

Department of
Environmental Protection
Division of Air Resource Management

**SUBMITTED APPLICATION REPORT
APPLICATION FOR AIR PERMIT - NON-TITLE V SOURCE**

Application Number: 4686- 1
Application Name: 2 NEW UNITS
Date Submitted: 08 November 2016

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name: GREENLAND BIOMASS, LLC	
2. Site Name: GREENLAND BIOMASS, LLC	
3. Facility Identification Number: 0310592 <input type="checkbox"/> Unknown	
4. Facility Location: Street Address or Other Locator: <div style="display: flex; justify-content: space-between; margin-top: 10px;"> 11651 Davis Creek Road East </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> City: JACKSONVILLE County: DUVAL Zip Code: 32256 </div>	
5. Relocatable Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Existing Permitted Facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Application Contact

1.	Application Contact Name: GEORGE WHITMER	Application Contact Job Title: Consultant
2.	Application Contact Mailing Address: Organization/Firm: WHITMER ENVIRONMENTAL SERVICES, INC. Street Address: 11516-3 SAN JOSE BLVD. City: JACKSONVILLE State: FL Zip Code: 32223	
3.	Application Contact Telephone Numbers: Telephone: (904) 268-8393 ext. Fax:	
Application Contact Email Address: george@whitmerenv.com		

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:
- 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 Statement

1. Owner/Authorized Representative Name: WILLIAM E POWELL	Owner/Authorized Representative Job Title: Manager
2. Owner/Authorized Representative Mailing Address: Organization/Firm: GREENLAND BIOMASS, LLC Street Address: 219 N NEWNAN STREET City: JACKSONVILLE State: FL Zip Code: 32202-3227	
3. Owner/Authorized Representative Telephone Numbers: Telephone: (904) 256-0102 ext. Fax: (904) 353-5722	
Owner/Authorized Representative Email Address: wepowell@cwpowellins.com	
4. Owner/Authorized Representative Statement: By entering my PIN below, I certify that I 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 the facility or any permitted emissions unit.	

Professional Engineer Certification

1.	Professional Engineer Name: STEPHEN ALEXANDER Registration Number: 38519	Professional Engineer Job Title: PE Consultant
2.	Professional Engineer Mailing Address: Organization/Firm: WHITMER ENVIRONMENTAL SERVICES, INC. Street Address: 11516-3 SAN JOSE BLVD City: JACKSONVILLE State: FL Zip Code: 32223	
3.	Professional Engineer Telephone Numbers: Telephone: (904) 268-8393 ext. Fax:	
	Professional Engineer Email Address: STEVEAIR57@YAHOO.COM	
4.	Professional Engineer Statement: I 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 <input checked="" type="checkbox"/> , 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 or renewal for one or more newly constructed or modified emissions units (check here <input type="checkbox"/> , 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. * Explain any exception to the certification statement.	
	Professional Engineer Exception Statement:	



Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Permit Type
	Air Curtain Incinerator	AC1E
1	air curtain destructor	AC1E

Note: The fee calculation information associated with this application may be accessed from the Main Menu of ESPAP.

Construction/Modification Information

- | | |
|----|---|
| 1. | Description of Proposed Project or Alterations:
Add 2 units to the existing air permit |
| 2. | Projected or Actual Date of Commencement of Construction: 10-OCT-16 |
| 3. | Projected Date of Completion of Construction: 30-NOV-16 |

Application Comment

Add 1 in ground and 1 above ground air curtain burners. Subject to similar source rule.

Telephone: (904) 502-1582 ext. Fax: (904) 551-2566

Facility Contact Email Address: greenlandbiomass2012@gmail.com

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 Emissions Units Subject to NESHAP Recordkeeping or Reporting?	
12.	Facility Regulatory Classifications Comment:	

Rule Applicability Analysis

Rule 62-4, FAC - Permits; Rule 62-210, FAC - Stationary Sources; Rule 62-256, FAC - Open Burning; Rule 62-296.401, FAC - Incinerator; Rule 62-297, FAC - Stationary Sources; FAC - Visible Emissions Operations; NSPS CFR 60 Subpart CCCC - Air Curtain Incinerator; JEPB Rule 2 - Air Permitting.

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Class.	3. Requested Emissions Cap		4. Basis for Emissions Cap	5. Pollutant Comment
		lb/hour	tons/year		
CO	C				
NOX	C			OTHER	
PM	B		15	OTHER	Total of both EU-02 and EU-03
PM10	C				
SO2	C				
VOC	C				

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location	<input checked="" type="checkbox"/> Applicable	<input type="checkbox"/> Waiver Requested	<input checked="" type="checkbox"/> Attachment
2. Facility Plot Plan	<input checked="" type="checkbox"/> Applicable	<input type="checkbox"/> Waiver Requested	<input checked="" type="checkbox"/> Attachment
3. Process Flow Diagram(s)	<input type="checkbox"/> Applicable	<input type="checkbox"/> Waiver Requested	<input type="checkbox"/> Attachment
4. Precautions to Prevent Emissions of Unconfined Particulate Matter	<input checked="" type="checkbox"/> Applicable	<input type="checkbox"/> Waiver Requested	<input checked="" type="checkbox"/> Attachment
5. Supplemental Information for Construction Permit Application	<input checked="" type="checkbox"/> Applicable		<input checked="" type="checkbox"/> Attachment
6. Supplemental Information Comment: Site Plan			

Facility Attachments

Supplemental Item	Electronic File Name	Attachment Description	Electronic Document	Date Uploaded
Area Map Showing Facility Location	N/A	Hard copy on file	No	
Facility Plot Plan	16WES002-11x17Layout1.pdf	Site Plan	Yes	10/28/2016
Precautions to Prevent Emissions of Unconfined Particulate Matter	PRECAUTIONS TO PREVENT UNCONFINED.doc	Precautions to Prevent Emissions of Unconfined Particulate Matter	Yes	10/31/2016
Supplemental Information for Construction Permit Application	Greenland BiomassEmm02.xls.xlsx	Emissions Calculations	Yes	10/31/2016
	16D054.docx	Relation between Greenland Biomass & Sphinx Mgt.	Yes	10/31/2016

III. EMISSIONS UNIT INFORMATION
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: air curtain destructor</p>		
<p>3. Emissions Unit Identification Number: <input type="checkbox"/> No ID ID: 1</p>		
<p>4. Emissions Unit Status Code: A - Active</p>	<p>5. Initial Startup Date:</p>	<p>6. Emissions Unit Major Group SIC Code: 16</p>
<p>7. Emissions Unit Comment: This unit is a self-contained, above ground air curtain destructor.</p>		

Emissions Unit Control Equipment

<u>Code</u>	<u>Equipment</u>	<u>Description</u>
133	INCINERATOR	Air Curtain Distructor

Emissions Unit Details

1. Package Unit:			
Manufacturer:	AIR BURNERS, INC.	Model Number:	S-220
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: million Btu/hr			
2. Maximum Incineration Rate:		pounds/hr	
		tons/day	
3. Maximum Process or Throughput Rate: 8 TONS PER HOUR			
4. Maximum Production Rate:			
5. Requested Maximum Operating Schedule:			
	hours/day		days/week
	weeks/year		1056 hours/year
6. Operating Capacity/Schedule Comment:			
Unit is rated at approx. 8 TPY			

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type): 85 hp diesel engine		
2. Source Classification Code (SCC): 20300101	3. SCC Units: 1000 Gallons Distillate Oil (Diesel) Burned	
4. Maximum Hourly Rate:	5. Maximum Annual Rate: 4.22	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		
Is this a valid segment? Yes		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type): land clearing debris		
2. Source Classification Code (SCC): 50300106	3. SCC Units: Tons Wood Burned	
4. Maximum Hourly Rate: 8	5. Maximum Annual Rate: 8000	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		
Is this a valid segment? Yes		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: CO - Carbon Monoxide		2. Pollutant Regulatory Code: NS	
3. Primary Control Device Code: 133 - INCINERATOR	4. Secondary Control Device Code:		5. Total Percent Efficiency of Control:
6. Potential Emissions: lb/hour .3 tons/year		7. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8. Emission Factor: .00668 LB/HP-HR Reference: AP-42 TABLE 3.3-1.		9. Emissions Method Code: (3B) CALCULATED USING EMISSION FACTOR FROM AP-42/FIRE SYSTEM OR OTHER PUBLISHED EMISSIONS CALCULATION SOURCE.	
10. Calculation of Emissions: Refer to attached spreadsheets			
11. Pollutant Potential Emissions Comment:			

Allowable Emissions

No Pollutant Allowable Emissions information submitted.

Potential Emissions

1. Pollutant Emitted: NOX - Nitrogen Oxides		2. Pollutant Regulatory Code: NS	
3. Primary Control Device Code: 133 - INCINERATOR	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:	
6. Potential Emissions: lb/hour 1.391 tons/year		7. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8. Emission Factor: .031 LB/HP-HR Reference: AP-42 TABLE 3.3-1.		9. Emissions Method Code: (3B) CALCULATED USING EMISSION FACTOR FROM AP-42/FIRE SYSTEM OR OTHER PUBLISHED EMISSIONS CALCULATION SOURCE.	
10. Calculation of Emissions: Refer to attached spreadsheets			
11. Pollutant Potential Emissions Comment:			

Allowable Emissions

No Pollutant Allowable Emissions information submitted.

Potential Emissions

1. Pollutant Emitted: PM - Particulate Matter - PM (Filterable)		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 133 - INCINERATOR	4. Secondary Control Device Code:		5. Total Percent Efficiency of Control:
6. Potential Emissions: lb/hour 6.336 tons/year		7. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8. Emission Factor: 2 LB/HR Reference: FDEP MEMO		9. Emissions Method Code: (5) CALCULATED USING EMISSION FACTOR OTHER THAN ONE LISTED IN METHOD 1 - 4.	
10. Calculation of Emissions: Refer to attached spreadsheets			
11. Pollutant Potential Emissions Comment:			

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code:		2. Future Effective Date of Allowable Emissions:	
3. Allowable Emissions and Units:		4. Equivalent Allowable Emissions: lb/hour tons/year	
5. Method of Compliance:			
6. Allowable Emissions Comment (Description of Operating Method):			

Potential Emissions

1. Pollutant Emitted: PM10 - Particulate Matter - PM10 (Filterable)		2. Pollutant Regulatory Code: NS	
3. Primary Control Device Code: 133 - INCINERATOR	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:	
6. Potential Emissions: lb/hour .099 tons/year		7. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8. Emission Factor: .0022 LB/HP-HR Reference: AP-42 TABLE 3.3-1.		9. Emissions Method Code: (3B) CALCULATED USING EMISSION FACTOR FROM AP-42/FIRE SYSTEM OR OTHER PUBLISHED EMISSIONS CALCULATION SOURCE.	
10. Calculation of Emissions: Refer to attached spreadsheets			
11. Pollutant Potential Emissions Comment:			

Allowable Emissions

No Pollutant Allowable Emissions information submitted.

Potential Emissions

1. Pollutant Emitted: SO2 - Sulfur Dioxide		2. Pollutant Regulatory Code: NS	
3. Primary Control Device Code: 133 - INCINERATOR	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:	
6. Potential Emissions: .17 lb/hour .09 tons/year		7. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8. Emission Factor: .00205 LB/HP-HR Reference: AP-42 TABLE 3.3-1.		9. Emissions Method Code: (3B) CALCULATED USING EMISSION FACTOR FROM AP-42/FIRE SYSTEM OR OTHER PUBLISHED EMISSIONS CALCULATION SOURCE.	
10. Calculation of Emissions: Refer to attached spreadsheets			
11. Pollutant Potential Emissions Comment:			

Allowable Emissions

No Pollutant Allowable Emissions information submitted.

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

No Continuous Monitoring information submitted.

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION**Supplemental Requirements**

1. Process Flow Diagram	<input type="checkbox"/> Applicable	<input type="checkbox"/> Waiver Requested	<input type="checkbox"/> Attachment
2. Fuel Analysis or Specification	<input type="checkbox"/> Applicable	<input type="checkbox"/> Waiver Requested	<input type="checkbox"/> Attachment
3. Detailed Description of Control Equipment	<input type="checkbox"/> Applicable	<input type="checkbox"/> Waiver Requested	<input type="checkbox"/> Attachment
4. Description of Stack Sampling Facilities	<input type="checkbox"/> Applicable	<input type="checkbox"/> Waiver Requested	<input type="checkbox"/> Attachment
5. Compliance Test Report	<input type="checkbox"/> Applicable	<input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
6. Procedures for Startup and Shutdown	<input type="checkbox"/> Applicable	<input type="checkbox"/> Waiver Requested	<input type="checkbox"/> Attachment
7. Operation and Maintenance Plan	<input type="checkbox"/> Applicable	<input type="checkbox"/> Waiver Requested	<input type="checkbox"/> Attachment
8. Supplemental Information for Construction Permit Application	<input type="checkbox"/> Applicable		<input type="checkbox"/> Attachment
9. Other Information Required by Rule or Statute	<input type="checkbox"/> Applicable		<input type="checkbox"/> Attachment
10. Supplemental Requirements Comment:			

III. EMISSIONS UNIT INFORMATION
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: Air Curtain Incinerator</p>		
<p>3. Emissions Unit Identification Number: <input checked="" type="checkbox"/> No ID ID:</p>		
<p>4. Emissions Unit Status Code: C - Construction</p>	<p>5. Initial Startup Date: 20-OCT-16</p>	<p>6. Emissions Unit Major Group SIC Code: 16</p>
<p>7. Emissions Unit Comment:</p>		

Emissions Unit Control Equipment

<u>Code</u>	<u>Equipment</u>	<u>Description</u>
133	INCINERATOR	Air Curtain Incinerator

Emissions Unit Details

1. Package Unit:	Manufacturer: KUBOTA	Model Number: V3300
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:	million Btu/hr	
2. Maximum Incineration Rate:	pounds/hr	tons/day
3. Maximum Process or Throughput Rate:	10 TPH	
4. Maximum Production Rate:		
5. Requested Maximum Operating Schedule:	hours/day	days/week
	weeks/year	1320 hours/year
6. Operating Capacity/Schedule Comment:	Schedule dependent on weather	

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: EU-03		2. Emission Point Type Code: 4 - No true emission point	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: (F) FUGITIVE EMISSIONS, NO STACK EXISTS		6. Stack Height: feet	
		7. Exit Diameter: feet	
8. Exit Temperature: °F		9. Actual Volumetric Flow Rate: acfm	
		10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: East (km): North (km):			
14. Emission Point Comment: Unit is an above ground air curtain incinerator.			

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type): 85 hp diesel engine		
2. Source Classification Code (SCC): 20300101	3. SCC Units: 1000 Gallons Distillate Oil (Diesel) Burned	
4. Maximum Hourly Rate: 3.5	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		
Is this a valid segment? Yes		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type): Land clearing debris		
2. Source Classification Code (SCC): 50300106	3. SCC Units: Tons Wood Burned	
4. Maximum Hourly Rate: 10	5. Maximum Annual Rate: 1320	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment: 10 hr/day, 3 da/wk, 44 wk/yr = 1320 hrs/yr		
Is this a valid segment? Yes		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: CO - Carbon Monoxide		2. Pollutant Regulatory Code: NS	
3. Primary Control Device Code: 133 - INCINERATOR	4. Secondary Control Device Code:		5. Total Percent Efficiency of Control:
6. Potential Emissions: lb/hour .375 tons/year		7. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8. Emission Factor: .00668 LB/HP-HR Reference: AP-42 TABLE 3.3-1		9. Emissions Method Code: (3B) CALCULATED USING EMISSION FACTOR FROM AP-42/FIRE SYSTEM OR OTHER PUBLISHED EMISSIONS CALCULATION SOURCE.	
10. Calculation of Emissions: Refer to attached spreadsheets			
11. Pollutant Potential Emissions Comment:			

Allowable Emissions

No Pollutant Allowable Emissions information submitted.

Potential Emissions

1. Pollutant Emitted: NOX - Nitrogen Oxides		2. Pollutant Regulatory Code: NS	
3. Primary Control Device Code: 133 - INCINERATOR	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:	
6. Potential Emissions: lb/hour 1.739 tons/year		7. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8. Emission Factor: .031 GRAMS/BHP-HR Reference: AP-42 TABLE 3.3-1		9. Emissions Method Code: (3B) CALCULATED USING EMISSION FACTOR FROM AP-42/FIRE SYSTEM OR OTHER PUBLISHED EMISSIONS CALCULATION SOURCE.	
10. Calculation of Emissions: Refer to attached spreadsheets			
11. Pollutant Potential Emissions Comment:			

Allowable Emissions

No Pollutant Allowable Emissions information submitted.

Potential Emissions

1. Pollutant Emitted: PM - Particulate Matter - PM (Filterable)		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 133 - INCINERATOR	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:	
6. Potential Emissions: lb/hour 8.448 tons/year		7. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8. Emission Factor: OTHER (SPECIFY IN COMMENT) Reference: FDEP MEMO		9. Emissions Method Code:	
10. Calculation of Emissions: Refer to attached spreadsheets			
11. Pollutant Potential Emissions Comment:			

Allowable Emissions

No Pollutant Allowable Emissions information submitted.

Potential Emissions

1. Pollutant Emitted: PM10 - Particulate Matter - PM10 (Filterable)		2. Pollutant Regulatory Code: NS	
3. Primary Control Device Code: 133 - INCINERATOR	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:	
6. Potential Emissions: lb/hour .123 tons/year		7. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8. Emission Factor: .0022 LB/1000 HP-HR Reference: AP-42 TABLE 3.3-1		9. Emissions Method Code: (3B) CALCULATED USING EMISSION FACTOR FROM AP-42/FIRE SYSTEM OR OTHER PUBLISHED EMISSIONS CALCULATION SOURCE.	
10. Calculation of Emissions: Refer to attached spreadsheets			
11. Pollutant Potential Emissions Comment:			

Allowable Emissions

No Pollutant Allowable Emissions information submitted.

Potential Emissions

1. Pollutant Emitted: SO2 - Sulfur Dioxide		2. Pollutant Regulatory Code: NS	
3. Primary Control Device Code: 133 - INCINERATOR	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:	
6. Potential Emissions: lb/hour .115 tons/year		7. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
8. Emission Factor: .00205 LB/1000 HP-HR Reference: AP-42 TABLE 3.3-1		9. Emissions Method Code: (3B) CALCULATED USING EMISSION FACTOR FROM AP-42/FIRE SYSTEM OR OTHER PUBLISHED EMISSIONS CALCULATION SOURCE.	
10. Calculation of Emissions: Refer to attached spreadsheets			
11. Pollutant Potential Emissions Comment:			

Allowable Emissions

No Pollutant Allowable Emissions information submitted.

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

<p>1. Visible Emissions Subtype: VE10 - VISIBLE EMISSIONS - 10% NORMAL OPACITY</p>	<p>2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other</p>
<p>3. Allowable Opacity: Normal Conditions: 10% Exceptional Conditions: 35% Maximum Period of Excess Opacity Allowed: 30 min/hour</p>	
<p>4. Method of Compliance: EPA METHOD 9</p>	
<p>5. Visible Emissions Comment: Up to 35% during startup</p>	

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

No Continuous Monitoring information submitted.

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION**Supplemental Requirements**

1. Process Flow Diagram	<input type="checkbox"/> Applicable	<input type="checkbox"/> Waiver Requested	<input type="checkbox"/> Attachment
2. Fuel Analysis or Specification	<input type="checkbox"/> Applicable	<input type="checkbox"/> Waiver Requested	<input type="checkbox"/> Attachment
3. Detailed Description of Control Equipment	<input type="checkbox"/> Applicable	<input type="checkbox"/> Waiver Requested	<input type="checkbox"/> Attachment
4. Description of Stack Sampling Facilities	<input type="checkbox"/> Applicable	<input type="checkbox"/> Waiver Requested	<input type="checkbox"/> Attachment
5. Compliance Test Report	<input type="checkbox"/> Applicable	<input type="checkbox"/> Previously Submitted, Date:	<input type="checkbox"/> Attachment
6. Procedures for Startup and Shutdown	<input type="checkbox"/> Applicable	<input type="checkbox"/> Waiver Requested	<input type="checkbox"/> Attachment
7. Operation and Maintenance Plan	<input type="checkbox"/> Applicable	<input type="checkbox"/> Waiver Requested	<input type="checkbox"/> Attachment
8. Supplemental Information for Construction Permit Application	<input type="checkbox"/> Applicable		<input type="checkbox"/> Attachment
9. Other Information Required by Rule or Statute	<input type="checkbox"/> Applicable		<input type="checkbox"/> Attachment
10. Supplemental Requirements Comment:			

PRECAUTIONS TO PREVENT UNCONFINED PARTICULATE MATTER

Unconfined particulate matter emissions from yard operations, loading/unloading and/or materials handling operations will be controlled using reasonable precautions. Reasonable precautions may include, but are not limited to:

- Reduced speed for vehicular traffic.
- Use of dust suppressants or wetting agents.
- Use of paving or other asphaltic materials.
- Removal of particulate matter from paved roads and/or other paved areas by vacuum cleaning or wetting prior to sweeping.
- Covering of trucks, trailers, front end loaders and other vehicles or containers to prevent spillage of particulate matter during transport.
- Use of mulch, hydro seeding, grassing and/or other vegetative ground cover on barren areas to prevent or reduce particulate matter from being windblown.
- Use of hoods, fans, filters and similar equipment to contain, capture and vent particulate matter.
- Enclosure or covering of conveyor systems.
- Sprinkling or otherwise wetting or conveyor systems.

Relationship Between Greenland Biomass and Sphinx Management, Inc.

Sphinx Management, Inc., and Greenland Biomass are basically run by the same organization. Sphinx Management is the owner of biomass site property and leases it to Greenland Biomass. Greenland Biomass operates the biomass site. Billy Powell is the Vice President and manager of both entities.

POTENTIAL EMISSIONS. AP-42, 1056 hrs/yr., Table 3.3-1

EU-002 - Kubota Air Curtain Destructor - 85-hp Diesel Engine. 4224 gal diesel/yr

EU	Factor	Pollutant	lbs/hp-hr	Hrs/yr	Lbs/yr	TPY
EU-02	0.031	NOx	85 / 50	1056	2782.56	1.391
EU-02	0.00668	CO	85	1056	599.5968	0.300
EU-02	0.00205	SOx	85	1056	184.008	0.092
EU-02	0.0022	PM10	85	1056	197.472	0.099
TOTAL						1.882

Tons/hr Burned: 6 (range is 3 - 6 hr/wk)

Hrs/Day 8
 Days/Wk 3
 Weeks/Yr 44

HR/DAY	DA/WK	Wk/YR	HR/YR			
8	3	44	1056			
TONS/HR BURNED	TONS/YR BURNED	EF* (lb/ton burned)	LBS/HR PM	LBS/YR PM	TPY PM	
8	6336	2	12	12672	6.336	

* Emission factor obtained from FDEP memorandum dated 3/15/86 (lbs PM/tons wood burned)

POTENTIAL EMISSIONS. AP-42, 1056 hrs/yr., Table 3.3-1

EU-003 - Kubota Air Curtain Incinerator - 85-hp Diesel Engine. 4224 gal diesel/yr

EU	Factor	Pollutant	lbs/hp-hr	Hrs/yr	Lbs/yr	TPY
EU-03	0.031	NOx	85	1320	3478.2	1.739
EU-03	0.00668	CO	85	1320	749.496	0.375
EU-03	0.00205	SOx	85	1320	230.01	0.115
EU-03	0.0022	PM10	85	1320	246.84	0.123
TOTAL						2.352

ANTICIPATED NORMAL WORKDAYS/HOURS

Tons/hr Burned: 6 (range is 3 - 6 hr/wk

Hrs/Day 10

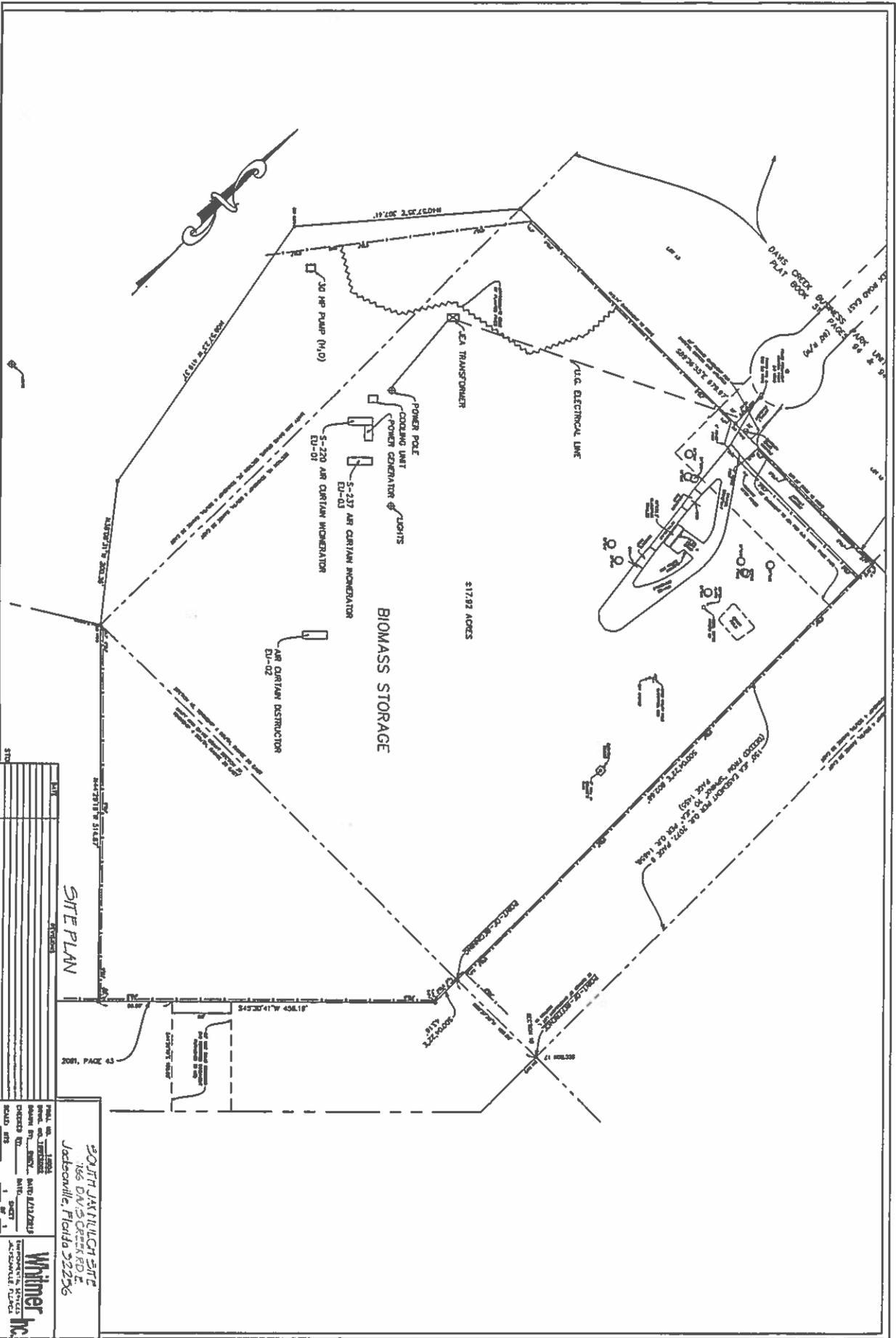
Days/Wk 3

Weeks/Yr 44

HR/DAY	DA/WK	Wk/YR	HR/YR
10	3	44	1320

TONS/HR BURNED	TONS/YR BURNED	EF* (lb/ton burned)	LBS/HR PM	LBS/YR PM	TPY PM
10	8448	2	12	16896	8.448

* Emission factor obtained from FDEP memorandum dated 3/15/86 (lbs PM/tons wood burned)



SITE PLAN

NO.	DATE	DESCRIPTION
1	11/11/2008	ISSUED FOR PERMITTING
2	11/11/2008	ISSUED FOR PERMITTING
3	11/11/2008	ISSUED FOR PERMITTING
4	11/11/2008	ISSUED FOR PERMITTING
5	11/11/2008	ISSUED FOR PERMITTING
6	11/11/2008	ISSUED FOR PERMITTING
7	11/11/2008	ISSUED FOR PERMITTING
8	11/11/2008	ISSUED FOR PERMITTING
9	11/11/2008	ISSUED FOR PERMITTING
10	11/11/2008	ISSUED FOR PERMITTING
11	11/11/2008	ISSUED FOR PERMITTING
12	11/11/2008	ISSUED FOR PERMITTING
13	11/11/2008	ISSUED FOR PERMITTING
14	11/11/2008	ISSUED FOR PERMITTING
15	11/11/2008	ISSUED FOR PERMITTING
16	11/11/2008	ISSUED FOR PERMITTING
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24	11/11/2008	ISSUED FOR PERMITTING
25	11/11/2008	ISSUED FOR PERMITTING
26	11/11/2008	ISSUED FOR PERMITTING
27	11/11/2008	ISSUED FOR PERMITTING
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96	11/11/2008	ISSUED FOR PERMITTING
97	11/11/2008	ISSUED FOR PERMITTING
98	11/11/2008	ISSUED FOR PERMITTING
99	11/11/2008	ISSUED FOR PERMITTING
100	11/11/2008	ISSUED FOR PERMITTING

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