

Department of Environmental Protection

92
10/24/03

Division of Air Resources Management

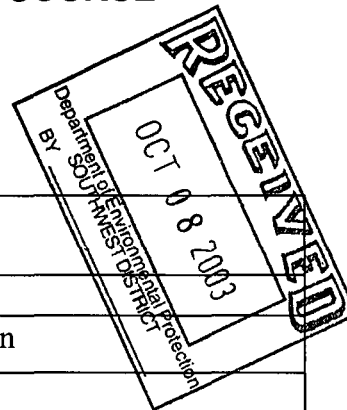
APPLICATION FOR AIR PERMIT - NON-TITLE V SOURCE

See Instructions for Form No. 62-210.900(3)

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name: C. W. Roberts Contracting, Inc.	
2. Site Name: Wildwood Asphalt Plant	
3. Facility Identification Number: 7775176 [] Unknown	
4. Facility Location: Street Address or Other Locator: 4208 County Road 124-A City: Wildwood County: Sumter Zip Code: 34785	
5. Relocatable Facility? [<input checked="" type="checkbox"/>] Yes [] No	6. Existing Permitted Facility? [<input checked="" type="checkbox"/>] Yes [] No

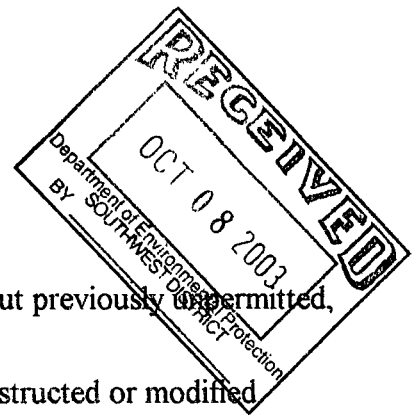


Application Contact

1. Name and Title of Application Contact: Maxwell R. Lee – Project Engineer	
2. Application Contact Mailing Address: Organization/Firm: Koogler and Associates Street Address: 4014 NW 13th Street City: Gainesville State: FL Zip Code: 32609	
3. Application Contact Telephone Numbers: Telephone: (352) 377-5822 Fax: (352) 377-7158	

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	
2. Permit Number:	



Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

- Initial non-Title V air operation permit for one or more existing, but previously unpermitted, emissions units.
- Initial non-Title V air operation permit for one or more newly constructed or modified emissions units.

Current construction permit number: 7775176-001-AC

- Non-Title V air operation permit revision to address one or more newly constructed or modified emissions units.

Current construction permit number: _____

Operation permit number to be revised: _____

- Initial non-Title V 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):

- Non-Title V 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 number to be revised: _____

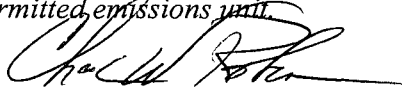
Reason for revision: _____

Air Construction Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

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

Owner/Authorized Representative

1. Name and Title of Owner/Authorized Representative: Charles W. Roberts, President
2. Owner/Authorized Representative Mailing Address: Organization/Firm: C. W. Roberts Contracting, Inc. Street Address: Hwy 20 East City: Hosford State: FL Zip Code: 32334
3. Owner/Authorized Representative Telephone Numbers: Telephone: (850) 379-8116 Fax: (850) 379-8188
4. Owner/Authorized Representative Statement: <i>I, the undersigned, am the owner or authorized representative* of the facility addressed in this application. 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>10/7/03</u>

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: Max Lee, Ph.D., P.E. Registration Number: 58091
2. Professional Engineer Mailing Address: Organization/Firm: Koogler and Associates Street Address: 4014 NW 13th Street City: Gainesville State: FL Zip Code: 32609
3. Professional Engineer Telephone Numbers: Telephone: (352) 377-5822 Fax: (352) 377-7158

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BY SOUTH-WEST DISTRICT

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 an air construction permit for one or more proposed new or modified emissions units (check here [] , 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 [X] , 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.

[Signature]

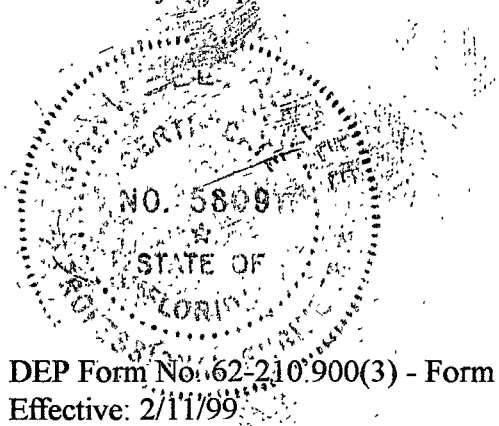
Signature

10/6/03

Date

(seal)

* Attach any exception to certification statement.



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Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
001	CMI Model PTD-400 drum mix asphalt concrete plant	AO2A	\$ 1500

Application Processing Fee

Check one: Attached - Amount: \$ 1500 Not Applicable

Construction/Modification Information

1. Description of Proposed Project or Alterations:

Project is to convert the construction permit to an operation permit.

2. Projected or Actual Date of Commencement of Construction:

3. Projected Date of Completion of Construction: **June 9, 2003**

Application Comment

N/A

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone: 17 East (km): 398 North (km): 3191.46			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): 28/54/03 Longitude (DD/MM/SS): 82/01/59			
3. Governmental Facility Code: 0	4. Facility Status Code: A	5. Facility Major Group SIC Code: 29	6. Facility SIC(s): 2951
7. Facility Comment (limit to 500 characters): NA			

Facility Contact

1. Name and Title of Facility Contact: Charles W. Roberts, President		
2. Facility Contact Mailing Address: Organization/Firm: C. W. Roberts Contracting, Inc. Street Address: P. O. Box 188 City: Hosford State: FL Zip Code: 32334		
3. Facility Contact Telephone Numbers: Telephone: (850) 379-8116 Fax: (850) 379-8188		

Facility Regulatory Classifications

Check all that apply:

1. <input type="checkbox"/> Small Business Stationary Source?	<input checked="" type="checkbox"/> Unknown
2. <input checked="" type="checkbox"/> Synthetic Non-Title V Source?	
3. <input checked="" type="checkbox"/> Synthetic Minor Source of Pollutants Other than HAPs?	
4. <input type="checkbox"/> Synthetic Minor Source of HAPs?	
5. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NSPS?	
6. <input type="checkbox"/> One or More Emission Units Subject to NESHAP Recordkeeping or Reporting?	
7. Facility Regulatory Classifications Comment (limit to 200 characters):	

Rule Applicability Analysis

<p><u>Florida Administrative Code (F.A.C.):</u></p> <p>62-4 through 62-297</p> <p><u>40 CFR 60, NSPS, Subpart I</u></p> <p>Standards of performance for asphalt plants</p>

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap		4. Basis for Emissions Cap	5. Pollutant Comment
		lb/hour	tons/year		
PM	B			RULE	NSPS Subpart I,
SO2	SM			ESCTV	Rule 62-210.300(3)(c)1.

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

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

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G 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.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input checked="" type="checkbox"/> 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).</p> <p><input type="checkbox"/> 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.</p> <p><input type="checkbox"/> 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.</p>		
<p>2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):</p> <p>CMI PTD-400 model drum mix asphalt concrete plant with CMI Roto-Aire Baghouse.</p>		
<p>3. Emissions Unit Identification Number:</p> <p>ID: 001</p>		<p><input type="checkbox"/> No ID</p> <p><input type="checkbox"/> ID Unknown</p>
<p>4. Emissions Unit Status</p> <p>Code: C</p>	<p>5. Initial Startup Date:</p> <p>NA</p>	<p>6. Emissions Unit Major Group SIC Code: 29</p>
<p>7. Emissions Unit Comment: (Limit to 500 Characters)</p>		

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method):

Fabric Filter high-temperature (T>250)

CMI Roto-Aire 318P Fabric Filter baghouse

W/ 600 exhaust fan, 250 HP, 4.7:1 air to cloth ratio

2. Control Device or Method Code(s): **016**

Emissions Unit Details

1. Package Unit:

Manufacturer:

Model Number:

2. Generator Nameplate Rating:

MW

3. Incinerator Information:

Dwell Temperature:

°F

Dwell Time:

seconds

Incinerator Afterburner Temperature:

°F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: **120 mmBtu/hr**

2. Maximum Incineration Rate: **NA** lb/hr

tons/day

3. Maximum Process or Throughput Rate: **NA**

4. Maximum Production Rate: **400 TPH asphaltic concrete**

5. Requested Maximum Operating Schedule:

24 hours/day

7 days/week

52 weeks/year

8760 hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

Request for limited operation in accordance with Rule 62-210.300(3)(c)1 requirements.

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? Stack		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA			
5. Discharge Type Code: V	6. Stack Height: 40 feet above	7. Exit Diameter: 4.4 feet	
8. Exit Temperature: 250 °F	9. Actual Volumetric Flow Rate: 68,000 acfm	10. Water Vapor: 25 %	
11. Maximum Dry Standard Flow Rate: 38,070 dscfm		12. Nonstack Emission Point Height: NA feet	
13. Emission Point UTM Coordinates: Zone: East (km): North (km):			
14. Emission Point Comment (limit to 200 characters):			

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 5

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Mineral Products: Asphaltic Concrete: Drum Dryer: Hot Asphalt Plants		
2. Source Classification Code (SCC): 3-05-002-05		3. SCC Units: Tons Produced
4. Maximum Hourly Rate: 400	5. Maximum Annual Rate: 500,000	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters): Annual production is limited to 500,000 tons in accordance with Rule 62-210.300(3)(c).		

Segment Description and Rate: Segment 2 of 5

1. Segment Description (Process/Fuel Type) (limit to 500 characters): In-process fuel use: Natural gas: general [Natural gas as fuel for drum mix asphalt plant]		
2. Source Classification Code (SCC): 3-90-006-99		3. SCC Units: Million cubic feet burned
4. Maximum Hourly Rate: 0.12	5. Maximum Annual Rate: 150	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: 1000 mmBtu/mmcf
10. Segment Comment (limit to 200 characters): Maximum heat input = 120 mmBtu/hr / 400 ton/hr = 0.3 mmBtu/ton asphalt At 1000 mmBtu/mmcf = 0.12 mmcf/hr 0.3 mmBtu/ton of asphalt x 500,000 tons/yr = 150,000 mmBtu/yr at 1000 mmBtu/mmcf = 150 mmcf/yr		

Emissions Unit Information Section 1 of 1

Segment Description and Rate: Segment 3 of 5

1. Segment Description (Process/Fuel Type) (limit to 500 characters): In-process fuel use: distillate oil: Asphalt Dryer [No. 2 fuel oil as fuel for drum mix asphalt plant]		
2. Source Classification Code (SCC): 3-90-005-01		3. SCC Units: Thousand gallons burned (TGB)
4. Maximum Hourly Rate: 0.85	5. Maximum Annual Rate: 1200	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: 0.5	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: 141 mmBtu/TGB
10. Segment Comment (limit to 200 characters): Maximum heat input = 120 mmBtu/hr = 0.3 mmBtu/ton asphalt At 140 mmBtu/TGB = 0.85 TGB/hr Annual fuel oil usage is limited to 1.2 million gallons in accordance with Rule 62-210.300(3)(c).		

Segment Description and Rate: Segment 4 of 5

1. Segment Description (Process/Fuel Type) (limit to 500 characters): In-process fuel use: residual oil: Asphalt Dryer [No. 3, 4, and 5 fuel oil as fuel for drum mix asphalt plant]		
2. Source Classification Code (SCC): 3-90-004-99		3. SCC Units: Thousand gallons burned (TGB)
4. Maximum Hourly Rate: 0.80	5. Maximum Annual Rate: 1200	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: 1.0	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: 142 mmBtu/TGB
10. Segment Comment (limit to 200 characters): Maximum heat input = 120 mmBtu/hr = 0.3 mmBtu/ton asphalt At 150 mmBtu/TGB = 0.80 TGB/hr Annual fuel oil usage is limited to 1.2 million gallons in accordance with Rule 62-210.300(3)(c).		

Segment Description and Rate: Segment 5 of 5

<p>1. Segment Description (Process/Fuel Type) (limit to 500 characters):</p> <p>In-process fuel use: On-spec used oil: Asphalt Dryer</p> <p>[Used oil as fuel for drum mix asphalt plant]</p>		
<p>2. Source Classification Code (SCC): 3-90-005-01</p>		<p>3. SCC Units: Thousand gallons burned (TGB)</p>
<p>4. Maximum Hourly Rate: 0.89</p>	<p>5. Maximum Annual Rate: 1200</p>	<p>6. Estimated Annual Activity Factor: NA</p>
<p>7. Maximum % Sulfur: 1.0</p>	<p>8. Maximum % Ash: NA</p>	<p>9. Million Btu per SCC Unit: 135 mmBtu/TGB</p>
<p>10. Segment Comment (limit to 200 characters):</p> <p>Maximum heat input = 120 mmBtu/hr = 0.3 mmBtu/ton asphalt</p> <p>At 135 mmBtu/TGB = 0.89 TGB/hr</p> <p>Annual fuel oil usage is limited to 1.2 million gallons in accordance with Rule 62-210.300(3)(c).</p>		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**Potential Emissions**

1. Pollutant Emitted: PM		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 016	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:	
6. Potential Emissions: 13.05 lb/hour 8.2 tons/year		7. Synthetically Limited? [X]	
8. Emission Factor: 0.04 gr/dscf Reference: NSPS Subpart I		9. Emissions Method Code: 0	
10. Calculation of Emissions (limit to 600 characters): 0.04 gr/dscf x 38,070 dscfm x 60 min/hr x 1.0 lb/7000 grains = 13.05 lb/hr at 400 ton/hr = 0.0326 lb/ton *500,000 tons/yr x 0.0326 lb/ton x 1.0 ton/ 2000 lb = 8.2 TPY			
11. Pollutant Potential Emissions Comment (limit to 200 characters): * Annual production is limited to 500,000 tons in accordance with Rule 62-210.300(3)(c).			

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: Rule 40 CFR 60.92	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units: 0.04 gr/dscfm	4. Equivalent Allowable Emissions: 13.05 lb/hour 8.2 tons/year
5. Method of Compliance (limit to 60 characters): Method 5	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**Potential Emissions**

1. Pollutant Emitted: SO2		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:	
6. Potential Emissions: 23.2 lb/hour 14.5 tons/year		7. Synthetically Limited? [X]	
8. Emission Factor: 0.058 lb/ton Reference: AP-42, Ver 12/00, Table 11.1-7		9. Emissions Method Code: 3	
10. Calculation of Emissions (limit to 600 characters): 400 ton/hr x 0.058 lb/ton = 23.2 lb/hr 500,000 tons/yr x 0.058 lb/ton x 1.0 ton/ 2000 lb = 14.5 TPY			
11. Pollutant Potential Emissions Comment (limit to 200 characters): Annual production is limited to 500,000 tons in accordance with Rule 62-210.300(3)(c).			

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: ESCTV		2. Future Effective Date of Allowable Emissions: NA	
3. Requested Allowable Emissions and Units: 1% sulfur fuel oil		4. Equivalent Allowable Emissions: 113.3 lb/hour 85 tons/year	
5. Method of Compliance (limit to 60 characters): Fuel oil sulfur analysis by vendor			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): Annual fuel oil usage is limited to 1.2 million gallons in accordance with Rule 62-210.300(3)(c)1. No. 3 fuel oil at approx. 7.08 lb/gal(AP-42, App. A), 150 mmBTU/TGB (AP-42, App. A) = 800 gal/hr, 1.0% sulfur. 1,200,000 gal/yr x 7.08 lb/gal x 0.01 S x 2 SO2/S x 1.0 ton/2000 lb = 85 tpy. 120 mmBTU/hr x TGB/150 mmBTU x 7.08 lb/gal x 0.01 S x 2 SO2/S = 113.3 lb/hr			

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

<p>1. Process Flow Diagram <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested</p>
<p>2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested</p>
<p>3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested</p>
<p>4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested</p>
<p>5. Compliance Test Report <input checked="" type="checkbox"/> Attached, Document ID: <u> 001 </u> <input type="checkbox"/> Previously submitted, Date: _____ <input type="checkbox"/> Not Applicable</p>
<p>6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested</p>
<p>7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested</p>
<p>8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable</p>
<p>10. Supplemental Requirements Comment: Baghouse O&M Plan in Attachment 002</p>

ATTACHMENT 001
INITIAL COMPLIANCE TEST REPORT

ATTACHMENT 002

BAGHOUSE OPERATION AND MAINTENANCE PLAN

**BAGHOUSE OPERATION AND
MAINTENANCE PLAN**

**C. W. Roberts Construction Company
Wildwood Asphalt Plant**

**Sumter County, Florida
Facility ID No. 7775176**

Operation and Maintenance Plan

This section establishes the use of parameters to monitor plant operation such as pressure differentials and visible emissions. The Company conducts reasonable monitoring to assure continued compliance with the terms and conditions of the permit. The monitoring will be carried out in the manner prescribed in this Plan.

All asphalt plants have a small amount of fines aggregate carryout from the dryer or the drum mixer. In order to meet federal and state air quality codes, emission control equipment is necessary to capture particulate emissions that might otherwise be released into the atmosphere. During the dust filtering operation, material is collected by the filter elements causing a reduction in porosity. In order to control the pressure differential across the filters, a cyclic timer periodically shuts off flow to an alternating portion of the bags elements. Air flow is then reversed through these bags to remove particulate and clean the bags. Following the cleaning, exhaust gas flow is again directed through the bags until bag pressure indicates cleaning is required. This cleaning process will sequentially occur through alternating portions bag elements.

The pressure drop across the baghouse is a useful parameter to monitor baghouse performance. A given baghouse will operate within a pressure drop range. The facility uses an automated computer-controlled CMI Roto-Aire 318P Fabric Filter baghouse to maintain proper baghouse operation. The baghouse computer system is programmed to modify the cycling time of the bag flushing in order to maintain the operational baghouse pressure drop at 2 to 6 inches of H₂O. The baghouse parameters that may affect the pressure drop generally include the following indicators:

- Gas flowrate
- Air to cloth ratio
- Bag Weave
- Bag material
- Gas temperature, inlet and outlet
- Bag cleaning conditions:
- Pulse: Air pressure

The computer control panel is located in the plant control house and will alert the plant operator if the baghouse pressure drop exceeds the acceptable range of 2 to 6 inches of H₂O.

If the automated baghouse control system alerts the plant operator that the pressure exceeds the ranges, the operator must determine the cause of the exceedance. The following parameters can cause an exceedance.

A pressure drop much lower than the lower end of the operating range could indicate:

- New bags which have not developed a filter cake
- Bag failure
- Baghouse structural failure
- Cyclone or ductwork structural failure

A pressure drop much higher than the upper end of the operating range could indicate:

- Plugged bags
- Blocked stack
- Fan malfunction
- Plugged ductwork

Any pressure drop values which fall significantly outside the operating range will be noted. An appropriate investigation will follow, to determine the cause of the variation and to evaluate any attendant effect on visible emissions.

Additionally, the permit requires annual particulate matter testing using EPA Method 5, to determine compliance with Department rules and the New Source Performance Standard. Each such annual testing event will provide an opportunity to evaluate a possible correlation between baghouse pressure drop, opacity and particulate matter emission rate.

This section establishes a plant specific Operation and Maintenance (“O&M”) Plan. This element provides reasonable assurance that the facility can be effectively operated and maintained, through reasonable provisions for the operation and maintenance of the facility. Routine maintenance of equipment will be performed as needed to assure optimal operation. The facility shall be operated to control objectionable odors in accordance with Rule 62-296.320(2), F.A.C. Fuels, solvents, lubricants, and other maintenance materials shall be stored in approved areas.

The following Operation and Maintenance plan includes a schedule for the maintenance and inspection of the plant.

DAILY

1. Check pressure drop across baghouse and record in log sheet.
2. Observe stack outlet visually to assure there are no excessive visible emissions.
3. Check cleaning cycle of baghouse.

MONTHLY

1. Spot check for bag leaks and holes.

ANNUALLY

1. Check bag-cleaning sequence.
2. Check exhaust fan blades for wear.
3. Check gasket on all doors.

**BAGHOUSE OPERATION AND
MAINTENANCE PLAN**

**C. W. Roberts Construction Company
Wildwood Asphalt Plant**

**Sumter County, Florida
Facility ID No. 7775176**

Operation and Maintenance Plan

This section establishes the use of parameters to monitor plant operation such as pressure differentials and visible emissions. The Company conducts reasonable monitoring to assure continued compliance with the terms and conditions of the permit. The monitoring will be carried out in the manner prescribed in this Plan.

All asphalt plants have a small amount of fines aggregate carryout from the dryer or the drum mixer. In order to meet federal and state air quality codes, emission control equipment is necessary to capture particulate emissions that might otherwise be released into the atmosphere. During the dust filtering operation, material is collected by the filter elements causing a reduction in porosity. In order to control the pressure differential across the filters, a cyclic timer periodically shuts off flow to an alternating portion of the bags elements. Air flow is then reversed through these bags to remove particulate and clean the bags. Following the cleaning, exhaust gas flow is again directed through the bags until bag pressure indicates cleaning is required. This cleaning process will sequentially occur through alternating portions bag elements.

The pressure drop across the baghouse is a useful parameter to monitor baghouse performance. A given baghouse will operate within a pressure drop range. The facility uses an automated computer-controlled CMI Roto-Aire 318P Fabric Filter baghouse to maintain proper baghouse operation. The baghouse computer system is programmed to modify the cycling time of the bag flushing in order to maintain the operational baghouse pressure drop at 2 to 6 inches of H₂O. The baghouse parameters that may affect the pressure drop generally include the following indicators:

- Gas flowrate
- Air to cloth ratio
- Bag Weave
- Bag material
- Gas temperature, inlet and outlet
- Bag cleaning conditions:
- Pulse: Air pressure

The computer control panel is located in the plant control house and will alert the plant operator if the baghouse pressure drop exceeds the acceptable range of 2 to 6 inches of H₂O.

If the automated baghouse control system alerts the plant operator that the pressure exceeds the ranges, the operator must determine the cause of the exceedance. The following parameters can cause an exceedance.

A pressure drop much lower than the lower end of the operating range could indicate:

- New bags which have not developed a filter cake
- Bag failure
- Baghouse structural failure
- Cyclone or ductwork structural failure

A pressure drop much higher than the upper end of the operating range could indicate:

- Plugged bags
- Blocked stack
- Fan malfunction
- Plugged ductwork

Any pressure drop values which fall significantly outside the operating range will be noted. An appropriate investigation will follow, to determine the cause of the variation and to evaluate any attendant effect on visible emissions.

Additionally, the permit requires annual particulate matter testing using EPA Method 5, to determine compliance with Department rules and the New Source Performance Standard. Each such annual testing event will provide an opportunity to evaluate a possible correlation between baghouse pressure drop, opacity and particulate matter emission rate.

This section establishes a plant specific Operation and Maintenance (“O&M”) Plan. This element provides reasonable assurance that the facility can be effectively operated and maintained, through reasonable provisions for the operation and maintenance of the facility. Routine maintenance of equipment will be performed as needed to assure optimal operation. The facility shall be operated to control objectionable odors in accordance with Rule 62-296.320(2), F.A.C. Fuels, solvents, lubricants, and other maintenance materials shall be stored in approved areas.

The following Operation and Maintenance plan includes a schedule for the maintenance and inspection of the plant.

DAILY

1. Check pressure drop across baghouse and record in log sheet.
2. Observe stack outlet visually to assure there are no excessive visible emissions.
3. Check cleaning cycle of baghouse.

MONTHLY

1. Spot check for bag leaks and holes.

ANNUALLY

1. Check bag-cleaning sequence.
2. Check exhaust fan blades for wear.
3. Check gasket on all doors.

**BAGHOUSE OPERATION AND
MAINTENANCE PLAN**

**C. W. Roberts Construction Company
Wildwood Asphalt Plant**

**Sumter County, Florida
Facility ID No. 7775176**

Operation and Maintenance Plan

This section establishes the use of parameters to monitor plant operation such as pressure differentials and visible emissions. The Company conducts reasonable monitoring to assure continued compliance with the terms and conditions of the permit. The monitoring will be carried out in the manner prescribed in this Plan.

All asphalt plants have a small amount of fines aggregate carryout from the dryer or the drum mixer. In order to meet federal and state air quality codes, emission control equipment is necessary to capture particulate emissions that might otherwise be released into the atmosphere. During the dust filtering operation, material is collected by the filter elements causing a reduction in porosity. In order to control the pressure differential across the filters, a cyclic timer periodically shuts off flow to an alternating portion of the bags elements. Air flow is then reversed through these bags to remove particulate and clean the bags. Following the cleaning, exhaust gas flow is again directed through the bags until bag pressure indicates cleaning is required. This cleaning process will sequentially occur through alternating portions bag elements.

The pressure drop across the baghouse is a useful parameter to monitor baghouse performance. A given baghouse will operate within a pressure drop range. The facility uses an automated computer-controlled CMI Roto-Aire 318P Fabric Filter baghouse to maintain proper baghouse operation. The baghouse computer system is programmed to modify the cycling time of the bag flushing in order to maintain the operational baghouse pressure drop at 2 to 6 inches of H₂O. The baghouse parameters that may affect the pressure drop generally include the following indicators:

- Gas flowrate
- Air to cloth ratio
- Bag Weave
- Bag material
- Gas temperature, inlet and outlet
- Bag cleaning conditions:
- Pulse: Air pressure

The computer control panel is located in the plant control house and will alert the plant operator if the baghouse pressure drop exceeds the acceptable range of 2 to 6 inches of H₂O.

If the automated baghouse control system alerts the plant operator that the pressure exceeds the ranges, the operator must determine the cause of the exceedance. The following parameters can cause an exceedance.

A pressure drop much lower than the lower end of the operating range could indicate:

- New bags which have not developed a filter cake
- Bag failure
- Baghouse structural failure
- Cyclone or ductwork structural failure

A pressure drop much higher than the upper end of the operating range could indicate:

- Plugged bags
- Blocked stack
- Fan malfunction
- Plugged ductwork

Any pressure drop values which fall significantly outside the operating range will be noted. An appropriate investigation will follow, to determine the cause of the variation and to evaluate any attendant effect on visible emissions.

Additionally, the permit requires annual particulate matter testing using EPA Method 5, to determine compliance with Department rules and the New Source Performance Standard. Each such annual testing event will provide an opportunity to evaluate a possible correlation between baghouse pressure drop, opacity and particulate matter emission rate.

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1. Check pressure drop across baghouse and record in log sheet.
2. Observe stack outlet visually to assure there are no excessive visible emissions.
3. Check cleaning cycle of baghouse.

MONTHLY

1. Spot check for bag leaks and holes.

ANNUALLY

1. Check bag-cleaning sequence.
2. Check exhaust fan blades for wear.
3. Check gasket on all doors.