"/> W	
6.	Stack Height:	feet Approx. 33.5
7.	Exit Diameter:	feet D = 0.458
8.	Exit Temperature:	°F Ambient

Emissions Unit Information Section \_\_\_\_\_ of \_\_\_\_\_

9. Actual Volumetric Flow Rate:	acfm Approx. 500
10. Percent Water Vapor :	% Ambient
11. Maximum Dry Standard Flow Rate:	dscfm Approx. 500
12. Nonstack Emission Point Height:	feet Varies; see Figure 3
13. Emission Point UTM Coordinates:	
Zone:	East (km):                      North (km):
14. Emission Point Comment (limit to 200 characters):	None

F. SEGMENT (PROCESS/FUEL) INFORMATION N/A  
(Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment \_\_\_\_\_ of \_\_\_\_\_

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):	
2. Source Classification Code (SCC):	
3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters):	

Emissions Unit Information Section \_\_\_\_\_ of \_\_\_\_\_

Segment Description and Rate: Segment \_\_\_\_\_ of \_\_\_\_\_

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):	
2. Source Classification Code (SCC):	
3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters):	



**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**  
 (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted:	PM, PM <sub>10</sub>
2. Total Percent Efficiency of Control:	90.0 %
3. Potential Emissions:	lb/hour                      tons/year 3.885                                  24.9
4. Synthetically Limited?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive/Other Emissions:	N/A <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3              _____ to _____ tons/year
6. Emission Factor:	EPA's AP-42 Reference: Table 11.12-2
7. Emissions Method Code:	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	See Appendix B
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	See Appendix B

Emissions Unit Information Section \_\_\_\_\_ of \_\_\_\_\_

**Allowable Emissions** (Pollutant identified on front of page)

A. Only allowable is 5% opacity

1. Basis for Allowable Emissions Code:		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:		
4. Equivalent Allowable Emissions:	lb/hour	tons/year
5. Method of Compliance (limit to 60 characters):		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):		

B.

1. Basis for Allowable Emissions Code:		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:		
4. Equivalent Allowable Emissions:	lb/hr	tons/year
5. Method of Compliance (limit to 60 characters):		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):		



I. VISIBLE EMISSIONS INFORMATION  
(Regulated Emissions Units Only)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype:	VE 05
2. Basis for Allowable Opacity:	<input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Requested Allowable Opacity:	As given by rule
Normal Conditions:	%      Exceptional Conditions:      %
Maximum Period of Excess Opacity Allowed:	min/hour
4. Method of Compliance:	EPA Method 9, Visible Emissions
5. Visible Emissions Comment (limit to 200 characters):	

Visible Emissions Limitation: Visible Emissions Limitation \_\_\_\_\_ of \_\_\_\_\_

1. Visible Emissions Subtype:	
2. Basis for Allowable Opacity:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Requested Allowable Opacity:	
Normal Conditions:	%      Exceptional Conditions:      %
Maximum Period of Excess Opacity Allowed:	min/hour
4. Method of Compliance:	
5. Visible Emissions Comment (limit to 200 characters):	

**J. CONTINUOUS MONITOR INFORMATION**  
 (Regulated Emissions Units Only)

N/A

Continuous Monitoring System: Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information: Manufacturer: Model Number: <span style="float:right">Serial Number:</span>	
5. Installation Date:	
6. Performance Specification Test Date:	
7. Continuous Monitor Comment (limit to 200 characters):	

Continuous Monitoring System: Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information: Manufacturer: Model Number: <span style="float:right">Serial Number:</span>	
5. Installation Date:	
6. Performance Specification Test Date:	
7. Continuous Monitor Comment (limit to 200 characters):	

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT  
TRACKING INFORMATION**  
(Regulated and Unregulated Emissions Units) N/A

**PSD Increment Consumption Determination**

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

- The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

Emissions Unit Information Section \_\_\_\_\_ of \_\_\_\_\_

2. Increment Consuming for Nitrogen Dioxide? N/A

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

- The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	<input type="checkbox"/> C	<input type="checkbox"/> E	<input type="checkbox"/> Unknown
SO2	<input type="checkbox"/> C	<input type="checkbox"/> E	<input type="checkbox"/> Unknown
NO2	<input type="checkbox"/> C	<input type="checkbox"/> E	<input type="checkbox"/> Unknown
4. Baseline Emissions:			
PM	lb/hour	tons/year	
SO2	lb/hour	tons/year	
NO2		tons/year	
5. PSD Comment (limit to 200 characters):			

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION  
(Regulated Emissions Units Only)**

**Supplemental Requirements for All Applications**

N/A

1. Process Flow Diagram <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable

Additional Supplemental Requirements for Category I Applications Only

N/A

10. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
11. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
12. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
13. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
14. Acid Rain Application (Hard-copy Required)  <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____  <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____  <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____  <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____  <input type="checkbox"/> Not Applicable

**Appendix B**

Emission Rate Calculations

**APAC/Ballenger Paving Company, Inc.**

**Potential Particulate Emission Rate at 120 yd<sup>3</sup>/hr**

**AT A BAGHOUSE EFFICIENCY OF 90.0%**

<u>Source</u>	<u>Mass Throughput yd<sup>3</sup>/hr</u>	<u>Uncontrolled Emission Factor lbs/yd<sup>3</sup></u>	<u>Uncontrolled Emission lbs/hr</u>
1. Sand and Aggregate Transfer to Elevated Bin	94.20 X	.05	4.71
2. Pneumatic Unloading of Cement & Flyash to Ground Storage Tankers	15.00 X	.07	1.05
3. Pneumatic Unloading of Cement & Flyash to Elevated Silo	15.00 X	.07	1.05
4. Weigh Hopper Loading	120 X	.04	4.8
5. Cement Mixer Loading	120 X	.07	8.4
		Total Uncontrolled Particulate =	20.01

Source #1 is controlled by water spray, with approximately a 50% fugitive reduction.  
Source #2, 3, 4, and 5 are controlled with a baghouse that has a 90.0% removal efficiency.

**Actual Emission (Controlled)**

Source #1	=	4.71 lbs/hr x (1-.50)	=	2.355 lbs/hr
Source #2	=	1.05 lbs/hr x (1-.90)	=	0.105 lbs/hr
Source #3	=	1.05 lbs/hr x (1-.90)	=	0.105 lbs/hr
Source #4	=	4.8 lbs/hr x (1-.90)	=	0.480 lbs/hr
Source #5	=	8.4 lbs/hr x (1-.90)	=	<u>0.840 lbs/hr</u>
<b>TOTAL</b>			=	3.885 lbs/hr

$$3.885 \text{ lbs/hr} \times \frac{8760 \text{ hrs/yr}}{2000 \text{ lbs/ton}} = 17.02 \text{ tons/yr}$$

**Precautions to Prevent Emissions of Unconfined Particulate Matter**

1. Baghouse controls unconfined emissions from the weigh hopper and the on-site rotary mixer.
2. Aggregate Piles will be wetted as needed for minimizing wind erosion.
3. Driveway areas are wetted if needed to minimize unconfined particulate from vehicular traffic and wind.



APAC/Ballenger Paving Company, Inc.

Mass Balance at 120 yd<sup>3</sup>/hr

<u>Source</u>	<u>Material</u>	<u>Rate (lbs/hr)</u>	<u>Rate (yd<sup>3</sup>/hr)</u>
1. Sand and Aggregate Transfer to Elevated Bin	Sand & Agg.	376,800	94.20
2. Pneumatic Unloading of Cement & Flyash to Ground Storage Tankers	Cement	48,000	12
	Flyash	12,000	3.0
3. Pneumatic Unloading of Cement & Flyash to Elevated Silo	Cement	48,000	12
	Flyash	12,000	3.0
4. Weigh Hopper Loading	Sand & Agg.	376,800	94.20
	Cement	48,000	12
	Flyash	12,000	3.0
	Water	43,200	10.8
5. Cement Mixer Loading	Mixed Cement	480,000	120

**Appendix C**

Duval County Construction Permit

**REGULATORY & ENVIRONMENTAL  
SERVICES DEPARTMENT**  
Air & Water Quality Division



<p><b>Permittee:</b>  Ballenger Paving Company, Inc. P.O. Box 127 Greenville, SC 29602</p>	<p><b>Permit Number:</b> 777-5018-001-AC  <b>Expiration Date:</b> April 30, 1997  <b>County:</b> Duval  <b>Latitude/Longitude:</b> 30°07'35" N / 81°30'14" W  <b>UTM: Zone 17</b> E-443.8 N-3345.0  <b>Project:</b> Relocatable Concrete Batch Plant</p>
--	--

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 62-209, 62-210, 62-212, 62-272, 62-275, 62-296, 62-297 and 62-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Regulatory and Environmental Services Department, Air & Water Quality Division (Department), and made a part hereof and specifically described as follows:

For the construction of a Rex Model S Relocatable Concrete Batch Plant.

Emission Unit(s) (EU) and Control Equipment shall be as follows:

<u>EU No.</u>	<u>EU Description</u>	<u>Control Equipment</u>
001	Rex Model S Relocatable Concrete Batch Plant	CW-RA-200 Baghouse
002	Aggregate Storage Areas	Water Spray

Located at Interstate 95 between J. Turner Butler Boulevard and Baymeadows Road.

Supporting documents shall be as follows:

Department of Environmental Protection application for Air Permit - Long Form received August 27, 1996.



**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific process and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law, and at reasonable times, access to the premises where the permitted activity is located or conducted to:
  - a. Have access to and copy any records that must be kept under conditions of the permit;
  - b. Inspect the facility, equipment practices, or operations regulated or required under this permit; and
  - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with, or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - a. A description of and cause of non-compliance; and
  - b. The period of non-compliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. 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.

Permittee:  
Ballenger Paving Company, Inc.

Permit Number: 777-5018-001-AC  
Expiration Date: April 30, 1997

9. In accepting this permit, the permittee understands and agrees that all reports, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Section 403.111 and 403.73, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
11. This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-730.300, FAC, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit, or a copy thereof, shall be kept at the work site of the permitted activity.
13. This permit constitutes:
  - ( ) Determination of Best Available Control Technology (BACT)
  - ( ) Determination of Prevention of Significant Deterioration (PSD)
  - ( ) Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)
  - ( ) Compliance with New Source Performance Standards
14. The permittee shall comply with the following:
  - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
  - b. The permittee shall hold at the facility, or other location designated by this permit, records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by this permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
  - c. Records of monitoring information shall include:
    1. the date, exact place, and time of sampling measurements;
    2. the person responsible for performing the sampling or measurements;
    3. the date(s) analyses were performed;
    4. the person responsible for performing the analyses;
    5. the analytical techniques or methods used;
    6. the results of such analyses
15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

Permittee:  
Ballenger Paving Company, Inc.

Permit Number: 777-5018-001-AC  
Expiration Date: April 30, 1997

**SPECIFIC CONDITIONS:**

1. Permittee shall notify the Department fifteen (15) days prior to Emission Unit (EU) testing in accordance with Rule 62-297.310(7)(a)(9), Florida Administrative Code (FAC), and Rule 2.1001, Jacksonville Environmental Protection Board (JEPB).
2. Copies of the test report(s) shall be submitted to the Department within forty-five (45) days of completion of testing in accordance with Rule 62-297.310(8)(b), FAC, and Rule 2.1001, JEPB.
3. Testing of emissions shall be conducted with the EU operating at permitted capacity. Permitted capacity is defined as 90-100 percent of the maximum operating rate allowed by the permit. If it is impracticable to test at permitted capacity, then EUs may be tested at less than capacity; in this case subsequent EU operation is limited to 110 percent of the test load until a new test is conducted. Once the EU is so limited, then operation at higher capacities is allowed for no more than 15 consecutive days for the purposes of additional compliance testing to regain the permitted capacity in the permit. [Rule 62-297.310(2), FAC, and Rule 1001, JEPB]
4. Any revision(s) to a permit (and application) shall be submitted to and approved by the Department prior to implementing.
5. Control equipment shall be provided with a method of access that is safe and readily accessible.
6. Stack sampling ports and platforms shall not be required.
7. The construction shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, the Department must be notified in writing sixty (60) days prior to the expiration of the construction permit. A new schedule and request for an extension of the construction permit must be submitted.
8. To obtain a permit to operate, the permittee must demonstrate compliance with the conditions of the construction permit and submit a complete application for an operating permit, including the application fee, along with compliance records and test results, to the Department ninety (90) days prior to the expiration date of the construction permit. The permittee may continue to operate in compliance with all terms of the construction permit until its expiration date. Operation beyond the construction permit expiration date requires a valid permit to operate.
9. If the construction permit expires prior to the permittee requesting an extension or obtaining a permit to operate, then all activities at the project must cease and the permittee must apply for a new permit to construct, which can take up to ninety (90) days to process a complete application.
10. The applicable emission limiting rules shall be as follows:

<u>EU No.</u>	<u>Pollutant</u>	<u>FAC</u>	<u>JEPB</u>	<u>Other</u>
001	Visible Emissions (VE)	62-296.414(1)	Rule 2.901	
002	Unconfined Emissions of Particulate Matter (UE)	62-296.320(4)(c)	Rule 2.901	

Permittee:  
Ballenger Paving Company, Inc.

Permit Number: 777-5018-001-AC  
Expiration Date: April 30, 1997

11. The maximum allowable emissions shall be as follows:

<u>EU. No.</u>	<u>Pollutant</u>	<u>lbs/hr</u>	<u>T/yr</u>	<u>Other</u>	<u>Opacity</u>
001	VE				5%
002	UE			Reasonable Precautions	

12. Reasonable precautions shall include, but shall not be limited to the following:

Aggregate storage areas - Maintain sufficient moisture content of material through use of water sprays or similar devices to minimize unconfined emissions.

Yard and road area - Remove particulate matter and wet these areas in such a manner as to prevent re-entrainment of particulate matter into the atmosphere.

13. Operation shall be limited to 8760 hours per year.

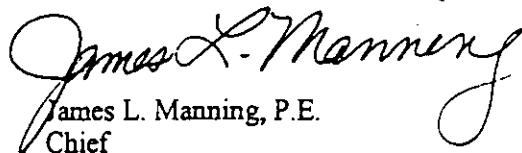
14. The maximum process weight shall be limited as follows:

Sand and Aggregate Transfer to Elevated Bin	211.95 yd <sup>3</sup> /hr
Cement and Flyash to Ground Storage Tankers	33.75 yd <sup>3</sup> /hr
Cement and Flyash to Silos	33.75 yd <sup>3</sup> /hr
Weigh hopper loading	270 yd <sup>3</sup> /hr
Mixer loading	270 yd <sup>3</sup> /hr

15. Testing for demonstration of compliance with the visible emission limiting standard shall be performed in accordance with DEP Method 9, as described in FAC, Chapter 62-297, (effective date November 23, 1994) and JEPB Rule 2.1001, (effective date January 11, 1995).

Executed in Jacksonville, Florida

City of Jacksonville  
Regulatory and Environmental Services Department  
Air & Water Quality Division

  
James L. Manning, P.E.  
Chief

JLM/DH/be

S:\Permit\7775018AC

Permittee:  
Ballenger Paving Company, Inc.

Permit Number: 777-5018-01-AC  
Expiration Date: April 30, 1997

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to S.120.52(7), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

*Denise Ross*  
Clerk

11/7/96  
Date