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)

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name: **Daughtrey Construction**	
2. Site Name: **Daughtrey Construction**	
3. Facility Identification Number: **0270013**	[ ] Unknown
4. Facility Location: Street Address or Other Locator: **6816 SW C.R. 769** City: **Arcadia** County: **Desoto** Zip Code: **33821**	
5. Relocatable Facility? [X] Yes [ ] No	6. Existing Permitted Facility? [X] Yes [ ] No

Application Contact

1. Name and Title of Application Contact: **Thomas Siegert, Project Director**	
2. Application Contact Mailing Address: Organization/Firm: **South Florida Environmental Services** Street Address: **6821 Vista Parkway North** City: **West Palm Beach** State: **FL** Zip Code: **33411**	
3. Application Contact Telephone Numbers: Telephone: **(561)687-5300**	Fax: **(561)687-3676**

Application Processing Information (DEP Use)

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

RECEIVED
AUG 31 1999
Department of Environmental Protection
BY SOUTHWEST DISTRICT

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.

[X] 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 of 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:
   Mr. Dwight Daughtrey, Owner

2. Owner/Authorized Representative or Responsible Official Mailing Address:
   Organization/Firm: **Daughtrey Construction**
   Street Address: **6816 SW C.R. 769**
   City: **Arcadia** State: **FL** Zip Code: **33821**

3. Owner/Authorized Representative or Responsible Official Telephone Numbers:
   Telephone: **(941) 494-4108** Fax: **(941) 494-6030**

4. Owner/Authorized Representative or Responsible Official Statement:

   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.*

   Dwight Daughtrey
   Signature

   8-30-99
   Date

- Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: Dr. S. E. Beladi, PE
   Registration Number: 036751

2. Professional Engineer Mailing Address:
   Organization/Firm: General Mechanics Consulting Engineers.
   Street Address: 4022 South Cypress Dr.
   City: Pompano Beach State: Fl. Zip Code: 33069

3. Professional Engineer Telephone Numbers:
   Telephone: (954) 648-9144 Fax: (954) 984-9053

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.

A. E. Beladi, PhD, PE Aug 25, 1999

Signature Date

(seal)

* Attach any exception to certification statement.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
001	Portable Air Curtain Incinerator	AO2B	$1,000

Application Processing Fee

Check one: [X] 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 Protable Air Curtain Incinerator (40' long x 16' 1" wide). The incinerator will be used for disposal of lumber and tree debris, vegetation, and lot clearing materials. The Waukesha Pit Burner Machine was constructed by Dwight Daughtrey Construction, Inc. For particulate control. (Air flow 100 MPH to 150 MPH)

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.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone: **17** East (km): **402.0** North (km): **3001.2**			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): **27° 08' 00"** Longitude (DD/MM/SS): **82° 00' 00"**			
3. Governmental Facility Code: **0**	4. Facility Status Code: **A**	5. Facility Major Group SIC Code: **99**	6. Facility SIC(s):
7. Facility Comment (limit to 500 characters):			

Facility Contact

1. Name and Title of Facility Contact: **Dwight Daughtrey, Owner**
2. Facility Contact Mailing Address: Organization/Firm: **Daughtrey Construction** Street Address: **6816 SW C.R. 769** City: **Arcadia** State: **FL** Zip Code: **33821**
3. Facility Contact Telephone Numbers: Telephone: **(941) 494-4108** Fax: **(941) 494-6030**

Facility Regulatory Classifications

Check all that apply:

1.	[X] Small Business Stationary Source? [ ] Unknown
2.	[ ] Synthetic Non-Title V Source?
3.	[ ] Synthetic Minor Source of Pollutants Other than HAPs?
4.	[ ] Synthetic Minor Source of HAPs?
5.	[ ] One or More Emissions Units Subject to NSPS?
6.	[ ] One or More Emission Units Subject to NESHAP Recordkeeping or Reporting?
7.	Facility Regulatory Classifications Comment (limit to 200 characters): **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.**

Rule Applicability Analysis

N/A

B. FACILITY POLLUTANTS

List of Pollutant Emitted

1.Pollutant Emitted	2. Pollutant Classif.	3.Requested Emissions Cap lb/hour	tons/year	4. Basis for Emissions Cap	5. Pollutant Comment
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: [X] Attached, Document ID: 01 [ ] Not Applicable [ ] Waiver Requested
2. Facility Plot Plan: [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Process Flow Diagram(s): [X] Attached, Document ID: 02 [ ] Not Applicable [ ] Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Supplemental Information for Construction Permit Application: [ ] Attached, Document ID:_____ [X] 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

1. Type of Emissions Unit Address in This Section: (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.

[X] 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.

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
Air Curtain Incinerator (2.5 tons/hour).

3. Emissions Unit Identification Number:
ID: **001**
[ ] No ID
[ ] ID Unknown

4. Emissions Unit Status Code: **A**	5. Initial Startup Date: **6.10.99**	6. Emissions Unit Major Group SIC Code: **99**

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 recirculating motion of air under the curtain.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): **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 recirculating motion of air under the curtain.**
2. Control Device or Method Code: **031**

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:	**5000** lb/hr	tons/day
3. Maximum Process or Throughput Rate:		
4. Maximum Production Rate:		
5. Requested Maximum Operating Schedule:		
	8 hours/day	**2** days/week
	11 weeks/year	**176** hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):		

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram:	2. Emission Point Type Code: **4**	
3. Descriptions of Emissions Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): **The emissions point is approximately 5 to 10' above the surface of the incineration pit.**		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **N/A**		
5. Discharge Type Code: **F**	6. Stack Height: feet	7. Exit Diameter: feet
8. Exit Temperature: **~2000 °F**	9. Actual Volumetric Flow Rate: Acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: **0** feet	
13. Emission Point UTM Coordinates: Zone: **17** East (km): **402.0** North (km): **3001.2**		
14. Emission Point Comment (limit to 200 characters): **Any emissions are controlled by the air curtain which is at ground level.**		

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): **Lumber, tree debris or vegetation**		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate: **2.5 ton/hr**	5. Maximum Annual Rate: **440 ton/yr**	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **N/A**
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANTS DETAIL INFORMATION

Potential Emissions

1.Pollutant Emitted: **PM**	2. Pollutant Regulatory Code: **EL**	
3.Primary Control Device: **031**	4.Secondary Control Device Code: **N/A**	5.Total Percent Efficiency of Control: **85%**
6.Potential Emissions: **4.88** lb/hour **0.429** tons/yr		7.Synthetically Limited? [ ]
8.Emission Factor: **13 lb/ton** Reference: **AP 42**		9.Emissions Method Code: **3**
10.Calculation of Emissions (limit to 600 characters): **13 lb/tn x (1-.85) x 2.5 tn/hr = 4.875 lb/hr** **4.875 lb/hr x 176 hr/yr = 858 lb/yr** **858 lb/yr / 2000 lb/tn = 0.429 tn/hr**		
11.Pollutant Potential Emissions Comment (limit to 200 characters): **Well below the threshold of 5.0 ton/yr**		

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code: **Rule**	2. Future Effective Date of Allowable Emissions: **N/A**
3. Requested Allowable Emissions and Units: **Other**	4. Equivalent Allowable Emissions: **4.875** lb/hour **0.429** tons/year
5. Method of Compliance (limit to 60 characters): **Compliance will be demonstrated by EPA Method 9 as found in 40CFR60 Appendix A, as amended.**	
6. Allowable Emissions Comment (Desc. Of Operating Method)(limit to 200 characters): **35% opacity during startup, then 5% opacity for one hour except for 20% opacity for any three minutes during the hour period.**	

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

Visible Emissions Limitation: Visible Emissions Limitation _____ of _____

1. Visible Emissions Subtype: **VE35 & VE5**	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **5%** Exceptional Conditions: **20%** Maximum Period of Excess Opacity Allowed: **3min/hour**	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment (limit to 200 characters): **35% during startup (30min), then 5% for sixty minutes except 20% for three minutes in any hour.**	

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:	[ ] Rule [ ] 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 [X] Attached, Document ID:_____ [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [X] Attached, Document ID:_____ [ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [X] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment:

South Florida Environmental Services

VISIBLE EMISSIONS TEST REPORT

PREPARED FOR:
Daughtrey Construction, Inc.
6816 SW County Rd. 769
Arcadia, FL 34266

CONCERNING:
Daughtrey Construction, Inc.
Air Curtain Incinerator
6816 SW County Road 769
Arcadia, FL
June 25, 1999

PREPARED BY:
Tom Siegert
Project Director
South Florida Environmental Services
6821 Vista Parkway North
West Palm Beach, FL 33411

COMPENDIUM:

On June 25, 1999, South Florida Environmental Services performed visible emissions testing for Daughtrey Construction, Inc. Testing was conducted on the air curtain incinerator which services the facility. The purpose of this testing was to satisfy requirements for an existing construction permit and to obtain an air operating permit for the incineration chamber.

During the testing, the unit was operating at capacity (4.5 tons/hour) and utilizing vegetation as a source of combustion. The air curtain was operating under normal conditions and was in good working order.

All testing and data reduction was conducted in accordance with EPA Method 9 as found in 40CFR60 Appendix A, as amended. The results of the testing were as follows:

	Highest Three Minute Average Opacity	Highest Six Minute Average Opacity	Overall Opacity Average
Start Up	22.08 %	20.00 %	6.19 %
Normal Operation	5.00 %	5.00 %	3.17 %

During start-up periods, which shall not exceed the first thirty (30) minutes of operation, an opacity of up to 35 percent, average over a six minute period, shall be allowed, pursuant to Rule 62-296.401(6)(b), F.A.C.

Outside of start-up periods, no visible emissions (5% opacity) shall be allowed except that visible emissions up to 20% opacity will be allowed for up to three minutes in any one hour, pursuant to Rule 62-296.401(6)(a), F.A.C.

Tom Siegert of South Florida Environmental Services was the certified visible emissions evaluator during the testing. Mr. Daughtrey of Daughtrey Construction, Inc. Was responsible for proper facility operation.

Daughtrey Construction
Air Curtain Incinerator

VISIBLE EMISSIONS TEST REPORT

Data Calculation Sheet

SFES # 99-532
June 25, 1999

South Florida
Environmental Services

VISIBLE EMMISSION TEST
DATA REDUCTION SHEET

FACILITY:	Daughtrey Construction	**DATE:**	6.25.99
SOURCE:	Air Curtain Incinerator - Startup		

MINUTE/SECOND	0	15	30	45	MINUTE/SECOND	0	15	30	45
1	15	15	15	15	31	5	5	5	5
2	15	15	15	15	32	5	5	5	5
3	15	15	15	20	33	5	5	5	5
4	20	20	20	20	34	5	5	5	5
5	15	25	25	25	35	5	5	0	0
6	25	20	20	25	36	0	0	5	5
7	20	20	20	20	37	0	0	0	0
8	20	20	20	15	38	5	5	5	5
9	15	15	15	15	39	0	0	0	5
10	15	15	15	15	40	5	5	5	5
11	15	15	15	15	41	5	0	5	5
12	10	10	10	10	42	5	5	5	5
13	10	10	10	10	43	5	5	5	5
14	10	10	10	10	44	5	5	0	0
15	10	10	10	10	45	0	0	0	0
16	10	10	10	10	46	5	0	0	0
17	10	5	5	5	47	0	0	0	0
18	5	5	5	5	48	0	0	0	0
19	5	10	5	5	49	0	0	0	0
20	5	5	5	5	50	0	0	0	0
21	5	5	5	5	51	0	0	0	0
22	5	5	5	5	52	0	0	0	0
23	5	5	5	5	53	0	0	0	0
24	5	5	5	5	54	0	0	0	0
25	5	5	5	5	55	0	0	0	0
26	5	5	5	5	56	0	0	0	0
27	5	5	5	5	57	0	0	0	0
28	5	5	5	5	58	0	0	0	0
29	5	5	5	5	59	0	0	0	0
30	5	5	5	5	60	0	0	0	0

AVERAGE OPACITY:	6.19 %	**RANGE OF OPACITY READINGS:**	0 % MIN. 25 %MAX.
SIX MIN AVERAGE:	20.00 %	**NUMBER OF READINGS**	
THREE MIN AVERAGE:	22.08 %	**ABOVE:**	20 % IS 5

VISIBLE EMMISSION TEST
DATA REDUCTION SHEET

FACILITY:	Daughtrey Construction	**DATE:**	6.25.99
SOURCE:	Air Curtain Incinerator		

MINUTE/SECOND	0	15	30	45	MINUTE/SECOND	0	15	30	45
1	5	5	5	5	31	5	5	5	5
2	5	5	5	5	32	5	5	5	5
3	5	5	5	5	33	5	5	5	5
4	5	5	5	5	34	5	5	5	5
5	5	5	5	5	35	5	5	0	0
6	5	5	5	5	36	0	0	5	5
7	5	5	5	5	37	0	0	0	0
8	5	5	5	5	38	5	5	5	5
9	5	5	5	5	39	0	0	0	5
10	5	5	5	0	40	5	5	5	5
11	0	0	5	5	41	5	0	5	5
12	5	5	0	0	42	5	5	5	5
13	0	0	0	0	43	5	5	5	5
14	0	0	5	5	44	5	5	0	0
15	5	5	5	5	45	0	0	0	0
16	5	5	5	5	46	5	0	0	0
17	5	5	5	5	47	0	0	0	0
18	5	5	5	5	48	0	0	0	0
19	5	5	5	5	49	0	0	0	0
20	5	5	5	5	50	0	0	0	0
21	5	5	5	5	51	0	0	0	0
22	5	5	5	5	52	0	0	0	0
23	5	5	5	5	53	0	0	0	0
24	5	5	5	5	54	0	0	0	0
25	5	5	5	5	55	0	0	0	0
26	5	5	5	5	56	0	0	0	0
27	5	5	5	5	57	0	0	0	0
28	5	5	5	5	58	0	0	0	0
29	5	5	5	5	59	0	0	0	0
30	5	5	5	5	60	0	0	0	0

AVERAGE OPACITY:	3.17 %	**RANGE OF OPACITY READINGS:**	0 % MIN. 5 %MAX.
SIX MIN AVERAGE:	5.00 %	**NUMBER OF READINGS**	
THREE MIN AVERAGE:	5.00 %	**ABOVE:**	20 % IS 0

Daughtrey Construction
Air Curtain Incinerator

VISIBLE EMISSIONS TEST REPORT

Field Data Sheets

SFES # 99-532
June 25, 1999

South Florida Environmental Services

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Form Number		Page	Of
Continued on VEO Form Number			

Method Used (Circle One): (Method 9) 203A 203B Other: _____

Company Name: LAUGHTREY CONSTRUCTION
Facility Name:
Street Address: 6818 SW COUNTY 769
City: ARCADIA State: FL Zip: 34266

Process: INCINERATION Unit #: Operating Mode: 4.5 TPH
Control Equipment: AIR CURTAIN Operating Mode: NORMAL

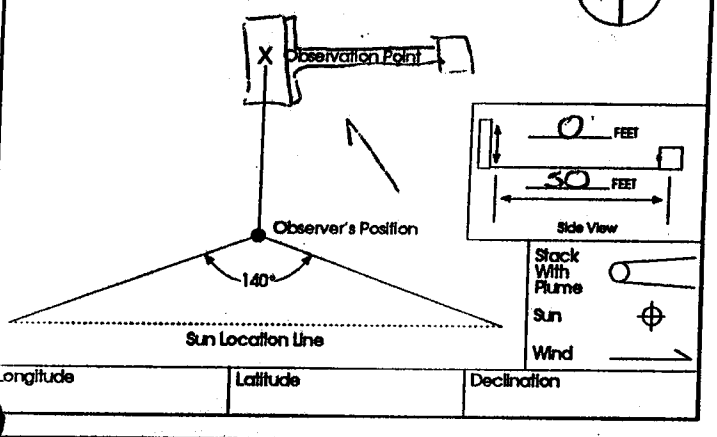
Describe Emission Point: CONCRETE-LINED PIT ADJACENT TO MANIFOLD
Height of Emiss. Pt. Start: 0 End: 0
Height of Emiss. Pt. Rel. to Observer Start: 0 End: 0
Distance to Emiss. Pt. Start: 50 End: 50
Direction to Emiss. Pt. (Degrees) Start: 0 End: 0

Vertical Angle to Obs. Pt. Start: 0 End: 0
Direction to Obs. Pt. (Degrees) Start: 0 End: 0
Distance and Direction to Observation Point from Emission Point Start: SAME End: SAME

Describe Emissions Start: SMOKE End: SMOKE
Emission Color Start: WHITE End: WHITE
Water Droplet Plume: Attached ☐ Detached ☐ None ☒

Describe Plume Background Start: TREES End: TREES
Background Color Start: GREEN End: GREEN
Sky Conditions Start: CLOUDY End: CLOUDY
Wind Speed Start: 0-5 End: 0-5
Wind Direction Start: SE End: SE
Ambient Temp. Start: 78 End: 78
Wet Bulb Temp.:
RH Percent: 75%

Source Layout Sketch



Longitude | Latitude | Declination

Additional Information: START-UP

Observation Date	Time Zone	Start Time	End Time
6/25/99	E	10:00	10:30

Min \ Sec	0	15	30	45	Comments
1	15	15	15	15	
2	15	15	15	15	
3	15	15	15	20	
4	20	20	20	20	
5	15	25	25	25	
6	25	20	20	25	
7	20	20	20	20	
8	20	20	20	15	
9	15	15	15	15	
10	15	15	15	15	
11	15	15	15	15	
12	10	10	10	10	
13	10	10	10	10	
14	10	10	10	10	
15	10	10	10	10	
16	10	10	10	10	
17	10	5	5	5	
18	5	5	5	5	
19	5	10	5	5	
20	5	5	5	5	
21	5	5	5	5	
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25	5	5	5	5	
26	5	5	5	5	
27	5	5	5	5	
28	5	5	5	5	
29	5	5	5	5	
30	5	5	5	5	

Observer's Name (Print): TOM SIEGERT
Observer's Signature: Tom Siegert Date: 6/25/99
Organization: SFES
Certified By: ETA Date: 1/13/99

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Form Number		Page 1 of 2
Continued on VEO Form Number		

Method Used (Circle One): (Method 9) 203A 203B Other:

Company Name: DAUGHTREY CONSTRUCTION.
Facility Name:
Street Address: 6818 SW COUNTY ROAD 769
City: ARCADIA State: FL Zip: 34266

Process: INCINERATION Unit #: 1 Operating Mode: 4.5 TPH
Control Equipment: AIR CURTAIN. Operating Mode: NORMAL

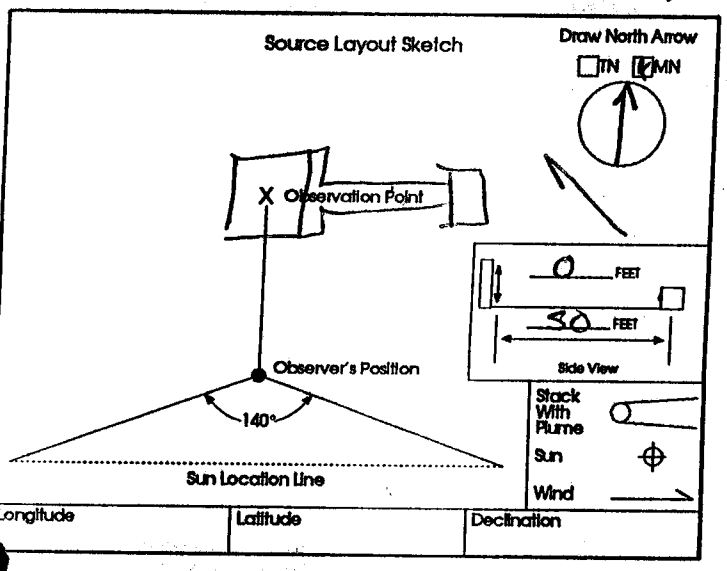
Describe Emission Point: CONCRETE-LINED PIT ADJACENT TO MANIFOLD
Height of Emiss. Pt.: Start 0 End 0
Height of Emiss. Pt. Rel. to Observer: Start 0 End 0
Distance to Emiss. Pt.: Start 50 End 50
Direction to Emiss. Pt. (Degrees): Start 0 End 0

Vertical Angle to Obs. Pt.: Start 0 End 0
Direction to Obs. Pt. (Degrees): Start 0 End 0
Distance and Direction to Observation Point from Emission Point: Start SAME End SAME

Describe Emissions: Start SMOKE End ~~SMOKE~~ NONE
Emission Color: Start WHITE End ←
Water Droplet Plume: Attached ☐ Detached ☐ None ☒

Describe Plume Background: Start TREES End TREES
Background Color: Start GREEN End GREEN
Sky Conditions: Start CLOUDY End CLOUDY
Wind Speed: Start 0-5 End 0-5
Wind Direction: Start SE End SE
Ambient Temp.: Start 78 End 78
Wet Bulb Temp.:
RH Percent: 75%

Source Layout Sketch



Longitude | Latitude | Declination

Additional Information

Observation Date	Time Zone	Start Time	End Time
		10:30	11:30

Min \ Sec	0	15	30	45	Comments
1	5	5	5	5	
2	5	5	5	5	
3	5	5	5	5	
4	5	5	5	5	
5	5	5	5	5	
6	5	5	5	5	
7	5	5	5	5	
8	5	5	5	5	
9	5	5	5	5	
10	5	5	5	0	
11	0	0	5	5	
12	5	5	0	0	
13	0	0	0	0	
14	0	0	5	5	
15	5	5	5	5	
16	5	5	5	5	
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26	5	5	5	5	
27	5	5	5	5	
28	5	5	5	5	
29	5	5	5	5	
30	5	5	5	5	

Observer's Name (Print): TOM SIEGERT
Observer's Signature: Tom Siegert Date: 6/25/99
Organization: SFES
Certified By: ETA Date: 1/13/99

EPA

VISIBLE EMISSION OBSERVATION FORM 1

Form Number	Page 2 of 2
Continued on VEO Form Number	

Method Used (Circle One): **Method 9** 203A 203B Other: _____

Company Name: DAUGHTREY CONSTRUCTION
Facility Name:
Street Address: 6818 SW COUNTY ROAD 769
City: ARCADIA | State: FL | Zip: 34266

Process: INCINERATION | Unit #: 1 | Operating Mode: 43TPH
Control Equipment: AIRCURTAIN | Operating Mode: NORMAL

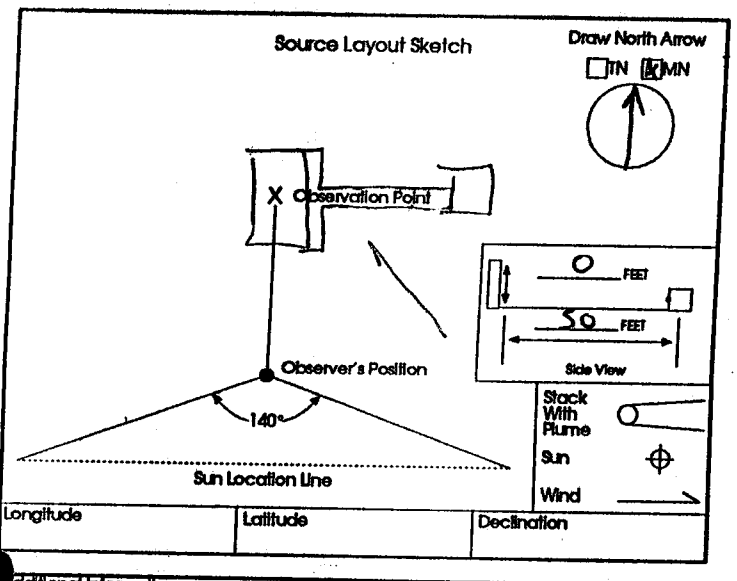
Describe Emission Point: CONCRETE-LINED PIT ADJACENT TO MANIFOLD
Height of Emiss. Pt. Start: 0 End: 0
Height of Emiss. Pt. Rel. to Observer Start: 0 End: 0
Distance to Emiss. Pt. Start: 50 End: 50
Direction to Emiss. Pt. (Degrees) Start: 0 End: 0

Vertical Angle to Obs. Pt. Start: 0 End: 0
Direction to Obs. Pt. (Degrees) Start: 0 End: 0
Distance and Direction to Observation Point from Emission Point Start: SAME End: SAME

Describe Emissions Start: SMOKE End: NONE
Emission Color Start: WHITE End: —
Water Droplet Plume: Attached ☐ Detached ☐ None ☒

Describe Plume Background Start: TREES End: TREES
Background Color Start: GREEN End: GREEN
Sky Conditions Start: CLOUDY End: CLOUDY
Wind Speed Start: 0-5 End: 0-5
Wind Direction Start: SE End: SE
Ambient Temp. Start: 78 End: 78
Wet Bulb Temp.:
RH Percent: 75%

Source Layout Sketch



Longitude | Latitude | Declination

Additional Information

Observation Date	Time Zone	Start Time	End Time
6/25/99	E	10:30	11:30

Min \ Sec	0	15	30	45	Comments
1	5	5	5	5	
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5	5	5	0	0	
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26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Observer's Name (Print): TOM SIEBERT
Observer's Signature: Tom Siebert | Date: 6/25/99
Organization: SFES
Certified By: ETA | Date: 1/13/99

VEOF1.1

ATTACHMENT 2

DATE: 6-25-99 DAY OF WEEK FRIDAY

DUTY PERSON: DWIGHT DAUGHTREY

SUN RISES: _____ A.M. SUN SETS: _____ P.M.

PERMIT # 55645

TEMP.	HUMID.	READINGS times to read	WIND BLOWING
_____	_____	9:00 AM	BLOWING FROM low TOWARDS: _____
_____	_____	10:00 AM	BLOWING FROM _____ TOWARDS: _____
_____	_____	2:00 PM	BLOWING FROM _____ TOWARDS: _____

BURN UNIT STARTED: 10 am How Started: DIESEL

BURN UNIT LAST LOADED: 11:25 am BLOWER SHUT DOWN: _____

FUELED UNIT: (GALLONS): _____ TIME FUELED: 9:00

NOT BURNING TODAY? WHY? _____

WHAT BURNED TODAY:
- ✓ TREES
- ✓ TREE STUMPS
- ✓ LOGS
- ~~LEAVES (UN-BAGGED)~~
- ✓ LARGE BRUSH
- ~~YARD TRASH~~
- ~~PALLETS~~

CLEANED OUT ASHES: _____ _____ A.M. or P.M.

TONS STOCKPILED TO CURE: 7 Tons

_____ LOADS @ _____ per load

TONS BURNED TODAY: 6 _____ TONS

CHARGING HOURS 1 hour

Daughtrey Construction
Air Curtain Incinerator

VISIBLE EMISSIONS TEST REPORT

Certification

SFES # 99-532
June 25, 1999

South Florida
Environmental Services

VISIBLE EMISSIONS EVALUATOR

This is to certify that

Tom Siegert

met the specifications of Federal Reference Method 9 and qualified as a visible emissions evaluator. Maximum deviation on white and black smoke did not exceed 7.5% opacity and no single error exceeding 15% opacity was incurred during the certification test conducted by Eastern Technical Associates of Raleigh, North Carolina. This certificate is valid for six months from date of issue.

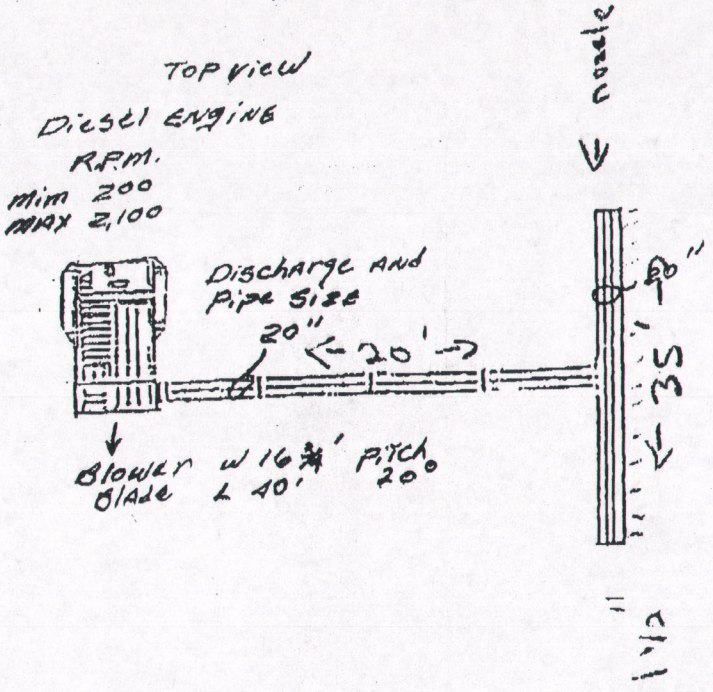
268411	*West Palm Beach, Florida*	*January 13, 1999*
Certificate Number	Location	Date of Issue

Thomas Fore
President

Michael Lunsford
Director of Training

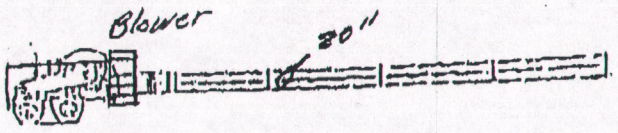

ARIAL MAP- FACILITY LOCATION
MANATEE CO
SARASOTA CO
DE SOTO CO
CHARLOTTE CO
COUNTY LINE RD
CHESTERFIELD GRADE
MIZELL RD
NW LILLY GRADE
NW PINE LEVEL RD
Pine Level
Lansing
Flowing Well
Arcadia
Jacks Airport (NRC)
ROAN ST
Arcadia Municipal Airport
McDonalds Airport (NRC)
Bright Hour Ranch Airport (NRC)
Necasee
Hull
Hancock Lake
Fort Ogden
SENATE AV
Peace River Shores
Lake Suzy Estates Airport (NRC)
SANDHILL BLVD
REYNOLDS ST
Quarry
State Hospital
Deep Lake
RICE RD
PIGGY BACK RD
PINE ISLAND RD
Pine Island Ranch Airport (NRC)
HICHOLS RD
W FARM RD
E FARMS RD
NOTTS DAIRY RD
SEABOARD COAST LINE
KINGS HIGHWAY
Joshua
Slough
Creek
Branch
Thornton
Southport
Plant
Peace River
Long Lake
17
35
31
70
72
760
761
763
769
661
661 A
760 A
648
504
1280
168

DESIGN FOR DAUGHTREY PORTABLE AIR CURTAIN INCINERATOR



Blower Type XL
Size 123
Serial # 6659-AL
Clarage Fan Co.

Side View



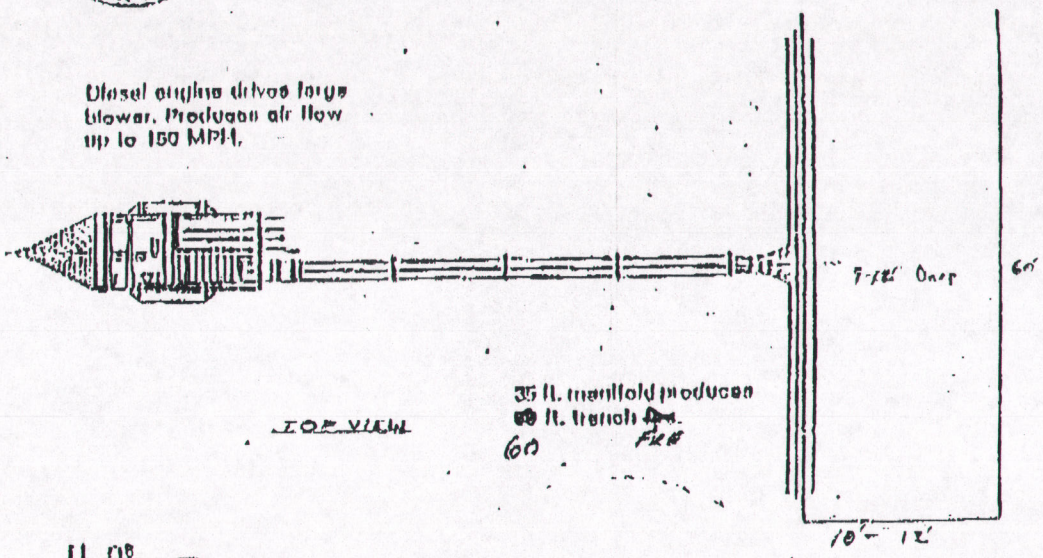
Belt Driven
Pulley Size
Power End 15½"
Blower End 9¾"

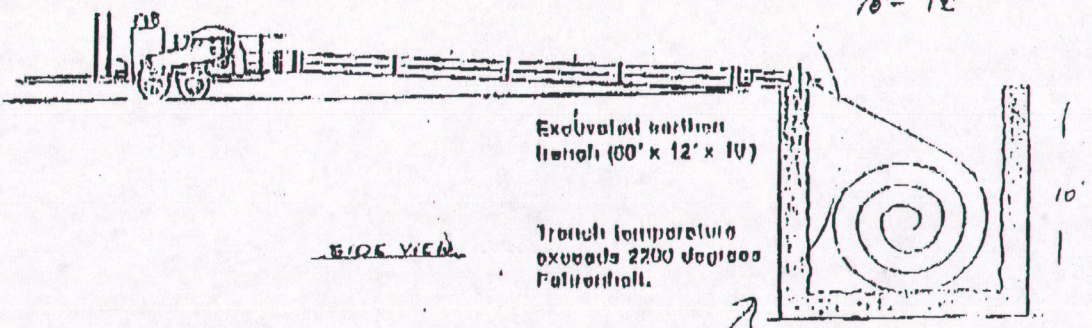
Belt Length
38¾"

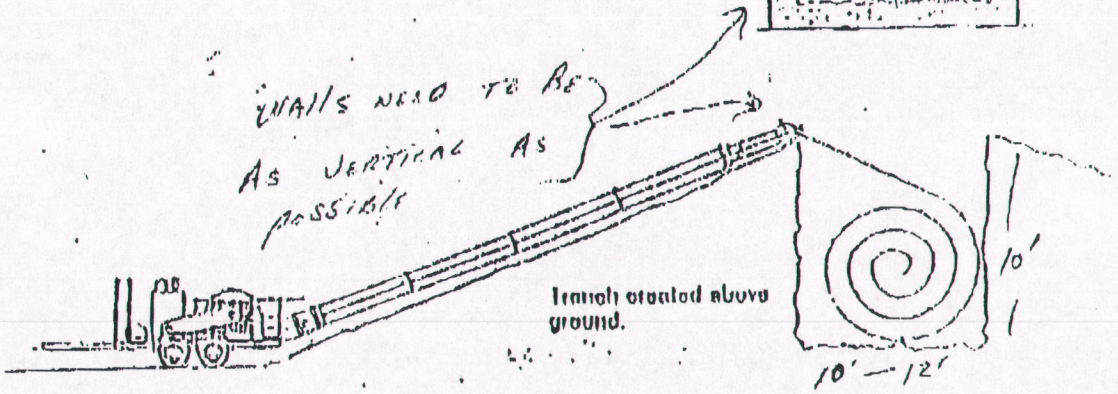
AIR BURNERS, INC. STUART, FLORIDA

Manufacturer
Distributor
Contractor

Quick, Safe, Economical, Clean Destruction of Trees and Brush







I received this from Air Burners to show how the pit can be dug.