

# Department of Environmental Protection

## Division of Air Resources Management

### APPLICATION FOR AIR PERMIT – NON-TITLE V SOURCE

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

**RECEIVED**  
OCT 29 1999

Department of Environmental Protection  
BY SOUTHWEST DISTRICT

#### I. APPLICATION INFORMATION

##### Identification of Facility

1. Facility Owner/Company Name: <b>Dwight Daughtrey / Daughtrey Construction, Inc.</b>	
2. Site Name: <b>Daughtrey Construction, Inc.</b>	
3. Facility Identification Number: <b>0270013</b> [ ] Unknown	
4. Facility Location: Street Address or Other Locator: <b>6816 SW C.R. 769</b> City: <b>Arcadia</b> County: <b>Desoto</b> Zip Code: <b>33821</b> <span style="float: right; margin-right: 20px;">34266</span>	
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: <b>Thomas Siegert, Project Director</b>	
2. Application Contact Mailing Address: Organization/Firm: <b>South Florida Environmental Services</b> Street Address: <b>6821 Vista Parkway North</b> City: <b>West Palm Beach</b> State: <b>FL</b> Zip Code: <b>33411</b>	
3. Application Contact Telephone Numbers: Telephone: <b>(561)687-5300</b> Fax: <b>(561)687-3676</b>	

##### Application Processing Information (DEP Use)

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

**Purpose of Application**

**Air Operating 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: 0270013-001-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 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 or Responsible Official: <b>Mr. Dwight Daughtrey, Owner</b>
2. Owner/Authorized Representative or Responsible Official Mailing Address: Organization/Firm: <b>Daughtrey Construction, Inc.</b> Street Address: <b>6816 SW C.R. 769</b> City: <b>Arcadia</b> State: <b>FL</b> Zip Code: <b>33821</b> <sup>34266</sup>
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: <b>(941) 494-4108</b> Fax: <b>(941) 494-6030</b>
4. Owner/Authorized Representative or Responsible Official 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>10-27-99</u>

- Attach letter of authorization if not currently on file.

**Professional Engineer Certification**

1. Professional Engineer Name: <b>Dr. S.E. Belaidi, PE</b> Registration Number: <b>036751</b>
2. Professional Engineer Mailing Address: Organization/Firm: <b>General Mechanics Consulting Engineers</b> Street Address: <b>4022 South Cypress Dr.</b> City: <b>Pompano Beach</b> State: <b>FL</b> Zip Code: <b>33069</b>
3. Professional Engineer Telephone Numbers: Telephone: <b>(954) 648-9144</b> Fax: <b>(954) 984-9144</b>

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 [ ] 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.*

*Dr. S. F. Belach, P.E.*  
Signature \_\_\_\_\_  
Date \_\_\_\_\_

*October 14, 99*

Attach any exception to certification statement.

**Scope of Application**

<b>Emissions Unit ID</b>	<b>Description of Emissions Unit</b>	<b>Permit Type</b>	<b>Processing Fee</b>
001	Portable Air Curtain Incinerator	AO2B	\$1,000

**Application Processing Fee**

Check one:  Attached - Amount: \$ 1,000  Not Applicable.

**Construction/Modification Information**

1. Description of Proposed Project or Alterations:  
N/A

2. Projected or Actual Date of Commencement of Construction: N/A

3. Projected Date of Completion of Construction: N/A

**Application Comment**

**Application fee is per Rule 62-4.050(3)(c), F.A.C.**

**This application is submitted for an Air Operating Permit for a Portable Air Curtain Incinerator (35' long x 10' wide x 11' deep). The incinerator will be used for disposal of lumber and tree debris, vegetation, and lot clearing materials. The Air Burners, Inc., Model T-359 air curtain was constructed by Daughtrey Construction, Inc. For particulate control.**

**Visible emissions (EPA Method 9) will be conducted annually for a period of thirty(30) minutes during a start up period and an additional sixty(60) minutes during normal operation.**



**Facility Regulatory Classifications**

**Check all that apply:**

1. <input checked="" type="checkbox"/> Small Business Stationary Source?	<input type="checkbox"/> Unknown
2. <input type="checkbox"/> Synthetic Non-Title V Source?	
3. <input type="checkbox"/> Synthetic Minor Source of Pollutants Other than HAPs?	
4. <input type="checkbox"/> Synthetic Minor Source of HAPs?	
5. <input 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): <b>This facility is regulated according to Rule 62-296.401, Rule 62-210.700, Rule 62-210.300, Rule 62-4.160, and Rule 62-4.070, F.A.C.</b>	

**Rule Applicability Analysis**

N/A



**B. FACILITY POLLUTANTS**

**List of Pollutant 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	4.88	0.429	Rule	
SO2	B	0.25	0.022	Rule	
NOx	B	10.0	0.88	Rule	

**C. FACILITY SUPPLEMENTAL INFORMATION**

**Supplemental Requirements**

1. Area Map Showing Facility Location: <input checked="" type="checkbox"/> Attached, Document ID: <u>01</u> [ ] Not Applicable [ ] Waiver Requested
2. Facility Plot Plan: [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable [ ] Waiver Requested
3. Process Flow Diagram(s): <input checked="" type="checkbox"/> Attached, Document ID: <u>02</u> [ ] Not Applicable [ ] Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable [ ] Waiver Requested
5. Supplemental Information for Construction Permit Application: [ ] Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
6. Supplemental Requirements Comment: N/A

**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 Address in This Section: (Check one)</p> <p><input 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 checked="" 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):  <b>Air Curtain Incinerator (4.5 tons/hour).</b></p>		
<p>3. Emissions Unit Identification Number: <input type="checkbox"/> No ID                  ID: 001 <input type="checkbox"/> ID Unknown</p>		
<p>4. Emissions Unit Status                  Code: <b>A</b></p>	<p>5. Initial Startup Date:  <b>6.10.99</b></p>	<p>6. Emissions Unit Major                  Group SIC Code: <b>99</b></p>

7. Emissions Unit Comment (limit to 500 characters):

**A portable combustion device that directs a plane of high velocity forced draft through a manifold head into a pit with vertical walls which maintains a curtain of air over the pit and a re-circulating motion of air under the curtain. The pit is not refractory lined, therefore charging of the unit must cease two(2) hours before sunset as per Rule 62-296.401 (7) (h), F.A.C.**

**Emissions Unit Control Equipment**

<p>1. Control Equipment/Method Description (limit to 200 characters per device or method):  <b>A portable combustion device that directs a plane of high velocity forced draft through a manifold head into a pit with vertical walls which maintains a curtain of air over the pit and a re-circulating motion of air under the curtain.</b></p>
<p>2. Control Device or Method Code:  <b>031</b></p>

**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:		mmBtu/hr
2. Maximum Incineration Rate:	9000 lb/hr	tons/day
3. Maximum Process or Throughput Rate:		
4. Maximum Production Rate:		
5. Requested Maximum Operating Schedule:		
	hours/day	days/week
	weeks/year	1,088 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):		

...the emission point is approximately 3 to 10' above the surface of the incineration pit.

4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:

5. Discharge Type Code: <b>F</b>	6. Stack Height:  feet	7. Exit Diameter:  feet
8. Exit Temperature: <b>~2000 °F</b>	9. Actual Volumetric Flow Rate:  Acfm	10. Water Vapor:  %
11. Maximum Dry Standard Flow Rate:  dscfm	12. Nonstack Emission Point Height:  <b>0</b> feet	
13. Emission Point UTM Coordinates: Zone: <b>17</b> East (km): <b>402.0</b> North (km): <b>3001.2</b>		
14. Emission Point Comment (limit to 200 characters): <b>Any emissions are controlled by the air curtain which is at ground level.</b>		

**C SEGMENT (PROCESS/FUEL) INFORMATION**

**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 % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

**Segment Description and Rate:** Segment   1   of   1  

1. Segment Description (Process/Fuel Type) (limit to 500 characters): <b>Lumber, tree debris or vegetation</b>		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate: <b>4.5 ton/hr</b>	5. Maximum Annual Rate: <b>4896 ton/yr</b>	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: <b>N/A</b>	8. Maximum % Ash: <b>N/A</b>	9. Million Btu per SCC Unit: <b>N/A</b>
10. Segment Comment (limit to 200 characters):		

**D. EMISSIONS UNIT POLLUTANTS DETAIL INFORMATION**

**Potential Emissions**

1. Pollutant Emitted: <b>PM</b>		2. Pollutant Regulatory Code: <b>EL</b>	
3. Primary Control Device: <b>031</b>	4. Secondary Control Device Code: <b>N/A</b>	5. Total Percent Efficiency of Control: <b>85%</b>	
6. Potential Emissions: <b>8.775 lb/hour                      4.774 tons/yr</b>		7. Synthetically Limited? [   ]	
8. Emission Factor: <b>13 lb/ton</b>  Reference: <b>AP 42</b>		9. Emissions Method Code: <b>3</b>	
10. Calculation of Emissions (limit to 600 characters): $13 \text{ lb/tn} \times (1-.85) \times 4.5 \text{ tn/hr} = 8.775 \text{ lb/hr}$ $8.775 \text{ lb/hr} \times 1,088 \text{ hr/yr} = 9547.2 \text{ lb/yr}$ $9547.2 \text{ lb/yr} / 2000 \text{ lb/tn} = 4.774 \text{ tn/hr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters): <b>Below the threshold of 5.0 ton/yr</b>			

**Allowable Emissions** Allowable Emissions \_\_\_\_\_ of \_\_\_\_\_

1. Basis for Allowable Emissions Code: <b>Rule</b>	2. Future Effective Date of Allowable Emissions: <b>N/A</b>
3. Requested Allowable Emissions and Units: <b>Other</b>	4. Equivalent Allowable Emissions: <b>8.775 lb/hour                      4.774 tons/year</b>
5. Method of Compliance (limit to 60 characters): <b>Compliance will be demonstrated by EPA Method 9 as found in 40CFR60 Appendix A, as amended.</b>	
6. Allowable Emissions Comment (Desc. Of Operating Method)(limit to 200 characters): <b>35% opacity during startup, then 5% opacity for one hour except for 20% opacity for any three minutes during the hour period.</b>	



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

**E. VISIBLE EMISSIONS INFORMATION**  
**(Only Emissions Units Subject to a VE Limitation)**

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

1. Visible Emissions Subtype: <b>VE35 &amp; VE5</b>	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Requested Allowable Opacity: Normal Conditions: <b>5%</b> Exceptional Conditions: <b>20%</b> Maximum Period of Excess Opacity Allowed: <b>3min/hour</b>	
4. Method of Compliance: <b>EPA Method 9</b>	
5. Visible Emissions Comment (limit to 200 characters): <b>35% during startup (30min), then 5% for sixty minutes except 20% for three minutes in any hour.</b>	

**F. CONTINUOUS MONITOR INFORMATION**  
**(Only Emissions Units Subject to Continuous Monitoring)**

**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:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

**G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION**

**Supplemental Requirements**

1. Process Flow Diagram <input checked="" 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 checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input checked="" 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 checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input checked="" 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 checked="" type="checkbox"/> Not Applicable
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment: