

AIR TESTING & CONSULTING

333 FALKENBURG RD. N. B-214 • TAMPA, FLORIDA 33619 • (813)651-0878 • Fax(813)653-9082

June 22, 2012

Cindy Zhang-Torres
Department of Environmental Protection
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926

Re: Standard Carbon, LLC
Facility ID: 0830011

0830170-007-A0

Dept. Of Environmental Protection
JUL 02 2012
Southwest District

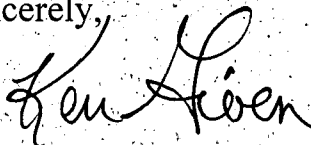
Dear Cindy:

Enclosed are two copies of an application for a non-Title V air operation permit and a check for \$775 to cover the application fee.

Included is a chart listing the emission units, the identification of the baghouses as listed in the permit and the identification as known by the plant personnel. The facility is requesting that in the new permit the emission devices be identified using the facility's identification system.

If you have any questions please call me at (813) 651-0878.

Sincerely,



Kenneth E. Given, P.E.
President

cc: Kristine Switt, Standard Carbon LLC

<u>Our BLWR # (Permit #)</u>	<u>ID E.U.</u>	<u>Device Permit ID</u>	<u>Our ID</u>	<u>Function</u>
BL-T	001	PJ-T	DC-1	Super sack dumping - fugitive emissions
BL-1	002	PJ-1	DC-2	Transfer from SS dumping to silos #9 or #11 or to tanker
BLWR-5	009	PJ-2	BV-5	RM outlet hopper to Carbon Storage Silos and for Blending
	004	K2 BH	K2 BH	Kiln #2 Exhaust
	005	K1 BH	K1 BH	Kiln #1 Exhaust
RM fan (RM blower)	006	Mikro Pulsaire Type 65810	RM BH	RM and RM outlet hopper
BLWR-4 (BL-2)	007	PJ-3	DC-4	Fines Hopper (s) / Surge Hopper
BLWR-6	010	PJ-6	DC-6	14 tank
(BL-5)	011	Flex Kleen	16 Tank BH	16 Tank Fugitive emissions tanker / Rail Cars
BLWR-6 (BL-5)	012	Flex Kleen 84BVBS-25	Bagging BH	Transfer to bagging Tower/Hopper
	013	Mahle -small-		Bagging
	014	Flex Kleen	DC-6	14 Tank Fugitive emissions tanker / Rail Cars
BLWR-3 (BL-1)	017	PJ-4	DC-5	Shaker sand dust / Carbon recapture in RM stream to Silo #4
	015	K1	K1-Stack	Combustion Exhaust - 005
	016	K2	K2-Stack	Combustion Exhaust - 004

AIR OPERATION PERMIT APPLICATION

PREPARED FOR:

**STANDARD CARBON LLC
DUNNELLON, FLORIDA**

FACILITY ID: 0830170

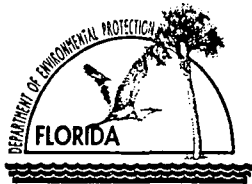
PREPARED BY:

ATC



AIR TESTING & CONSULTING, INC.

***333 FALKENBURG ROAD, SUITE B-214
TAMPA, FLORIDA 33619***



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)

Dept. Of Environmental Protection
JUL 02 2012
Southwest District

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name: STANDARD CARBON LLC	
2. Site Name: (dba) STANDARD PURIFICATION	
3. Facility Identification Number: 0830170 [] Unknown	
4. Facility Location: Street Address or Other Locator: 551 North U.S. Highway 41, 1 mile south of Romeo City: DUNNELLON County: MARION Zip Code: 34432	
5. Relocatable Facility? [] Yes [X] No	6. Existing Permitted Facility? [X] Yes [] No

Application Contact

1. Name and Title of Application Contact: JAMES SHARPE / CEO	
2. Application Contact Mailing Address: Organization/Firm: STANDARD CARBON LLC Street Address: 551 North U.S. Highway 41 City: DUNNELLON County: MARION Zip Code: 34432	
3. Application Contact Telephone Numbers: Telephone: (352) 465 - 5959 Fax: (352) 465 - 0679	

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	07/02/2012
2. Permit Number:	0830170-007-AD

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: 0830170-004-AC, 0830170-005-AC

Operation permit number to be revised: 0830170-002-AO

- 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: _____

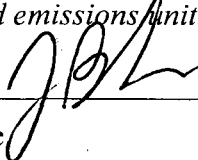
Reason for revision: _____

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: James Sharpe / CEO
2. Owner/Authorized Representative Mailing Address: Organization/Firm: Standard Carbon LLC Street Address: 551 North U.S. Highway 41 City: Dunnellon State: Florida Zip Code: 34432
3. Owner/Authorized Representative Telephone Numbers: Telephone: (352) 465 - 5959 Fax: (352) 465 - 0679
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>6/27/12</u>

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: Kenneth E. Given Registration Number: 23023 Authorization Number: 27706
2. Professional Engineer Mailing Address: Organization/Firm: Air Testing & Consulting, Inc. Street Address: 333 N. Falkenburg Rd. Unit B-214 City: Tampa State: Florida Zip Code: 33619
3. Professional Engineer Telephone Numbers: Telephone: (813) 651 - 0878 Fax: (813) 653 - 9082

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 [X], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

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

Bennett E. Lwen

Signature
(seal)

6-22-2012
Date

Attach any exception to certification statement.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
001	Truck unloading with baghouse PJ-T (DC-1)	AO2B	\$250
002	Transfer from truck unloading to storage silos 9 & 11 with baghouse PJ-1 (DC-2) or to silos 8, 10, 12 with Baghouse PJ-2 (BV-5)	AO2B	-
004	Kiln No. 2 w/combustion chamber No. 2 with baghouse SDC Model 48-SL-108	AO2B	\$525
005	Kilns No. 1 w/combustion chamber No. 1 with baghouse SDC Model 48-SL-108	AO2B	-
007	Add a shaker screen to remove sand from unmilled carbon product;	AO2B	-
009	Replace PJ-4(DC-5) with PJ-2 (BV-5)	AO2B	-
014	Add refurbished baghouse to capture emissions from silo 16	AO2B	-
017	Refurbish Silo #4, add PJ-4 (DC-5)	AO2B	-
	Combustion chambers are newly permitted and have 3.5 years left until renewal. Therefore permit fee would be $\$750 \times 3.5/5 = \525 . The other units are minor modifications for several similar sources - \$250.		

Application Processing Fee

Check one: Attached - Amount: \$775 Not Applicable

Construction/Modification Information

1. Description of Proposed Project or Alterations:
2. Projected or Actual Date of Commencement of Construction:
3. Projected Date of Completion of Construction:

Application Comment

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Facility Regulatory Classifications

Check all that apply:

1. <input type="checkbox"/> Small Business Stationary Source?	<input 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 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

Federal: None
State: Facility is subject to F.A.C.: 62-4 - permitting requirements, 62-210 - Administrative permit corrections, AOR, Circumvention, Excess emissions, Renewal, 62-296 - no objectionable odors, visible emission limitations, emission rates, unconfined emissions and 62-297 - testing requirements and 62.297.620(4) - Alternative Testing Procedures.
Local: None

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>Truck dump.</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: A</p>	<p>5. Initial Startup Date:</p>	<p>6. Emissions Unit Major Group SIC Code:</p> <p>28</p>
<p>7. Emissions Unit Comment: (Limit to 500 Characters)</p> <p>Original project - Fly ash to be unloaded from a truck into a receiving hopper in a new building that is be connected to baghouse PJ-T (DC-1) for fugitive emissions control.</p> <p>The truck dump system was modified so powered activated carbon brought to the site in super sacks can be unloaded and transferred to storage silos.</p>		

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): PJ-T (DC-1) – design air flow 6,000 cfm, 1500 ft ² area – 100 bags x 120” long, 4:1 air to cloth ratio
2. Control Device or Method Code(s): 018

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:	lb/hr tons/day
3. Maximum Process or Throughput Rate:	4 TPH
4. Maximum Production Rate:	
5. Requested Maximum Operating Schedule:	
hours/day	days/week
weeks/year	8,760 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: 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:			
5. Discharge Type Code: V	6. Stack Height: 10 feet	7. Exit Diameter: 1.5 feet	
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate: 6,000 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 (limit to 200 characters):			

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Dumping of activated carbon from super sacks		
2. Source Classification Code (SCC):		3. SCC Units: Tons Handled
4. Maximum Hourly Rate: 4	5. Maximum Annual Rate: 35,040	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 _____ of _____

1. Segment Description (Process/Fuel Type) (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):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 018	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:	
6. Potential Emissions: 0.41 lb/hour 1.8 tons/year		7. Synthetically Limited? []	
8. Emission Factor: 0.008 grs/cf Reference: Supplier of filter bags		9. Emissions Method Code: 0	
10. Calculation of Emissions (limit to 600 characters): E = 6,000 cfm x 60 min/hr x 0.008 grs/cf x 1 lb/7,000 grs = 0.41 lbs/hr 0.41 lbs/hr x 8,760 hrs/yr x ton/2,000 lbs = 1.8 tons/yr			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions _____ of _____

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

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: [X] Rule [] Other
3. Requested Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: DEP Method 9	
2. Visible Emissions Comment (limit to 200 characters): Per 62-297-620(4) – VE of 5% in place of particulate matter test (EPA Method 5)	

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 <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" 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 type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" 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 type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: <u>Tested 11/29/11</u> <input type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
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:

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>Transfer of powdered carbon from truck unloading to storage silos</p>		
<p>3. Emissions Unit Identification Number: <input type="checkbox"/> No ID</p> <p>ID: 002 <input type="checkbox"/> ID Unknown</p>		
<p>4. Emissions Unit Status</p> <p>Code: A</p>	<p>5. Initial Startup Date:</p>	<p>6. Emissions Unit Major Group SIC Code:</p> <p>28</p>
<p>7. Emissions Unit Comment: (Limit to 500 Characters)</p> <p>Powdered carbon is being transferred from truck receiving to storage silo numbers 9 and 11 with baghouse PJ-1 (DC-2) or to silos 8, 10 and 12 with baghouse PJ-2 (BV-5)</p>		

Emissions Unit Control Equipment

<p>1. Control Equipment/Method Description (limit to 200 characters per device or method):</p> <p>PJ-1 (DC-2) – Kinetic-Air model No. 72-SL-120, pulse jet vacuum receiver dust collector 4,000 cfm</p> <p>PJ-2 (BV-5) – Kinetic-Air model No. 36-BV-84, pulse jet vacuum receiver dust collector 1,000 cfm</p>
<p>2. Control Device or Method Code(s): 018</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:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	4 TPH	
4. Maximum Production Rate:		
5. Requested Maximum Operating Schedule:		
	hours/day	days/week
	weeks/year	8,760 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: 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:			
5. Discharge Type Code: H	6. Stack Height: 8 feet	7. Exit Diameter: feet	
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate: 4,000 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 (limit to 200 characters):			

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Transfer of powdered carbon		
2. Source Classification Code (SCC):		3. SCC Units: Tons Handled
4. Maximum Hourly Rate: 4	5. Maximum Annual Rate: 35,040	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 ____ of ____

1. Segment Description (Process/Fuel Type) (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):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 018	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:	
6. Potential Emissions: 0.274 lb/hour 1.2 tons/year		7. Synthetically Limited? []	
8. Emission Factor: 0.008 grs/cf Reference: Baghouse supplier		9. Emissions Method Code: 0	
10. Calculation of Emissions (limit to 600 characters): PJ-1(DC-2): $E = 4,000 \text{ cfm} \times 60 \text{ min/hr} \times 0.008 \text{ grs/cf} \times 1 \text{ lb/7,000 grs} = 0.274 \text{ lbs/hr}$ $0.274 \text{ lbs/hr} \times 8,760 \text{ hrs/yr} \times \text{ton/2,000 lbs} = 1.2 \text{ tons/yr}$ PJ-2 (BV-5): $E = 1,000 \text{ cfm} \times 60 \text{ min/hr} \times 0.008 \text{ grs/cf} \times 1 \text{ lb/7,000 grs} = 0.0686 \text{ lbs/hr}$ $0.0686 \text{ lbs/hr} \times 8,760 \text{ hrs/yr} \times \text{ton/2,000 lbs} = 0.3 \text{ tons/yr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions _____ of _____

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

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: [X] Rule [] Other
3. Requested Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: DEP Method 9	
3. Visible Emissions Comment (limit to 200 characters): Per 62-297-620(4) – VE of 5% in place of particulate matter test (EPA Method 5)	

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

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7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
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:

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>Kiln No. 1 w/ Combustion Chamber No. 1</p>		
<p>3. Emissions Unit Identification Number:</p> <p>ID: 005</p>		<p><input type="checkbox"/> No ID</p> <p><input type="checkbox"/> ID Unknown</p>
<p>4. Emissions Unit Status</p> <p>Code: A</p>	<p>5. Initial Startup Date:</p>	<p>6. Emissions Unit Major Group SIC Code:</p> <p>28</p>
<p>7. Emissions Unit Comment: (Limit to 500 Characters)</p> <p>Kiln is being fired with natural gas. Kiln No. 1 burner was replaced with a larger one rated at 18 MMBtu/hr. The fly ash has a much higher moisture content (75%) than expected (25%) and requires more heat for processing at desired rates.</p>		

Emissions Unit Control Equipment

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

Cyclone separator followed by a SDC Model 48-SL-108 baghouse

2. Control Device or Method Code(s): 018, 075

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:

18

mmBtu/hr

2. Maximum Incineration Rate:

lb/hr

tons/day

3. Maximum Process or Throughput Rate: 4 TPH

4. Maximum Production Rate:

5. Requested Maximum Operating Schedule:

hours/day

days/week

weeks/year

8,760

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: 2	
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:			
5. Discharge Type Code: V	6. Stack Height: 35 feet	7. Exit Diameter: 1.2 feet	
8. Exit Temperature: 400 °F	9. Actual Volumetric Flow Rate:	10. Water Vapor: 10 %	
11. Maximum Dry Standard Flow Rate: 2,500 dscfm		12. Nonstack Emission Point Height: 35 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 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Processing of fly ash to activated carbon		
2. Source Classification Code (SCC):		3. SCC Units: Tons Processed
4. Maximum Hourly Rate: 4	5. Maximum Annual Rate: 35,040	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): Burning of natural gas		
2. Source Classification Code (SCC): 3-06-001-05		3. SCC Units: MMCF
4. Maximum Hourly Rate: 0.0171	5. Maximum Annual Rate: 150.2	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 1050
10. Segment Comment (limit to 200 characters):		

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

1. Pollutant Emitted: PM		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 018	4. Secondary Control Device Code: 075	3. Primary Control Device Code: 018	
6. Potential Emissions: 8.48 lb/hour 37.14 tons/year		7. Synthetically Limited? [X]	
8. Emission Factor: 8.48 lbs/hr Reference: 62-296.320(a)2 F.A.C.		9. Emissions Method Code: 0	
10. Calculation of Emissions (limit to 600 characters): $E = 3.59 \times P^{0.62}$ $E = 3.59 \times 4^{0.62} = 8.48 \text{ lbs/hr}$ $8.48 \text{ lbs/hr} \times 8,760 \text{ hrs/yr} \times \text{ton}/2,000 \text{ lbs} = 37.14 \text{ tons/yr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions 1 of 1

1. Pollutant Emitted: PM		2. Pollutant Regulatory Code: EL	
3. Requested Allowable Emissions and Units: 2.5 lbs/hr	4. Equivalent Allowable Emissions: 2.5 lb/hour 10.95 tons/year		
5. Method of Compliance (limit to 60 characters): EPA Method 5			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): Expected emissions are 3.27 tons/yr. Reduced permitted emissions to reduce application cost.			

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: [X] Rule [] Other
3. Requested Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: DEP Method 9	
4. Visible Emissions Comment (limit to 200 characters): Per 62-297-620(4) – VE of 5% in place of particulate matter test (EPA Method 5)	

**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 <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" 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 type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously submitted, Date: <u>Tested 7/12/11</u> <input type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
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:

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 Addressed in This Section: (Check one) <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). <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. <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.		
2. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Kiln No. 2 w/ Combustion Chamber No. 2		
3. Emissions Unit Identification Number: ID: 004		<input type="checkbox"/> No ID <input type="checkbox"/> ID Unknown
4. Emissions Unit Status Code: A	5. Initial Startup Date:	6. Emissions Unit Major Group SIC Code: 28
7. Emissions Unit Comment: (Limit to 500 Characters) Kiln is fired with natural gas. Kiln No. 2 burner was replaced with a larger one rated at 11 MMBtu/hr The fly ash has a much higher moisture content (75%) than expected (25%) and requires more heat for processing at desired rates.		

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): Cyclone separator followed by a SDC Model 48-SL-108 baghouse
2. Control Device or Method Code(s): 018, 075

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:	11	mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	4	
4. Maximum Production Rate:		
5. Requested Maximum Operating Schedule:		
	hours/day	days/week
	weeks/year	8,760 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: 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:			
5. Discharge Type Code: V	6. Stack Height: 35 feet	7. Exit Diameter: 1.2 feet	
8. Exit Temperature: 400 °F	9. Actual Volumetric Flow Rate: 4,600 acfm	10. Water Vapor: 10 %	
11. Maximum Dry Standard Flow Rate: 2,500 dscfm		12. Nonstack Emission Point Height: 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 2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Processing of fly ash to activated carbon		
2. Source Classification Code (SCC): 3-05-009-01		3. SCC Units: Tons Processed
4. Maximum Hourly Rate: 4	5. Maximum Annual Rate: 35,040	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): 3-05-009-01- Dryer – Clay & Fly Ash Sintering		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Burning of natural gas		
2. Source Classification Code (SCC): 3-06-001-05		3. SCC Units: MMCF
4. Maximum Hourly Rate: 0.0105	5. Maximum Annual Rate: 91.77	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 1050
10. Segment Comment (limit to 200 characters): The emissions calculations for the burner are in attachment		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 018	4. Secondary Control Device Code: 075	5. Total Percent Efficiency of Control:	
6. Potential Emissions: 8.48 lb/hour 37.14 tons/year		7. Synthetically Limited? [X]	
8. Emission Factor: 8.48 lbs/hr Reference: 62-296.320(a)2 F.A.C.		9. Emissions Method Code: 0	
10. Calculation of Emissions (limit to 600 characters): $E = 3.59 \times P^{0.62}$ $E = 3.59 \times 4^{0.62} = 8.48 \text{ lbs/hr}$ $8.48 \text{ lbs/hr} \times 8,760 \text{ hrs/yr} \times \text{ton}/2,000 \text{ lbs} = 37.14 \text{ tons/yr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 2.5 lbs/hr	4. Equivalent Allowable Emissions: 2.5 lb/hour 10.95 tons/year
5. Method of Compliance (limit to 60 characters): EPA Method 5	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): Expected emissions are 3.27 tons/yr. Reduced permitted emissions to reduce application cost.	

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: [X] Rule [] Other
3. Requested Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: DEP Method 9	
5. Visible Emissions Comment (limit to 200 characters): Per 62-297-620(4) – VE of 5% in place of particulate matter test (EPA Method 5)	

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 <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" 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 type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously submitted, Date: <u>Tested 7/12/11</u> <input type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
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:

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): A shaker screen was added between the kiln surge hopper and the RM Receiving Hopper to remove sand from unmilled carbon prior to the Raymond Mill</p>		
<p>3. Emissions Unit Identification Number: ID: 007</p>		<p><input type="checkbox"/> No ID <input type="checkbox"/> ID Unknown</p>
<p>4. Emissions Unit Status Code: A</p>	<p>5. Initial Startup Date:</p>	<p>6. Emissions Unit Major Group SIC Code: 28</p>
<p>7. Emissions Unit Comment: (Limit to 500 Characters) Shaker screen – A Rotex model A8G24L-1M was added to the material flow from the kilns going into the surge hopper from the cooling screw. The shaker screen unit entirely encloses the material. Sand (75 lb/cf) entrained in the unmilled product is separated by the shaker and passes through a rotary air lock into an enclosed bin, dropping by gravity. This bin will be changed out periodically with an empty bin. The remainder of the material stream (product) drops into the surge hopper from the new shaker screen. Air displaced in the closed bins is removed through the system. As an alternative sand from the shaker may be sent to Silo #4.</p>		

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): Mikro-Pulsaire, Model 64S820 Air flow -3,600 acfm
2. Control Device or Method Code(s): 018

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:	lb/hr tons/day
3. Maximum Process or Throughput Rate:	4 TPH
4. Maximum Production Rate:	
5. Requested Maximum Operating Schedule:	
hours/day	days/week
weeks/year	8,760 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: 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:			
5. Discharge Type Code: H	6. Stack Height: feet	7. Exit Diameter: feet	
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate: 3,600 acfm	10. Water Vapor: 2 %	
11. Maximum Dry Standard Flow Rate: 3,400 dscfm		12. Nonstack Emission Point Height: 50 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 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Milling of activated carbon		
2. Source Classification Code (SCC): 3-05-006-13		3. SCC Units: Tons Handled
4. Maximum Hourly Rate: 4	5. Maximum Annual Rate: 35,040	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): SCC code for cement raw material Grinding and Drying		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type) (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):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 018	4. Secondary Control Device Code: 075	5. Total Percent Efficiency of Control:	
6. Potential Emissions: 8.48 lb/hour 37.14 tons/year		7. Synthetically Limited? [X]	
8. Emission Factor: 8.48 lb/hour Reference: 62-296.320(a)2 F.A.C.		9. Emissions Method Code: 0	
10. Calculation of Emissions (limit to 600 characters): $E = 3.59 \times P^{0.62}$ $E = 3.59 \times 4^{0.62} = 8.48 \text{ lbs/hr} \times \text{hr} / 4 \text{ tons} = 2.12 \text{ lbs/ton}$ $E = 8.48 \text{ lbs/hr} \times 8,760 \text{ hrs/yr} \times \text{ton} / 2,000 \text{ lbs} = 37.14 \text{ tons/yr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters): No emissions expected from the shaker screen.			

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: ESCTV	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 5 lbs/hr	4. Equivalent Allowable Emissions: 5 lb/hour 21.9 tons/year
5. Method of Compliance (limit to 60 characters): EPA Method 5	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: [X] Rule [] Other
3. Requested Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: DEP Method 9	
6. Visible Emissions Comment (limit to 200 characters): Per 62-297-620(4) – VE of 5% in place of particulate matter test (EPA Method 5)	

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 <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" 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 type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" 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 type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously submitted, Date: <u>Tested 7/12/11</u> <input type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
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:

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): Carbon Silo loading and storage with Baghouse</p>		
<p>3. Emissions Unit Identification Number: ID: 009</p>		<p><input checked="" type="checkbox"/> No ID <input type="checkbox"/> ID Unknown</p>
<p>4. Emissions Unit Status Code: A</p>	<p>5. Initial Startup Date:</p>	<p>6. Emissions Unit Major Group SIC Code: 28</p>
<p>7. Emissions Unit Comment: (Limit to 500 Characters) Carbon is pneumatically transferred from the Raymond Mill outlet hopper at 600 cfm. The carbon feeds to silos 8, 10 or 12. The facility replaced PJ-4 (DC-5) with PJ-2 (BV-5).</p>		

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): PJ-2 (BV-5) – Kinetic-Air model No. 36-BV-84, pulse jet vacuum receiver dust collector 600 cfm
2. Control Device or Method Code(s): 018

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:	lb/hr tons/day
3. Maximum Process or Throughput Rate:	8 TPH
4. Maximum Production Rate:	
5. Requested Maximum Operating Schedule:	
hours/day	days/week
weeks/year	8,760 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: 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:			
5. Discharge Type Code: H	6. Stack Height: 8 feet	7. Exit Diameter: feet	
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate: 600 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 (limit to 200 characters): The baghouse has a vent in its side, there is no stack.			

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Transfer of carbon to storage		
2. Source Classification Code (SCC):		3. SCC Units: Tons Handled
4. Maximum Hourly Rate: 8	5. Maximum Annual Rate: 70,080	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 _____ of _____

1. Segment Description (Process/Fuel Type) (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):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 018	4. Secondary Control Device Code: 075	5. Total Percent Efficiency of Control:	
6. Potential Emissions: 0.041 lb/hour 0.18 tons/year		7. Synthetically Limited? []	
8. Emission Factor: 0.008 grs/cf Reference: Manufacturer		9. Emissions Method Code: 0	
10. Calculation of Emissions (limit to 600 characters): PJ-2 (BV-5): $E = 600 \text{ cfm} \times 60 \text{ min/hr} \times 0.008 \text{ grs/cf} \times 1 \text{ lb}/7,000 \text{ grs} = 0.041 \text{ lbs/hr}$ $0.041 \text{ lbs/hr} \times 8,760 \text{ hrs/yr} \times \text{ton}/2,000 \text{ lbs} = 0.18 \text{ tons/yr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions _____ of _____

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

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: [X] Rule [] Other
3. Requested Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: DEP Method 9	
7. Visible Emissions Comment (limit to 200 characters): Per 62-297-620(4) – VE of 5% in place of particulate matter test (EPA Method 5)	

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 <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" 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 type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously submitted, Date: <u>Tested 7/12/11</u> <input type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
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:

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): Truck/Railcar bulk loading system using Storage Silos #14 & #16 each with a fabric filter to control emissions. Trucks are loaded from the silos by gravity through a Rotor Lock valve.</p>		
<p>3. Emissions Unit Identification Number: ID: 014</p>		<p><input type="checkbox"/> No ID <input type="checkbox"/> ID Unknown</p>
<p>4. Emissions Unit Status Code: A</p>	<p>5. Initial Startup Date:</p>	<p>6. Emissions Unit Major Group SIC Code: 28</p>
<p>7. Emissions Unit Comment: (Limit to 500 Characters) Carbon is received into Carbon Silos #14 & #16 from Carbon Silos 8, 10, or 12. Carbon Silos # 14 and #16 are positioned above the railroad tracks where trucks/railcars are loaded. Each silo exhausts through its own refurbished baghouse. Also, when the trucks/railcars are loaded the exhaust is captured by the refurbished baghouses.</p>		

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method): Flex-Kleen Model 84BVBS 1611G – air flow 600 cfm
2. Control Device or Method Code(s): 018

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:	lb/hr tons/day
3. Maximum Process or Throughput Rate:	12 TPH
4. Maximum Production Rate:	
5. Requested Maximum Operating Schedule:	
hours/day	days/week
weeks/year	8,760 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: 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:			
5. Discharge Type Code: V	6. Stack Height: feet	7. Exit Diameter: feet	
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate: 600 acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: 10 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 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Transfer of activated carbon to Silos 16 which is used to fill trucks or railcars by gravity feed through a Rotor Lock valve.		
2. Source Classification Code (SCC):		3. SCC Units: Tons Handled
4. Maximum Hourly Rate: 12	5. Maximum Annual Rate: 105,120	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 _____ of _____

1. Segment Description (Process/Fuel Type) (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):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 018	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:	
6. Potential Emissions: 0.1543 lbs/hr 0.675 tons/year		7. Synthetically Limited? []	
8. Emission Factor: 16.76 lbs/hr Reference: 62-296.320(a)2 F.A.C.		9. Emissions Method Code: 0	
10. Calculation of Emissions (limit to 600 characters): $E = 600 \text{ cfm} \times 60 \text{ min/hr} \times 0.03 \text{ grs/cf} \times 1 \text{ lb}/7,000 \text{ grs} = 0.1543 \text{ lbs/hr}$ $0.1543 \text{ lbs/hr} \times 8,760 \text{ hrs/yr} \times \text{ton}/2,000 \text{ lbs} = 0.676 \text{ tons/yr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters): Carbon is gravity fed into trucks or railcars. Venting is through silo baghouse			

Allowable Emissions Allowable Emissions 1 of 1

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

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: [X] Rule [] Other
3. Requested Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: DEP Method 9	
8. Visible Emissions Comment (limit to 200 characters): Per 62-297-620(4) – VE of 5% in place of particulate matter test (EPA Method 5)	

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 <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" 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 type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously submitted, Date: <u>Tested 11/29/11</u> <input type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
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:

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): Carbon Silo 4 loading and storage with Baghouse PJ-4</p>		
<p>3. Emissions Unit Identification Number: ID:</p>		<p><input checked="" type="checkbox"/> No ID <input type="checkbox"/> ID Unknown</p>
<p>4. Emissions Unit Status Code: C</p>	<p>5. Initial Startup Date:</p>	<p>6. Emissions Unit Major Group SIC Code: 28</p>
<p>7. Emissions Unit Comment: (Limit to 500 Characters)</p>		

Emissions Unit Control Equipment

<p>1. Control Equipment/Method Description (limit to 200 characters per device or method):</p> <p>PJ-4 (DC-5) – Kinetic-Air model No. 12-RS-84, pulse jet vacuum receiver dust collector 600 cfm (each), bag area = 150 ft², air to cloth ratio: 4 to 1</p>
<p>2. Control Device or Method Code(s): 018</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:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	8 TPH	
4. Maximum Production Rate:		
5. Requested Maximum Operating Schedule:		
	hours/day	days/week
	weeks/year	8,760 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: 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:			
5. Discharge Type Code: P	6. Stack Height: feet	7. Exit Diameter: feet	
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate: 600 acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: 10 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 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Receiving of carbon		
2. Source Classification Code (SCC):		3. SCC Units: Tons Handled
4. Maximum Hourly Rate: 8	5. Maximum Annual Rate: 70,080	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): Alternative use is to receive sand from the shaker when run.		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (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):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM		2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code: 018	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:	
6. Potential Emissions: 0.41 lb/hour 1.8 tons/year		7. Synthetically Limited? []	
8. Emission Factor: 0.008 grs/cf Reference: Supplier of filter bags		9. Emissions Method Code: 0	
10. Calculation of Emissions (limit to 600 characters): PJ-4: $E = 600 \text{ cfm} \times 60 \text{ min/hr} \times 0.008 \text{ grs/cf} \times 1 \text{ lb}/7,000 \text{ grs} = 0.041 \text{ lbs/hr}$ $0.041 \text{ lbs/hr} \times 8,760 \text{ hrs/yr} \times \text{ton}/2,000 \text{ lbs} = 0.18 \text{ tons/yr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

Allowable Emissions Allowable Emissions _____ of _____

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

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: [X] Rule [] Other
3. Requested Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: DEP Method 9	
9. Visible Emissions Comment (limit to 200 characters): Per 62-297-620(4) – VE of 5% in place of particulate matter test (EPA Method 5)	

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 <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" 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 type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input checked="" 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 type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: <u> Tested April 27, 21012 </u> <input type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
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:

Zell, David

From: Kristine Switt [kswitt@standardpurification.com]
Sent: Thursday, July 05, 2012 3:02 PM
To: Zell, David
Cc: 'Jim Sharpe'; ken@airtest.fdn.com
Subject: RE: Silo No. 4 Clarification - RE: Add a new silo to draft construction permit

007-A0

David,

No. 4 was in the pre-draft in that paragraph and I didn't catch it. No. 4 will utilize DC-5 when receiving sand from the shaker screen or RM classifier, or during blending operations, as permitted. It could be used as a regular storage silo using BV 5 or DC-2, as described, but is intended to be special use.

Let me know if there is anything else.

Kristine Switt
352.465.5959

From: Zell, David [mailto:David.Zell@dep.state.fl.us]
Sent: Thursday, July 05, 2012 9:52 AM
To: 'Kristine Switt'
Cc: 'Jim Sharpe'; ken@airtest.fdn.com
Subject: Silo No. 4 Clarification - RE: Add a new silo to draft construction permit

Kristine,

As I read your request below and was revising the Draft permit, I realized that I am not sure that I understand how Silo No. 4 is loaded and which baghouse will be used to control emissions from it.

Construction Permit 0830170-005-AC was issued for the refurbishment and operation of Carbon Storage Silo No. 4 with emissions to be controlled by Baghouse PJ-4 (your Baghouse ID DC-5). This baghouse is dedicated to Silo No. 4 only. This is separate from Baghouse PJ-2 (your Baghouse BV-5) or the new Raymond Mill No. 2 baghouse which will be used for carbon transfer to Silo Nos. 1, 2, 3, 8, 9, 10, 11, 12, and now new Silo No. 18, from Mill No. 1 (BV-5) or Mill No. 2 (new Mill 2 baghouse).

Your request below lumps Silo No. 4 in with the other silos (see **green highlighted** reference blow) and does not mention Baghouse DC-5 (see **yellow highlighted** section below). Please clarify for me what baghouse will be used when loading Silo No. 4. (For example, when carbon from Mill No. 1 or Mill No. 2 is transferred to Silo No. 4 will BV-5 or the new Mill 2 baghouse be used, or DC-5 (Silo No. 4 baghouse) ?).

Thanks for your help clearing this up for me.

David

David Zell
FDEP SW District (Tampa)
Air Permit Engineering Specialist

Please take a few minutes to share your comments on the service you received from the department by clicking on this link. [DEP Customer Survey](#).

From: Kristine Switt [mailto:kswitt@standardpurification.com]
Sent: Tuesday, July 03, 2012 10:00 AM
To: Zell, David