

# AIR TESTING & CONSULTING

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

June 16, 2010

David Zell  
Department of Environmental Protection  
13051 North Telecom Parkway  
Temple Terrace, FL 33637-0926

Dept. Of Environmental Protection

JUN 17 2010

Southwest District

Re: Standard Carbon, LLC  
Permit No. 0830170-012-AC

001-AC

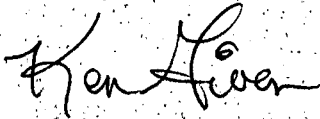
0830170-002-A0

Dear David:

Enclosed is a copy of an application for a non-Title V air operation permit and a check for \$5,000 to cover the application fee.

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

Sincerely,



Kenneth E. Given, P.E.  
President

cc: James Sharpe, Standard Carbon LLC

# AIR OPERATION PERMIT APPLICATION

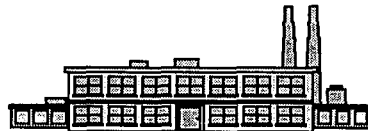
PREPARED FOR:

**STANDARD CARBON LLC**  
DUNNELLON, FLORIDA

08/0170-002-A0

PREPARED BY:

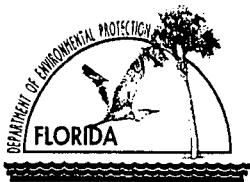
**ATC**



**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)

#### I. APPLICATION INFORMATION

Dept. Of Environmental Protection  
JUN 17 2010  
Southwest District

#### Identification of Facility

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

#### Application Contact

1. Name and Title of Application Contact: <b>JAMES SHARPE / CEO</b>	
2. Application Contact Mailing Address: Organization/Firm: <b>STANDARD CARBON LLC</b> Street Address: <b>551 North U.S. Highway 41</b> City: <b>DUNNELLO</b> County: <b>MARION</b> Zip Code: <b>34432</b>	
3. Application Contact Telephone Numbers: Telephone: <b>(917) 583 - 0834</b> Fax: <b>(561) 624 - 5447</b>	

#### Application Processing Information (DEP Use)

1. Date of Receipt of Application:	<b>6-17-2010</b>
2. Permit Number:	<b>0830170-002-A0</b>

**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: 0830170-012-AC

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

Current construction permit number: \_\_\_\_\_

Operation permit number to be revised: \_\_\_\_\_

- Initial non-Title V air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s):  
\_\_\_\_\_

- Non-Title V air operation permit revision for a synthetic non-Title V source. Give reason for revision; e.g., to address one or more newly constructed or modified emissions units.

Operation permit number to be revised: \_\_\_\_\_

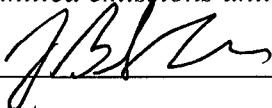
Reason for revision: \_\_\_\_\_

**Air Construction Permit Application**

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

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

Owner/Authorized Representative

1. Name and Title of Owner/Authorized Representative: James Sharpe / CEO	<i>jsharp@standardpurification.com</i>
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: (917) 583 - 0834 Fax: (561) 624 - 5447	
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	<i>6/15/10</i> _____ Date

\* Attach letter of authorization if not currently on file.

**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: ( 917 ) 583 - 0834 Fax: ( 561 ) 624 - 5447
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

\* 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

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4. Professional Engineer Statement:

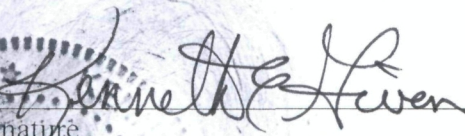
I, the undersigned, hereby certify, except as particularly noted herein\*, that:

(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 [ X ], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Signature 

Date 6-16-10

(seal)

Attach any exception to certification statement.

**Scope of Application**

<b>Emissions Unit ID</b>	<b>Description of Emissions Unit</b>	<b>Permit Type</b>	<b>Processing Fee</b>
001	Fly Ash Truck Receiving/Unloading with baghouse PJ-T	AO2B	\$1,000
002	Fly Ash Storage Silos with baghouse PJ-1	AO2B	\$1,000
003 & 004	Kiln Feed Hoppers K1 & K42 with baghouse PJ-2	AO2B	
005	Kilns No. 1 & 2 w/Combustion Chambers No. 1 & 2 with baghouses Ray Jet FF259 (2)	AO2B	\$1,000
006	Raymond Mill with baghouse MikroPulse 65810	AO2B	\$1,000
009	Carbon Storage Silos with Baghouse PJ-4	AO2B	
010	Carbon Storage Silos 14 & 16 with baghouse PJ-6	AO2B	
011	Bulk Truck/Railcar Carbon Loading with baghouse PJ-6	AO2B	
012	Bagging Storage Tower with baghouse - Flex-Kleen Model 84BVBS-25.	AO2B	
013	Bagging Hopper and Bagging machine with Baghouse Mahle Model 25-FK	AO2B	\$1,000

**Application Processing Fee**

Check one:  Attached - Amount: \$ 5,000  Not Applicable



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**Construction/Modification Information**

1. Description of Proposed Project or Alterations:

Standard Carbon LLC has received fly ash at 70% moisture and cannot handle it in the new truck unloading unit. It has to be stored on the pavement. The wet fly ash is put into portable bins and taken to the kilns by forklift. The kiln hoppers have their lids removed and the wet fly ash is dumped into the hopper and gravity fed into the kiln. The piles of fly ash are covered with tarps and there is a water hose handy in case there is any dusting.

The Raymond Mill has a feed hopper and an outlet hopper. A baghouse has been added to capture emissions from these hoppers.

The bagging hopper and bagging machine vent to a baghouse. It was labeled as a bin vent in the permit but it has a fan and will have to be identified as a baghouse.

The Ball Mill and the Whizzer are not to be included in the process.

2. Projected or Actual Date of Commencement of Construction:

3. Projected Date of Completion of Construction:

**Application Comment**

[Empty box for Application Comment]



**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



### C. FACILITY SUPPLEMENTAL INFORMATION

#### Supplemental Requirements

1. Area Map Showing Facility Location: [ ] Attached, Document ID:____ [ ] Not Applicable [ X ] Waiver Requested
2. Facility Plot Plan: [ X ] Attached, Document ID: <u>A</u> [ ] Not Applicable [ ] Waiver Requested
3. Process Flow Diagram(s): [ X ] Attached, Document ID: <u>B</u> [ ] Not Applicable [ ] Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: [ X ] Attached, Document ID: <u>C</u> [ ] Not Applicable [ ] Waiver Requested
5. Supplemental Information for Construction Permit Application: [ X ] Attached, Document ID: <u>E</u> [ ] Not Applicable
6. Supplemental Requirements Comment:

**III. EMISSIONS UNIT INFORMATION**

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

**A. GENERAL EMISSIONS UNIT INFORMATION**

**Emissions Unit Description and Status**

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.</p>		
<p>2. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Fly Ash truck receiving/unloading and transfer to storage.</p>		
<p>3. Emissions Unit Identification Number: <span style="float: right;"><input type="checkbox"/> No ID</span> ID: 001 <span style="float: right;"><input type="checkbox"/> ID Unknown</span></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)</p> <p>Fly ash will be unloaded from a truck into (4) receiving hoppers in a new building that will be connected to baghouse PJ-T for fugitive emissions control. Blower BLT-1 will transfer fly ash from the two north hoppers to the storage silos. Blower BLT-2 will transfer fly ash from the two south hoppers to the storage silos.</p> <p>Alternately, wet fly ash (70% moisture) will be stored on the pavement and fed into the kiln hoppers using a bin and a forklift to reach the hoppers. Fly Ash piles will be covered with tarps and water hoses will be available to wet pile surfaces if needed.</p>		

**Emissions Unit Control Equipment**

<p>1. Control Equipment/Method Description (limit to 200 characters per device or method):                  PJ-T - Kinetic-Air Model No. 100-SL120 – design air flow 6,000 scfm</p>
<p>2. Control Device or Method Code(s): 018</p>

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**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:	20 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): Alternative Receiving and Storage –  Wet (70% moisture) fly ash will be stored on the pavement. The piles will be covered with tarps and a water hose will be available in case there is some dusting.			



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

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

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Fly Ash truck unloading		
2. Source Classification Code (SCC):		3. SCC Units: Tons Handled
4. Maximum Hourly Rate: 20	5. Maximum Annual Rate: 175,200	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: 0.411 lb/hour                      1.8      tons/year		7. Synthetically Limited? [   ]	
8. Emission Factor: 0.008 grs/cf Reference: Supplier		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 = 0.411 lbs/hr 0.411 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): Fly ash received wet (70% moisture) and stored outdoors will not be an emission source. The piles will be covered with tarps and a water hose will be nearby.			

**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	
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 checked="" type="checkbox"/> Attached, Document ID: <u> B </u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input checked="" type="checkbox"/> Attached, Document ID: <u> D </u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" 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): Fly Ash storage silos – 3, 5, 9, 11 and Tank 1. Silo #5 will be a future addition to replace the old silo #5</p>		
<p>3. Emissions Unit Identification Number: ID: 002</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)</p> <p>Fly ash will be transferred from truck receiving to storage silo numbers 3, 5, 9, 11 and Tank 1.</p>		

**Emissions Unit Control Equipment**

1. Control Equipment/Method Description (limit to 200 characters per device or method): PJ-1 – Kinetic-Air model No. 72-SL-120, dust collector 4,000 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: 20 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: 4,000 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 fly ash		
2. Source Classification Code (SCC):		3. SCC Units: Tons Handled
4. Maximum Hourly Rate: 20	5. Maximum Annual Rate: 175,200	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: E = 4,000 cfm x 60 min/hr x 0.008 grs/cf x 1 lb/7,000 grs = 0.274 lbs/hr 0.274 lbs/hr x 8,760 hrs/yr x ton/2,000 lbs = 1.2 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):	



**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):  Transfer from flyash storage silos to Kiln feed hoppers K1& K2 with baghouse PJ-2		
3. Emissions Unit Identification Number: <span style="float: right;">[ ] No ID</span> ID: 003 & 004 <span style="float: right;">[ ] ID Unknown</span>		
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) EU 003 - Kiln #1 receives from Hopper K1 and vents through PJ-2. EU 004 - Kiln #2 receives from Hopper K2 and vents through PJ-2		



**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: P	6. Stack Height: feet	7. Exit Diameter: feet	
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate: 1000 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 fly ash to Kiln Hoppers		
2. Source Classification Code (SCC):		3. SCC Units: Tons Processed
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:	5. Total Percent Efficiency of Control:	
6. Potential Emissions: 0.0686 lb/hour      0.3      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-2 & PJ-3: E = 1,000 cfm x 60 min/hr x 0.008 grs/cf x 1 lb/7,000 grs = 0.0686 lbs/hr 0.0686 lbs/hr x 8,760 hrs/yr x ton/2,000 lbs = 0.3 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: lbs/hr	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: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Requested Allowable Opacity: Normal Conditions:      5    %      Exceptional Conditions: Maximum Period of Excess Opacity Allowed:	
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)	

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

**Continuous Monitoring System:** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information: Manufacturer: Model Number:      Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

**G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION**

**Supplemental Requirements**

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u>B</u> <input type="checkbox"/> Not Applicable <input 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 checked="" type="checkbox"/> Attached, Document ID: <u>D</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" 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. 1 & 2 w/ Combustion Chambers No. 1 & 2		
3. Emissions Unit Identification Number: ID: 005		<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) Kilns will be fired with natural gas.		

**Emissions Unit Control Equipment**

<p>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)</p> <p>Flow for each 2,500 cfm</p>
<p>2. Control Device or Method Code(s): 018, 075</p>

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**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:	8	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: 30 feet	7. Exit Diameter: 1 feet	
8. Exit Temperature: 400 °F	9. Actual Volumetric Flow Rate: 5,000 acfm	10. Water Vapor: 10 %	
11. Maximum Dry Standard Flow Rate: 2,700 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: 0.00952	5. Maximum Annual Rate: 83.43	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 two kilns each are rated at 8.0 MMBTU/HR		

**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: 0.694 lb/hour      3.04 tons/year		7. Synthetically Limited? [ X ]	
8. Emission Factor: 0.03 gr/dscf Reference: manufacturer.		9. Emissions Method Code: 0	
10. Calculation of Emissions (limit to 600 characters): $E = 2,700 \text{ cfm} \times 60 \text{ min/hr} \times 0.03 \text{ grs/cf} \times 1 \text{ lb/7,000 grs} = 0.694 \text{ lbs/hr}$ $0.694 \text{ lbs/hr} \times 8,760 \text{ hrs/yr} \times \text{ton}/2,000 \text{ lbs} = 3.04 \text{ tons/yr}$  Total for both kilns = 1.388 lbs/hr = 6.08 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: 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): Allowable emission per 296.320(a) 2 – $E = 3.59 \times 2^{0.62} = 5.52 \text{ lbs/hr} = 24.17 \text{ TPY}$ for each kiln	

**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 checked="" type="checkbox"/> Attached, Document ID: <u>B</u> <input type="checkbox"/> Not Applicable <input 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 checked="" type="checkbox"/> Attached, Document ID: <u>D</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously submitted, Date: <u>Kiln #1 Tested on May 3, 2010, Kiln #2 – June 2</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): Raymond Mill for grinding carbon		
3. Emissions Unit Identification Number: <span style="float: right;">[ ] No ID</span> ID: 006 <span style="float: right;">[ ] ID Unknown</span>		
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)		

**Emissions Unit Control Equipment**

1. Control Equipment/Method Description (limit to 200 characters per device or method): Mikro-Pulsaire, Type 64S820 Air flow -3600 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: V	6. Stack Height: feet	7. Exit Diameter: 1 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: 25 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): 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: 0.874 lb/hour                      3.83 tons/year		7. Synthetically Limited? [ X ]	
8. Emission Factor: 0.03 gr/dscf Reference: 62-296.320(a)2 F.A.C.		9. Emissions Method Code: 0	
10. Calculation of Emissions (limit to 600 characters):  $E = 3,400 \text{ cfm} \times 60 \text{ min/hr} \times 0.03 \text{ grs/cf} \times 1 \text{ lb}/7,000 \text{ grs} = 0.874 \text{ lbs/hr}$ $0.874 \text{ lbs/hr} \times 8,760 \text{ hrs/yr} \times \text{ton}/2,000 \text{ lbs} = 3.83 \text{ tons/yr}$			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

**Allowable Emissions** Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: 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):  Per 62-296.320(a)2 F.A.C. $E = 3.59 \times 4^{0.62} = 8.48 \text{ lbs/hr} \times \text{hr} / 4 \text{ tons} = 2.12 \text{ lbs/ton}$ $E = 8.48 \text{ lbs/hr} \times 8,760 \text{ hrs/yr} \times \text{ton}/2,000 \text{ lbs} = 37.14 \text{ tons/yr}$	

**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 checked="" type="checkbox"/> Attached, Document ID: <u>B</u> <input type="checkbox"/> Not Applicable <input 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 checked="" type="checkbox"/> Attached, Document ID: <u>D</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously submitted, Date: <u>Tested May 3, 2010</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**

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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): Carbon Storage Silo loading and storage with Baghouse PJ-4		
3. Emissions Unit Identification Number: <span style="float: right;">[ ] No ID</span> ID: 009 <span style="float: right;">[ ] ID Unknown</span>		
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) Carbon is pneumatically transferred from the Raymond Mill outlet hopper to carbon silos 2, 4, 6, 8, 10 & 12. The silos vent through PJ-4 at 600 cfm.		

**Emissions Unit Control Equipment**

1. Control Equipment/Method Description (limit to 200 characters per device or method): PJ-4 – Kinetic-Air model No. 12-RS-84, pulse jet 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: 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):  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 gr/dscf Reference: Manufacturer		9. Emissions Method Code: 0	
10. Calculation of Emissions (limit to 600 characters): PJ-4: E = 600 cfm x 60 min/hr x 0.008 grs/cf x 1 lb/7,000 grs = 0.041 lbs/hr 0.041 lbs/hr x 8,760 hrs/yr x ton/2,000 lbs = 0.18 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: 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	
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 checked="" type="checkbox"/> Attached, Document ID: <u>B</u> <input type="checkbox"/> Not Applicable <input 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 checked="" type="checkbox"/> Attached, Document ID: <u>D</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously submitted, Date: <u>Tested May 3, 2010</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): Carbon Silos 14 and 16		
3. Emissions Unit Identification Number: ID: 010 <span style="float: right;"> <input type="checkbox"/> No ID  <input type="checkbox"/> ID Unknown                 </span>		
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)		



**Emissions Unit Control Equipment**

1. Control Equipment/Method Description (limit to 200 characters per device or method):  PJ-6 – Kinetic-Air model No. 16-RS-84, pulse jet dust collector - 800 scfm	
Dept. Of Environmental Protection <b>JUN 17 2010</b> Southwest District	
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: P	6. Stack Height: feet	7. Exit Diameter: feet	
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate: 150 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):  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 silos		
2. Source Classification Code (SCC):		3. SCC Units: Tons Handled
4. Maximum Hourly Rate: 4	5. Maximum Annual Rate: 8,760	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: 0.55 lb/hour      0.241 tons/year		7. Synthetically Limited? [ ]	
8. Emission Factor: 13.03 lbs/hr Reference: 62-296.320(a)2 F.A.C.		9. Emissions Method Code: 0	
10. Calculation of Emissions (limit to 600 characters): PJ-6: E = 800 cfm x 60 min/hr x 0.008 grs/cf x 1 lb/7,000 grs = 0.055 lbs/hr 0.55 lbs/hr x 8,760 hrs/yr x ton/2,000 lbs = 0.241 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: 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 checked="" type="checkbox"/> Attached, Document ID: <u>B</u> <input type="checkbox"/> Not Applicable <input 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 checked="" type="checkbox"/> Attached, Document ID: <u>D</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously submitted, Date: <u>Tested May 3, 2010</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): Truck/Railcar bulk loading system using Storage Silos #14 & #16 and a fabric filter to control emissions. Trucks are loaded from the silos by gravity through a Rotor Lock valve.		
3. Emissions Unit Identification Number: <span style="float: right;">[ ] No ID</span> ID: 011 <span style="float: right;">[ ] ID Unknown</span>		
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) Carbon is received into Carbon Silos #14 & #16 from Carbon Silos 2, 4, 6, 8, 10, or 12. Carbon Silos # 14 and #16 are positioned above the railroad tracks where trucks/railcars are loaded. The silo exhausts through PJ-6. Also, when the trucks/railcars are loaded the exhaust is captured by PJ-6.		

**Emissions Unit Control Equipment**

1. Control Equipment/Method Description (limit to 200 characters per device or method):  
 PJ-6 – Kinetic-Air model No. 16-RS-84, pulse jet dust collector  
 800 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: P	6. Stack Height: feet	7. Exit Diameter: feet	
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate: 800 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):  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 activated carbon to Silos Nos. 14 & 16 which are 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):		



**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	
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 checked="" type="checkbox"/> Attached, Document ID: <u>B</u> <input type="checkbox"/> Not Applicable <input 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 checked="" type="checkbox"/> Attached, Document ID: <u>D</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously submitted, Date: <u>Tested May 3, 2010</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): Activated carbon bagging system</p>		
<p>3. Emissions Unit Identification Number: <span style="float: right;">[ ] No ID</span> ID: 012 &amp; 013 <span style="float: right;">[ ] ID Unknown</span></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)</p> <p>Carbon is pneumatically transferred from the carbon silos to the bagging storage tower (EU 012), venting through a Flex-Kleen Model 84BVBS-25 baghouse. It gravity feeds to the bagging hopper and then into the bagging machine, venting through a Mahle Model 25-FK baghouse.</p>		

**Emissions Unit Control Equipment**

1. Control Equipment/Method Description (limit to 200 characters per device or method):  
 EU 012 - Flex-Kleen Model 84BVBS-25 baghouse – 600 CFM

EU 013 Mahle Model 25-FK baghouse. The airflow is unknown

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: 1 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: 3 %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: 40 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): Bagging of activated carbon		
2. Source Classification Code (SCC):		3. SCC Units: Tons Handled
4. Maximum Hourly Rate: 1	5. Maximum Annual Rate: 8,760	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 2 of 2

1. Segment Description (Process/Fuel Type ) (limit to 500 characters): Transfer of carbon to bagging system.		
2. Source Classification Code (SCC):		3. SCC Units:
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):		

**D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION**

**Potential Emissions**

1. Pollutant Emitted: PM		2. Pollutant Regulatory Code:	
3. Primary Control Device Code: 018	4. Secondary Control Device Code:	5. Total Percent Efficiency of Control:	
6. Potential Emissions: 0.154 lb/hour      0.676 tons/year		7. Synthetically Limited? [ ]	
8. Emission Factor: 0.03 grs/cf Reference: baghouse supplier		9. Emissions Method Code: 0	
10. Calculation of Emissions (limit to 600 characters): Flex-Kleen: E = 600 cfm x 60 min/hr x 0.03 grs/cf x 1 lb/7,000 grs = 0.154 lbs/hr 0.257 lbs/hr x 8,760 hrs/yr x ton/2,000 lbs = 0.676 tons/yr			
11. Pollutant Potential Emissions Comment (limit to 200 characters):			

**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	
10. 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):	

Dept. Of Environmental Protection  
**JUN 17 2010**  
 Southwest District

**G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION**

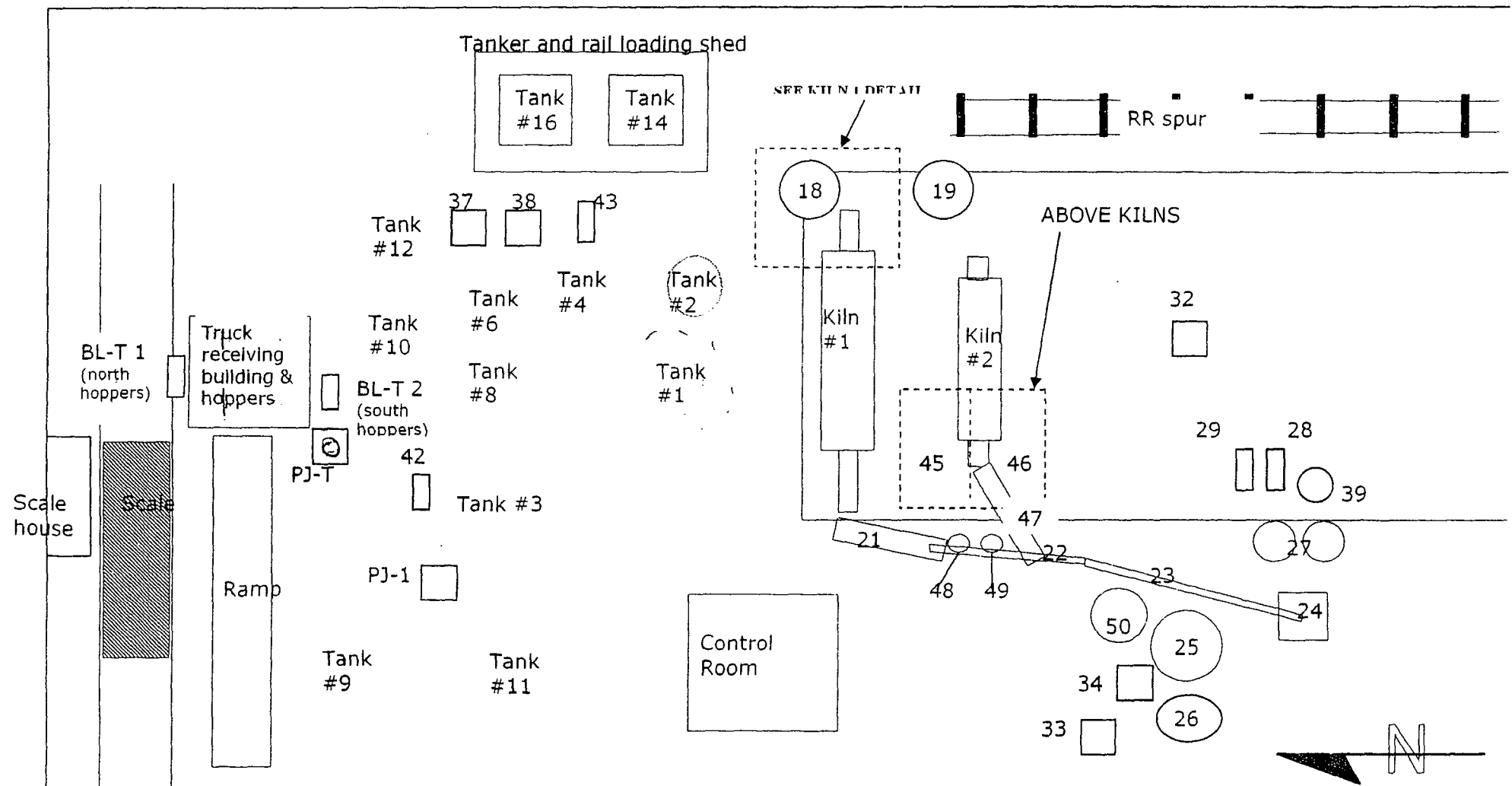
Supplemental Requirements

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: <u>B</u> <input type="checkbox"/> Not Applicable <input 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 checked="" type="checkbox"/> Attached, Document ID: <u>D</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Previously submitted, Date: <u>Tested June 2, 2010</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:

**FACILITY SUPPLEMENTAL  
INFORMATION**

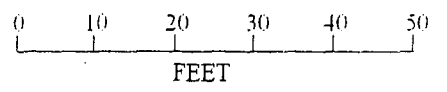


## **A. FACILITY PLOT PLAN**



**Figure 1: STANDARD PURIFICATION**  
**General Location Plan - Optional Plant and Equipment Locations**

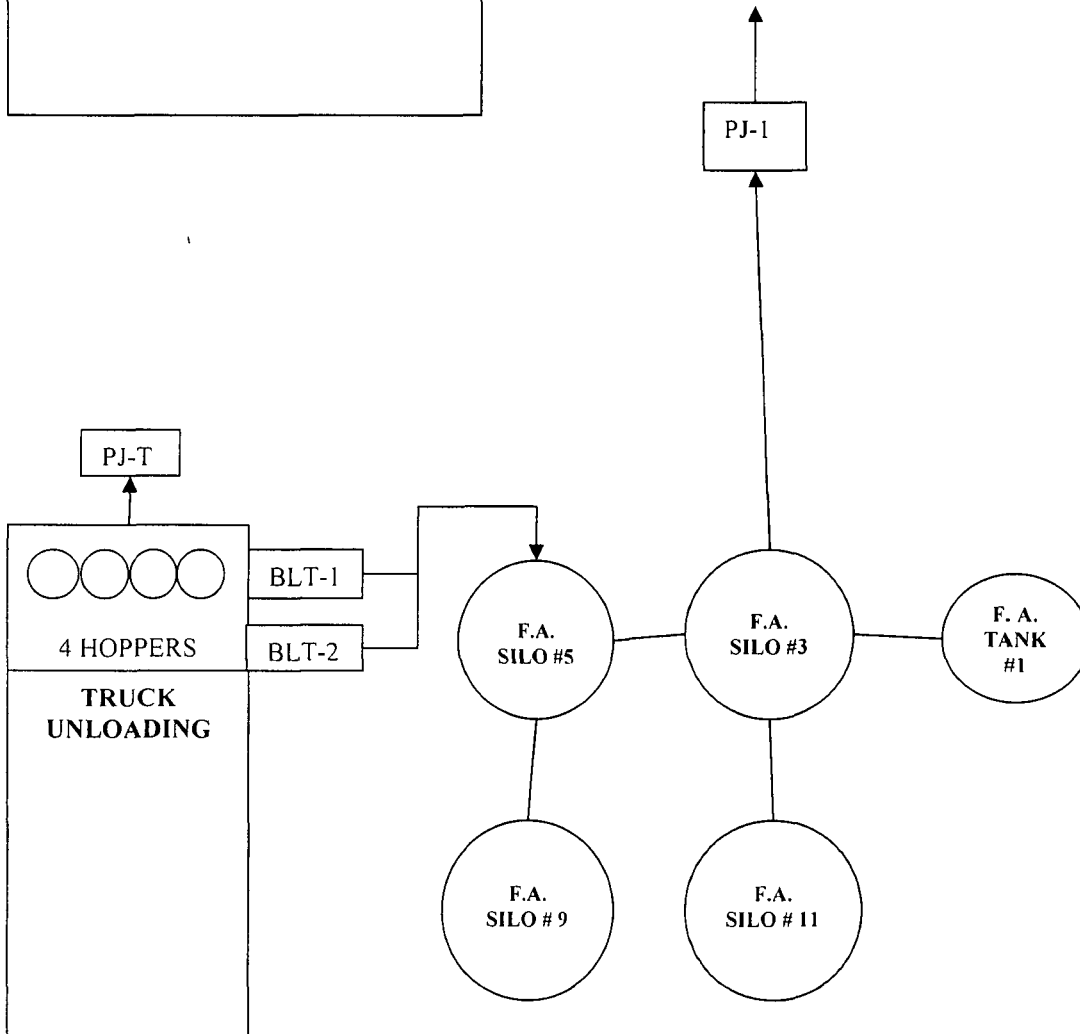
- Dust Collector
- Blower



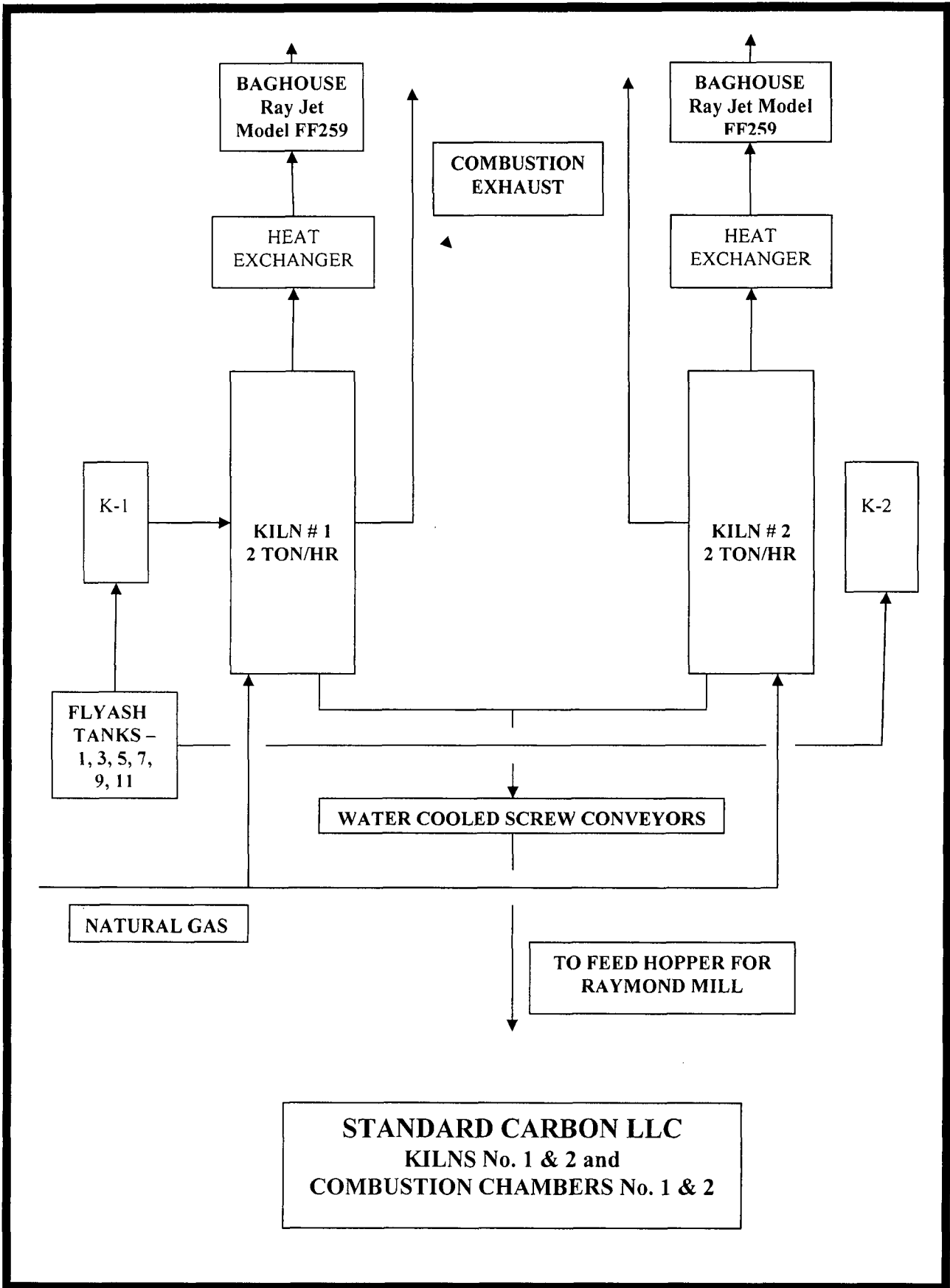
**B. PROCESS FLOW  
DIAGRAMS**



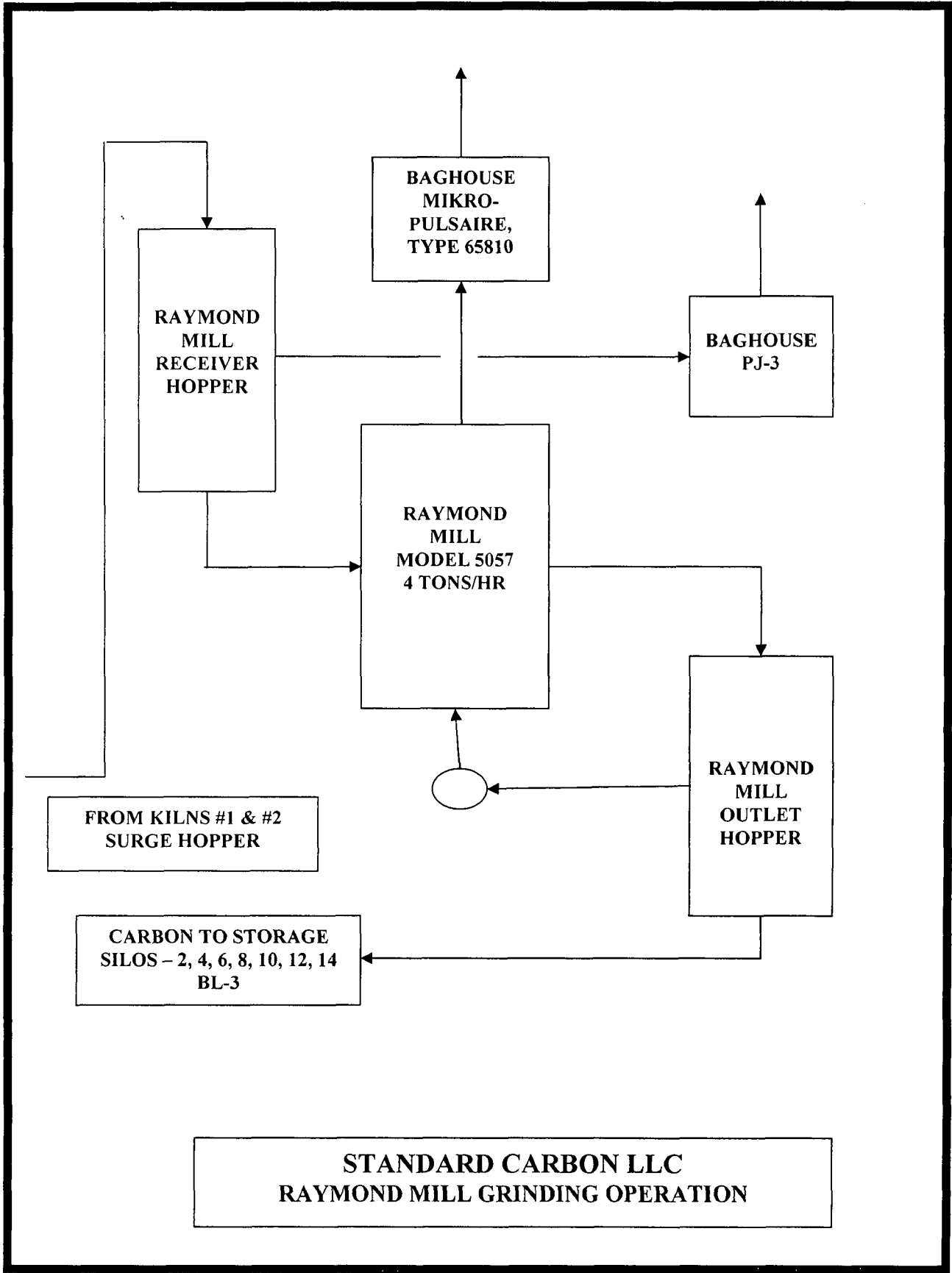
FLY ASH STORAGE PILES

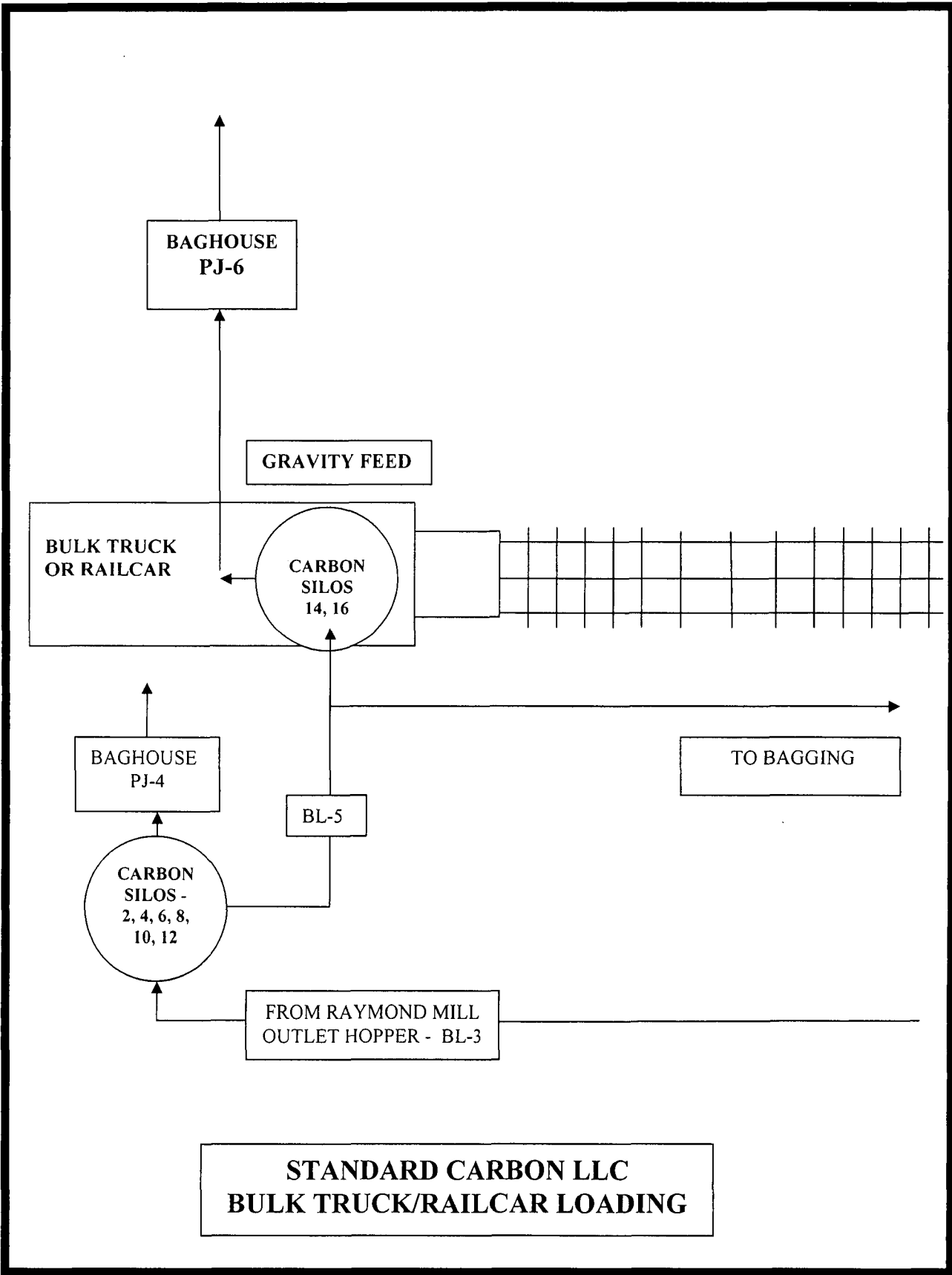


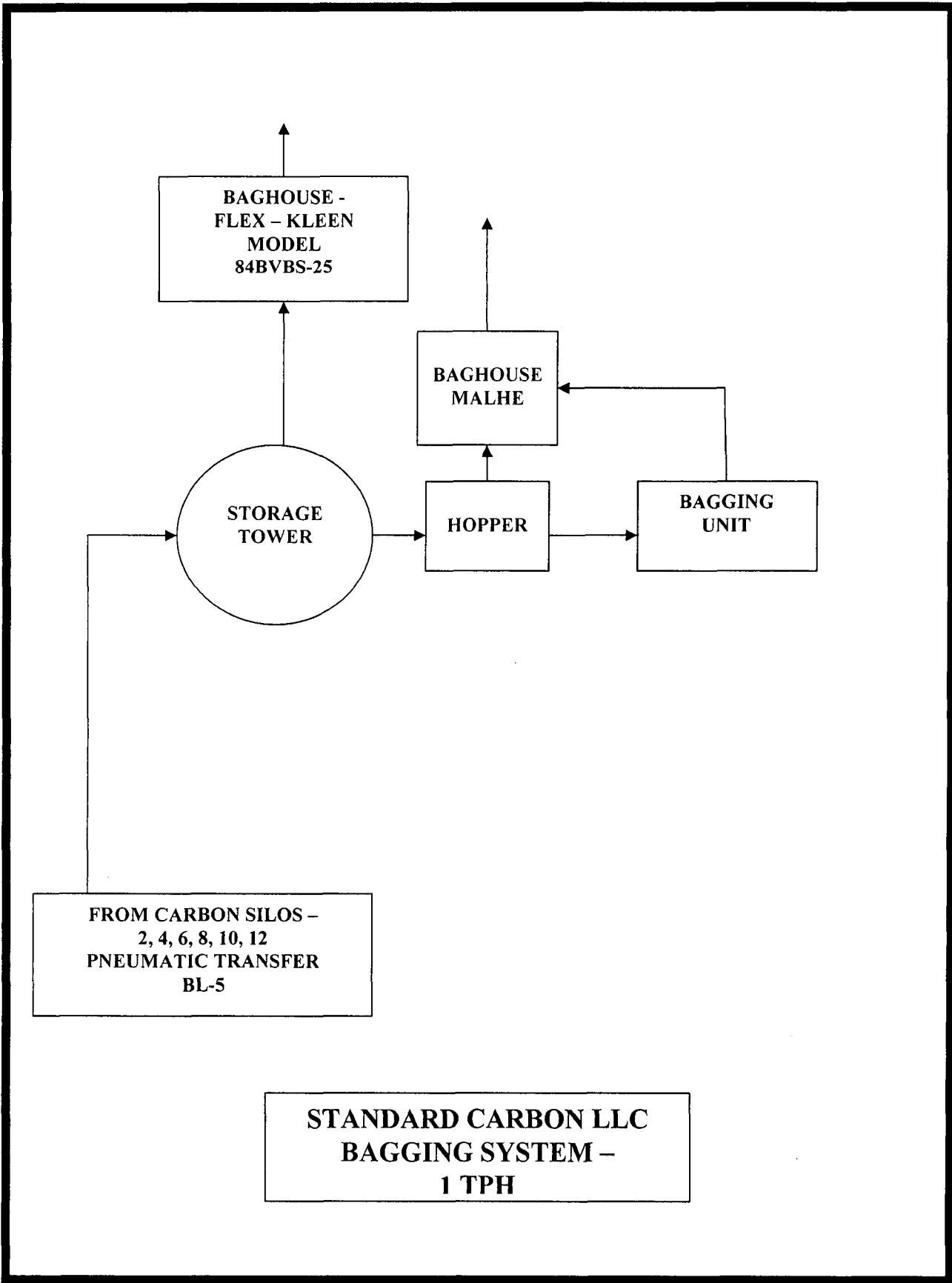
**STANDARD CARBON LLC  
FLY ASH RECEIVING AND  
STORAGE**



**STANDARD CARBON LLC**  
KILNS No. 1 & 2 and  
COMBUSTION CHAMBERS No. 1 & 2







FROM CARBON SILOS -  
2, 4, 6, 8, 10, 12  
PNEUMATIC TRANSFER  
BL-5

BAGHOUSE -  
FLEX - KLEEN  
MODEL  
84BVBS-25

BAGHOUSE  
MALHE

STORAGE  
TOWER

HOPPER

BAGGING  
UNIT

STANDARD CARBON LLC  
BAGGING SYSTEM -  
1 TPH

**C. PRECAUTIONS TO  
PREVENT EMISSIONS OF  
UNCONFINED PM**

## **Precautions to Prevent Emissions of Unconfined Particulate Matter**

All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provisions in Rule 62-296.320(4)(c), F.A.C. These provisions are applicable to any source, including but not limited to, vehicular movement, transportation of materials, or industrial related activities such as loading, unloading, storing, and handling of materials including ash from the incinerator. Applicable reasonable precautions to be taken include the following:

- Paving and maintenance of roads, parking areas and yards, when necessary.
- Application of water or non-hazardous chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
- Application of water or non-hazardous chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
- Removal of particulate matter from roads and other paved areas to prevent entrainment, and from buildings or work areas to prevent particulate from becoming airborne.
- Landscaping or planting of vegetation.
- Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
- Confine abrasive blasting where possible.
- Fly Ash Piles will be covered with tarps. Water hose will be available to water piles if surface dries.



## **D. CONTROL EQUIPMENT**



**Standard Purification  
Air Permit  
Equipment Ratings**

Permit ID	<b>New Baghouses</b>	<b>Model Number</b>	<b>Manufacturer</b>	<b>SCFM</b>
PJ-T	Truck Unloading	100-SL-120	Kinetic-Air	6,000
PJ-1	9 and 11 Silo	72-SL-120	Kinetic-Air	4,000
PJ-2	K Hopper Bin Vent	36-BV-84	Kinetic-Air	1,000
PJ-6	Silo 14	16-RS-84	Kinetic-Air	800
PJ-4	Silo 8, 10, 12	12-RS-84	Kinetic-Air	600
PJ-3	Surge hopper/fines hopper	12-RS-84	Kinetic-Air	600

<b>Upgraded Baghouses</b>	<b>Model Number</b>	<b>Manufacturer</b>	<b>SCFM</b>
Raymond Mill BH	64S820	Mikro-Pulsaire	3,600
Bagging Vent Silo	25-FK	Mahle	No records.
Kiln 1	48-SL-108	SDC	2,500
Kiln 2	48-SL-108	SDC	2,500

**Production Reports**

<b>Month</b>	<b>Tons Produced</b>
April	115.5
May	84.9



**E. SUPPLEMENTAL  
INFORMATION**



# **PROCESS DESCRIPTION**

## STANDARD CARBON, LLC

### PROCESS DESCRIPTION

This facility produces activated carbon using recovered fly ash. (Note: This facility will consist of some new equipment, and some existing equipment from an activated carbon production facility previously operated at this site.)

#### Fly Ash Truck Receiving/Unloading (EU 001)

Fly ash will be received via trucks and unloaded by dumping into four new fly ash receiving hoppers which will be housed in a new truck receiving building to control fugitive dust emissions. Emissions from the fly ash unloading activities in this building will be controlled by a new pulse-jet baghouse dust control device (Baghouse PJ-T). The new fan associated with this baghouse will also maintain a slight negative pressure in the receiving building to enhance fugitive dust control. The building's receiving door (approx 12' x 20') will also be equipped with plastic sheets to contain fugitive dust emissions.

#### Fly Ash Truck Receiving/Unloading/Storage (EU 001) – Alternative

Fly ash will sometimes be received at approximately 70% moisture content. The material is too wet to be handled in the new unloading system. The wet fly ash is dumped on the pavement and covered with tarps. There is a water hose available to wet the surface of the pile if necessary. Since the fly ash is approximately 70% moisture, dusting is not a problem when received. Precautions are taken to prevent dusting in case the pile surface dries and it becomes windy enough to blow fly ash off the pile surface. In order to load the kilns the wet fly ash is loaded into a bin and taken by forklift to the kilns. The bin is elevated above the kiln's fly ash hopper which has its lid removed. The fly ash is then dumped into the hopper where it feeds into the kiln.

#### Fly Ash Storage Silos (EU 002)

Fly Ash from the two north receiving hoppers (with Blower BLT-1) and the two south receiving hoppers (with Blower BLT-2) will be pneumatically transferred to the Fly Ash storage silos (FA Silo Nos. 3, 5, 9, 11 and Tank 1). The silos will exhaust to a new pulse-jet receiver baghouse (Baghouse PJ-1).

#### Kiln Fly Ash Hoppers (EU's 003 and 004)

Fly ash from the storage silos will be transferred pneumatically (using Blower BL-1) to two new kiln fly ash hoppers, one for each of the two kilns (Hopper K1 for Kiln No. 1, and Hopper K2 for Kiln No. 2). Particulate matter emissions from the fly ash transfer to Hoppers K1 (EU 003) and K2 (EU 004) will be ducted to and controlled by Baghouse PJ-2.

#### Activated Carbon Kilns (EU 005)

Fly ash from the kiln fly ash hoppers will be gravity fed into their respective kilns (Kiln Nos. 1 and 2) for conversion into activated carbon. The kilns each have a separate combustion chamber such that the kiln itself is heated indirectly and the combustion gases do not come into direct contact with the fly ash. The combustion chambers are fired with natural gas as the primary fuel at a maximum heat input rate of 8.0 MMBTU/hour for each combustion chamber, and exhaust through separate stacks from the kilns. (*Permitting Note: Each of the combustion chambers are*

**PERMITTEE:**  
Standard Carbon LLC

**Permit No.:** 0830170-001-AC  
**Project:** Activated Carbon  
Production Facility

*exempt from permitting in accordance Rule 62-210.300(3)(b)1. F.A.C.)* Steam for injection into the kilns will be supplied by new electric boilers (future addition if needed). Exhaust gases from each of the kilns will pass through one of two existing cyclone separator precleaners and separate heat exchanger prior to the emission control devices (two existing Ray Jet Model FF259 baghouse with a maximum design air flow rate of 2,900 dscfm). The total estimated carbon product from each kiln is expected to be 1.0 tons/hour. Fines removed from the exhaust stream collect in a fines hopper from both baghouses. The fines then pass through a rotary lock valve and are transferred pneumatically (BL-2) to the Raymond Mill Receiving Hopper. A pulse-jet baghouse (PJ-3) will control particulate matter emissions from the transfer of the fines to the RM Receiving Hopper.

#### Raymond Mill (EU 006)

The activated carbon from each kiln discharges via a cooling screw conveyor which cools and transfers the activated carbon to a surge hopper. The unground activated carbon then passes through a rotary valve and is pneumatically transferred (BL-2) to the Raymond Mill Receiving Hopper. A pulse-jet baghouse (PJ-3) will control particulate matter emissions from the transfer of the carbon to the RM Receiving Hopper. The Model 5057 Raymond Mill (EU 006) has rollers in it that will grind (mill) the product into a smaller size. The mill includes a blower which supplies air to lift the ground carbon up through an internal whizzer which is part of the mill. The whizzer spins like a bicycle wheel with spokes, and the finely ground carbon passes through the whizzer while larger particles are knocked down. The Raymond Mill will operate at an estimated maximum material input rate of 4.0 tons/hour. Particulate matter emissions from the Raymond Mill will be controlled by an existing Mikro-Pulsaire Type 65810 baghouse with a maximum design air flow rate of 3,400 dscfm.

#### Carbon Storage Silos (EU's 009)

The Raymond Mill discharges the activated carbon to the Raymond Mill Outlet Hopper. From the Outlet Hopper the carbon is pneumatically transferred (using Blower BL-3) to Carbon Storage Silos (Nos. 2, 4, 6, 8, 10, and 12). A pulse-jet baghouse (Baghouse PJ-4) will control particulate matter emissions from the transfer of carbon to Carbon Silos.

#### Alternative Carbon Storage

Fly Ash Storage Silos Nos. 9 and 11 may be used for carbon storage at a future time. Piping for pneumatic transfer exists and would only require minor changes in the piping.

#### Bulk Truck/Railcar Carbon Loading (EU 011)

Carbon for bulk truck/railcar loading will be transferred to Carbon Silo 14 or 16 from the Carbon Storage Silos. When the carbon is pneumatically (PB-5) transferred from one of the carbon silos, it vents through a new pulse jet baghouse (Baghouse PJ-6). Carbon Silos 14 and 16 are located above the railroad tracks where trucks or railcars are loaded with finished carbon product for shipment. Trucks/railcars are loaded from the silo by gravity through a Rotor Lock valve. Particulate matter emissions from transfer of carbon to Carbon Silos 14 and 16 and from truck/

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Standard Carbon LLC

**Permit No.:** 0830170-001-AC  
**Project:** Activated Carbon  
Production Facility

railcar loading are controlled by Baghouse PJ-6. Carbon Silos 14 and 16 will be vented through PJ-6.

Bagging System (EU's 012 and 013)

Carbon for bagging will be transferred pneumatically (using Blower BL-5) from the carbon silos to the Bagging Storage Tower (EU 012). From this tower the carbon will drop into the Bagging Hopper, and from the hopper drop into the Bagging Unit (EU 013), which consists of a manual operation bagging machine. The Bagging Unit operates at a maximum design rate of 1.0 ton/hour. Particulate matter emissions from the Bagging Storage Tower are vented to and controlled by an existing Flex-Kleen Model 84BVBS-25 baghouse with a maximum design air flow rate of 600 dscfm. The Bagging Hopper and Bagging Unit exhaust to a small baghouse.

Blower Note: All of the blowers (BL) used to move flyash and activated carbon are fixed speed.

As-built changes:

- 1) Alternative receiving and storage of fly ash. Due to the high moisture content (70%) of the fly ash the new system cannot be used. Fly ash is unloaded to pavement on the north side of the facility near the bagging building. The wet fly ash is covered with tarps. The fly ash is taken from the piles and loaded into a bin. The loaded bin is taken by a forklift to a Kiln Hopper. The bin is raised to the top of the hopper and dumped. It then is gravity fed into its kiln.
- 2) Each Kiln has one Hopper instead of two.
- 3) The exhaust of each kiln baghouse vents through its own stack.
- 4) Hopper K1 and K2 both exhaust to Baghouse PJ-2 when fly ash is transferred from the Fly Ash Storage Silos.
- 5) Ball Mill No. 1 was removed from the facility and will not be used.
- 6) The whizzer was removed from the facility and will not be used.
- 7) The facility plans to use Fly Ash Silos Nos. 1, 3, 9 & 11 and Tank No.1 for fly ash storage. They also plan to replace silo No. 5.
- 8) The original design for the new PJ baghouses was to elevate them above the equipment they serve. The fly ash or carbon was to pass through the baghouse with the material being gravity fed to the equipment while the transport air vented through the bags controlling emissions. The process now is for the fly ash or carbon to be transported to the equipment and the transport air to exhaust through the baghouse.
- 9) On the exhaust of the Kilns the proposed new condensing heat exchangers were not installed. Also the proposed electric boilers were not installed but may be in the future.
- 10) Fines are removed from the cyclone separator precleaner and other equipment and are carried to a fines surge hopper and from there is taken to the Raymond Mill Receiving Hopper. Exhaust from it passes through PJ-3. The RM Outlet Hopper exhausts through the RM baghouse (Mikro-Pulsaire).

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- 11) Carbon will be stored in Carbon Silos Nos. 2, 4, 6, 8, 10 & 12. Carbon Silos 14 and 16 will receive carbon from the storage silos for loading Truck/Railcars.
- 12) The Bagging Hopper and bagger both vent through the Mahle baghouse.



# PRODUCTION



# STANDARD CARBON PRODUCTION

## Activated Carbon Product

Month	Loaded to Trucks	Loaded to Railcars	Bagged	Total Shipped	Total Production
JAN					
FEB					
MAR					
APR	63	0	15.725	78.725	115
MAY	27.875	0	13.05	40.925	84.9
JUN					
JUL					
AUG					
SEP					
OCT					
NOV					
DEC					
Total	90.875	0	28.775	119.65	199.9

**VISIBLE EMISSIONS  
REPORTS**

# AIR TESTING & CONSULTING, INC.

(813) 651-0878

Facility Name <b>STANDARD CARBON</b>		Permit Number <b>0830170-001-AC</b>		Observation Date <b>5-3-10</b>		Start Time <b>12:25</b>		Stop Time <b>12:55</b>							
Source <b>ACTIVATED CARBON PLANT</b>			I.D. No. <b>005</b>		SEC	0	15	30	45	SEC	0	15	30	45	
Address <b>551 NORTH U.S. HIGHWAY 41</b>										MIN	0	15	30	45	
City <b>DUNNELLON</b>		County <b>MARION</b>		Zip <b>34432</b>		1.	0	0	0	0	31.				
Contact <b>JIM SHARPE</b>			Phone <b>917-583-0834</b>			2.	0	0	0	0	32.				
Process Equipment <b>KILN 1</b>				Max. Operating Rate <b>0.6 TPH</b>				3.	0	0	0	0	33.		
Control Equipment <b>BAGHOUSE RAYJET (2)</b>				Operating Mode				4.	0	0	0	0	34.		
Fuel Type/Rate <b>NATURAL GAS</b>		Material Type/Rate <b>FLY ASH</b>				5.	0	0	0	0	35.				
Describe Emission Point Start <b>BH Stack Exit</b>						6.	0	0	0	0	36.				
Height Above Ground Level Start <b>~30</b> Stop <input checked="" type="checkbox"/>		Height Relative to Observer Start <b>~25</b> Stop <input checked="" type="checkbox"/>				7.	0	0	0	0	37.				
Distance from Observer Start <b>~80</b> Stop <input checked="" type="checkbox"/>		Direction from Observer Start <b>W</b> Stop <input checked="" type="checkbox"/>				8.	0	0	0	0	38.				
Describe Emissions <input checked="" type="checkbox"/> Coning <input type="checkbox"/> Furnigating <input checked="" type="checkbox"/> None <input type="checkbox"/> Looping <input type="checkbox"/> Lofting <input type="checkbox"/> Fanning <input checked="" type="checkbox"/> Stop						9.	0	0	0	0	39.				
Emission Color Start <b>white</b> Stop <b>white</b>		Plume Type <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent				10.	0	0	0	0	40.				
Water Droplets Present <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		Water Droplet Plume <input checked="" type="checkbox"/> Attached <input type="checkbox"/> Detached <input type="checkbox"/> None				11.	0	0	0	0	41.				
Point in the Plume, at which Opacity was determined Start <b>6" above stack</b> Stop <input checked="" type="checkbox"/>						12.	0	0	0	0	42.				
Describe Background Start <b>SKY</b> Stop <input checked="" type="checkbox"/>		Ambient Temp Start <b>80°</b> Stop <input checked="" type="checkbox"/>				13.	0	0	0	0	43.				
Background Color Start <b>blue/white</b> Stop <input checked="" type="checkbox"/>		Sky Conditions Clear Scattered <input checked="" type="checkbox"/> Broken <input type="checkbox"/> Overcast				14.	0	0	0	0	44.				
Wind Speed Start <b>5-10</b> Stop <input checked="" type="checkbox"/>		Wind Direction Start <b>SE</b> Stop <input checked="" type="checkbox"/>				15.	0	0	0	0	45.				
Stack with Plume <input type="checkbox"/> Sun <input checked="" type="checkbox"/> Wind <input checked="" type="checkbox"/>		SOURCE LAYOUT SKETCH Draw North Arrow				16.	0	0	0	0	46.				
						17.	0	0	0	0	47.				
I certify the above process data is true to the best of my knowledge.						18.	0	0	0	0	48.				
SIGNATURE <i>Jim Sharpe</i>		Title <b>Operations Manager</b>				19.	0	0	0	0	49.				
		Date <b>5-3-10</b>				20.	0	0	0	0	50.				
Average Opacity for Highest 24 Consecutive Readings <b>0</b>						21.	0	0	0	0	51.				
Range of Opacity Readings Min. <b>0</b> Max. <b>0</b>						22.	0	0	0	0	52.				
Observer's Name (Print) <b>KENNETH GIVEN</b>						23.	0	0	0	0	53.				
Observer's Signature <i>Kenneth Given</i>				Date <b>5-3-10</b>		24.	0	0	0	0	54.				
Certified by E.T.A.						25.	0	0	0	0	55.				
Date <b>2/10/10</b>						26.	0	0	0	0	56.				
Comments <b>lt. steam plume</b>						27.	0	0	0	0	57.				
						28.	0	0	0	0	58.				
						29.	0	0	0	0	59.				
						30.	0	0	0	0	60.				

# AIR TESTING & CONSULTING, INC.

(813) 651-0878

Facility Name <b>STANDARD CARBON</b>		Permit Number <b>0830170-001-AC</b>	
Source <b>ACTIVATED CARBON PLANT</b>		I.D. No. <b>006</b>	
Address <b>551 NORTH U.S. HIGHWAY 41</b>			
City <b>DUNNELLON</b>		County <b>MARION</b>	Zip <b>34432</b>
Contact <b>JIM SHARPE</b>		Phone <b>917-583-0834</b>	

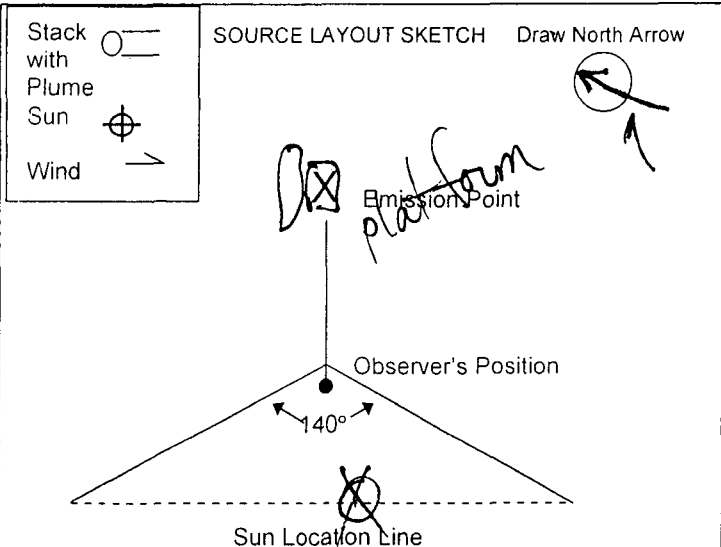
Process Equipment <b>RAYMOND MILL</b>	Max. Operating Rate <b>1.2 TPH</b>
Control Equipment <b>BAGHOUSE - MIKRO-PULSAIRE</b>	Operating Mode

Fuel Type/Rate <b>N/A</b>	Material Type/Rate <b>CARBON</b>
------------------------------	-------------------------------------

Describe Emission Point Start <b>BH fan exhaust</b>	
Height Above Ground Level Start <b>125</b> Stop <input checked="" type="checkbox"/>	Height Relative to Observer Start <b>120</b> Stop <input checked="" type="checkbox"/>
Distance from Observer Start <b>~100</b> Stop <input checked="" type="checkbox"/>	Direction from Observer Start <b>NE</b> Stop <input checked="" type="checkbox"/>

Describe Emissions <input type="checkbox"/> Coning <input type="checkbox"/> Fumigating <input checked="" type="checkbox"/> None <input type="checkbox"/> Stop <input checked="" type="checkbox"/> <input type="checkbox"/> Looping <input type="checkbox"/> Lofting <input type="checkbox"/> Fanning	
Emission Color Start <b>N/A</b> Stop <input checked="" type="checkbox"/>	Plume Type <input type="checkbox"/> Continuous <b>N/A</b> <input type="checkbox"/> Intermittent
Water Droplets Present <input type="checkbox"/> No <input type="checkbox"/> Yes	Water Droplet Plume <input type="checkbox"/> Attached <input type="checkbox"/> Detached <input type="checkbox"/> None
Point in the Plume at which Opacity was determined Start Stop	

Describe Background Start <b>Equip</b> Stop <input checked="" type="checkbox"/>	Ambient Temp Start <b>85°</b> Stop <input checked="" type="checkbox"/>
Background Color Start <b>green</b> Stop <input checked="" type="checkbox"/>	Sky Conditions Clear <input checked="" type="checkbox"/> Scattered Broken Overcast
Wind Speed Start <b>5-10</b> Stop <input checked="" type="checkbox"/>	Wind Direction Start <b>SE</b> Stop <input checked="" type="checkbox"/>



		Observation Date <b>5-3-10</b>				Start Time <b>14:06</b>		Stop Time <b>14:36</b>			
MIN	SEC	0	15	30	45	MIN	SEC	0	15	30	45
	1.		0	0	0	0	31.				
2.		0	0	0	0	32.					
3.		0	0	0	0	33.					
4.		0	0	0	0	34.					
5.		0	0	0	0	35.					
6.		0	0	0	0	36.					
7.		0	0	0	0	37.					
8.		0	0	0	0	38.					
9.		0	0	0	0	39.					
10.		0	0	0	0	40.					
11.		0	0	0	0	41.					
12.		0	0	0	0	42.					
13.		0	0	0	0	43.					
14.		0	0	0	0	44.					
15.		0	0	0	0	45.					
16.		0	0	0	0	46.					
17.		0	0	0	0	47.					
18.		0	0	0	0	48.					
19.		0	0	0	0	49.					
20.		0	0	0	0	50.					
21.		0	0	0	0	51.					
22.		0	0	0	0	52.					
23.		0	0	0	0	53.					
24.		0	0	0	0	54.					
25.		0	0	0	0	55.					
26.		0	0	0	0	56.					
27.		0	0	0	0	57.					
28.		0	0	0	0	58.					
29.		0	0	0	0	59.					
30.		0	0	0	0	60.					

Average Opacity for Highest 24 Consecutive Readings	0	Range of Opacity Readings	Min. 0	Max. 0
---	---	---------------------------	--------	--------

Observer's Name (Print) <b>KENNETH GIVEN</b>	
Observer's Signature <i>Kenneth Given</i>	Date <b>5-3-10</b>
<b>Certified by E.T.A.</b>	
Date <b>2/10/10</b>	

Comments

I certify the above process rate data is true to the best of my knowledge.

SIGNATURE *Jim Sharpe*

Title **Operations Manager** Date **5/3/10**

# AIR TESTING & CONSULTING, INC.

(813) 651-0878

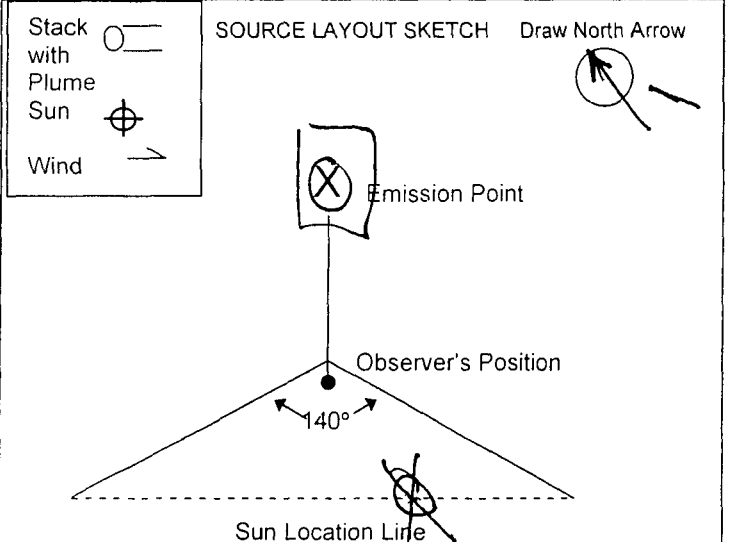
Facility Name <b>STANDARD CARBON</b>		Permit Number <b>0830170-001-AC</b>	
Source <b>ACTIVATED CARBON PLANT</b>		I.D. No. <b>00</b>	
Address <b>551 NORTH U.S. HIGHWAY 41</b>			
City <b>DUNNELLON</b>		County <b>MARION</b>	Zip <b>34432</b>
Contact <b>JIM SHARPE</b>		Phone <b>917-583-0834</b>	

Process Equipment <b>Ray Mill Silo</b>	Max. Operating Rate <b>1.2 TPH</b>
Control Equipment <b>BAGHOUSE - MIKRO- PULSAIRE</b>	Operating Mode

Fuel Type/Rate <b>N/A</b>	Material Type/Rate <b>CARBON</b>
Describe Emission Point Start <b>BT fan exhaust</b>	
Height Above Ground Level Start <b>19</b> Stop <input checked="" type="checkbox"/>	Height Relative to Observer Start <b>14</b> Stop <input checked="" type="checkbox"/>
Distance from Observer Start <b>180</b> Stop <input checked="" type="checkbox"/>	Direction from Observer Start <b>NNW</b> Stop <input checked="" type="checkbox"/>

Describe Emissions <input type="checkbox"/> Coning <input type="checkbox"/> Furnigating <input checked="" type="checkbox"/> None <input type="checkbox"/> Looping <input type="checkbox"/> Lofting <input type="checkbox"/> Fanning <input checked="" type="checkbox"/> Stop <input checked="" type="checkbox"/>	
Emission Color Start <b>N/A</b> Stop <input checked="" type="checkbox"/>	Plume Type <input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Intermittent <b>N/A</b>
Water Droplets Present <input type="checkbox"/> No <input type="checkbox"/> Yes	Water Droplet Plume <input type="checkbox"/> Attached <input type="checkbox"/> Detached <input type="checkbox"/> None
Point in the Plume at which Opacity was determined Start <b>N/A</b> Stop	

Describe Background Start <b>5/10</b> Stop <input checked="" type="checkbox"/>	Ambient Temp Start <b>85°</b> Stop <input checked="" type="checkbox"/>
Background Color Start <b>Gray</b> Stop <input checked="" type="checkbox"/>	Sky Conditions Clear Scattered <input checked="" type="checkbox"/> <b>Broken</b> Overcast
Wind Speed Start <b>3-6</b> Stop <input checked="" type="checkbox"/>	Wind Direction Start <b>SE</b> Stop <input checked="" type="checkbox"/>



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

Average Opacity for Highest 24 Consecutive Readings <b>0</b>	Range of Opacity Readings Min. <b>0</b> Max. <b>0</b>
---	--

Observer's Name (Print) <b>KENNETH GIVEN</b>	
Observer's Signature <i>Kenneth Given</i>	Date <b>5-3-10</b>
<b>Certified by E.T.A.</b>	
Date <b>2/10/10</b>	

I certify the above process rate data is true to the best of my knowledge.

SIGNATURE *Jim Sharpe*

Title **Operations Manager** Date **5-3-10**

Comments

# AIR TESTING & CONSULTING, INC.

(813) 651-0878

Facility Name <b>STANDARD CARBON</b>		Permit Number <b>0830170-001-AC</b>	
Source <b>ACTIVATED CARBON PLANT</b>		I.D. No. <b>009</b>	
Address <b>551 NORTH U.S. HIGHWAY 41</b>			
City <b>DUNNELLON</b>		County <b>MARION</b>	Zip <b>34432</b>
Contact <b>JIM SHARPE</b>		Phone <b>917-583-0834</b>	

Process Equipment <b>CARBON FROM MILL TO SILOS</b>		Max. Operating Rate <b>1.2 TPH</b>	
Control Equipment <b>BAGHOUSE PJ-4</b>		Operating Mode	

Fuel Type/Rate <b>N/A</b>	Material Type/Rate <b>CARBON</b>
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Describe Emission Point Start <b>BH fan exhaust</b>	
--	--

Height Above Ground Level Start <b>29</b> Stop <input checked="" type="checkbox"/>		Height Relative to Observer Start <b>4</b> Stop <input checked="" type="checkbox"/>	
---	--	--	--

Distance from Observer Start <b>135</b> Stop <input checked="" type="checkbox"/>		Direction from Observer Start <b>NW</b> Stop <input checked="" type="checkbox"/>	
---	--	---	--

Describe Emissions <input type="checkbox"/> Coning <input type="checkbox"/> Fumigating <input checked="" type="checkbox"/> None <input type="checkbox"/> Looping <input type="checkbox"/> Lofting <input type="checkbox"/> Fanning <input checked="" type="checkbox"/> Stop <input checked="" type="checkbox"/>	
--	--

Emission Color Start <b>N/A</b> Stop <input checked="" type="checkbox"/>		Plume Type <input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Intermittent <b>N/A</b>	
---	--	---	--

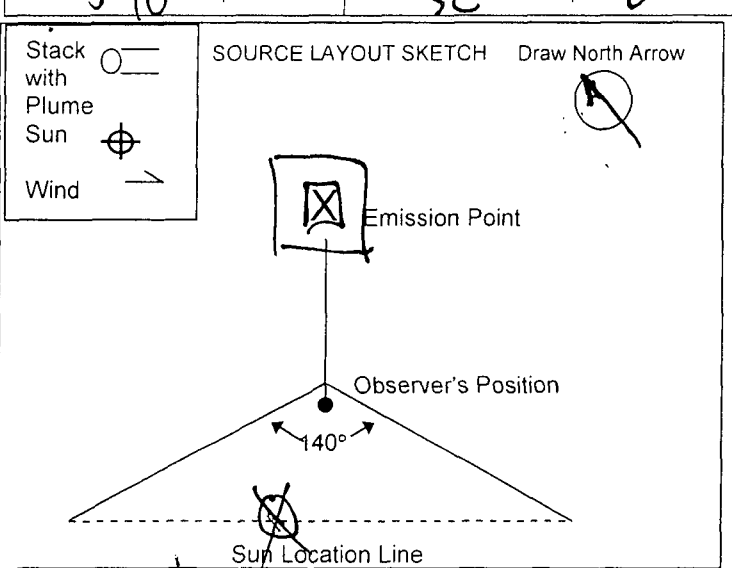
Water Droplets Present <input type="checkbox"/> No <input type="checkbox"/> Yes		Water Droplet Plume <input type="checkbox"/> Attached <input type="checkbox"/> Detached <input type="checkbox"/> None	
--	--	--	--

Point in the Plume at which Opacity was determined Start <b>N/A</b> Stop	
---	--

Describe Background Start <b>Silo</b> Stop <input checked="" type="checkbox"/>		Ambient Temp Start <b>85°</b> Stop <input checked="" type="checkbox"/>	
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Background Color Start <b>Gray</b> Stop <input checked="" type="checkbox"/>		Sky Conditions Clear <input checked="" type="checkbox"/> Scattered <input type="checkbox"/> Broken <input type="checkbox"/> Overcast	
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Wind Speed Start <b>5-10</b> Stop <input checked="" type="checkbox"/>		Wind Direction Start <b>SE</b> Stop <input checked="" type="checkbox"/>	
--	--	--	--



I certify the above process rate data is true to the best of my knowledge.

SIGNATURE **[Signature]** Title **Operations Manager** Date **5-3-10**

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

Average Opacity for Highest 24 Consecutive Readings <b>1.9%</b>	Range of Opacity Readings Min. <b>0</b> Max. <b>5</b>
--	--

Observer's Name (Print) <b>KENNETH GIVEN</b>		Date <b>5-3-10</b>
Observer's Signature <b>[Signature]</b>		Date <b>2/10/10</b>
<b>Certified by E.T.A.</b>		

Comments

# AIR TESTING & CONSULTING, INC.

(813) 651-0878

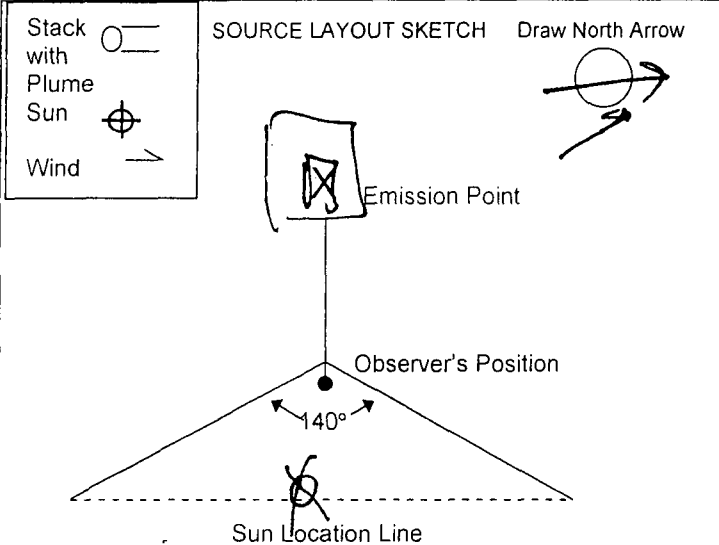
Facility Name <b>STANDARD CARBON</b>		Permit Number <b>0830170-001-AC</b>	
Source <b>ACTIVATED CARBON PLANT</b>		I.D. No. <b>010</b>	
Address <b>551 NORTH U.S. HIGHWAY 41</b>			
City <b>DUNNELLON</b>		County <b>MARION</b>	Zip <b>34432</b>
Contact <b>JIM SHARPE</b>		Phone <b>917-583-0834</b>	

Process Equipment <b>CARBON TO SILO 14</b>	Max. Operating Rate <b>3.3 TPH</b>
Control Equipment <b>BAGHOUSE PJ-6</b>	Operating Mode

Fuel Type/Rate <b>N/A</b>	Material Type/Rate <b>CARBON</b>
Describe Emission Point Start <b>BH fan exhaust</b>	
Height Above Ground Level Start <b>19</b> Stop <input checked="" type="checkbox"/>	Height Relative to Observer Start <b>14</b> Stop <input checked="" type="checkbox"/>
Distance from Observer Start <b>25</b> Stop <input checked="" type="checkbox"/>	Direction from Observer Start <b>W</b> Stop <input checked="" type="checkbox"/>

Describe Emissions <input type="checkbox"/> Coning <input type="checkbox"/> Fumigating <input checked="" type="checkbox"/> None   Stop <input checked="" type="checkbox"/> <input type="checkbox"/> Looping <input type="checkbox"/> Lofting <input type="checkbox"/> Fanning	
Emission Color Start <b>N/A</b> Stop <input checked="" type="checkbox"/>	Plume Type <input type="checkbox"/> Continuous <b>N/A</b> <input type="checkbox"/> Intermittent
Water Droplets Present <input type="checkbox"/> No <input type="checkbox"/> Yes	Water Droplet Plume <input type="checkbox"/> Attached <input type="checkbox"/> Detached <input type="checkbox"/> None
Point in the Plume at which Opacity was determined Start <b>N/A</b> Stop	

Describe Background Start <b>Silo</b> Stop <input checked="" type="checkbox"/>	Ambient Temp Start <b>75°</b> Stop <input checked="" type="checkbox"/>
Background Color Start <b>lt. gray</b> Stop <input checked="" type="checkbox"/>	Sky Conditions <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Scattered <input type="checkbox"/> Broken <input type="checkbox"/> Overcast
Wind Speed Start <b>3-6</b> Stop <input checked="" type="checkbox"/>	Wind Direction Start <b>SE</b> Stop <input checked="" type="checkbox"/>



Observation Date <b>5-3-10</b>					Start Time <b>11:10</b>					Stop Time <b>11:40</b>				
MIN \ SEC	SEC				MIN \ SEC	SEC								
	0	15	30	45		0	15	30	45					
1.	0	0	0	0	31.									
2.	0	0	0	0	32.									
3.	0	0	0	0	33.									
4.	0	0	0	0	34.									
5.	0	0	0	0	35.									
6.	0	0	0	0	36.									
7.	0	0	0	0	37.									
8.	0	0	0	0	38.									
9.	0	0	0	0	39.									
10.	0	0	0	0	40.									
11.	0	0	0	0	41.									
12.	0	0	0	0	42.									
13.	0	0	0	0	43.									
14.	0	0	0	0	44.									
15.	0	0	0	0	45.									
16.	0	0	0	0	46.									
17.	0	0	0	0	47.									
18.	0	0	0	0	48.									
19.	0	0	0	0	49.									
20.	0	0	0	0	50.									
21.	0	0	0	0	51.									
22.	0	0	0	0	52.									
23.	0	0	0	0	53.									
24.	0	0	0	0	54.									
25.	0	0	0	0	55.									
26.	0	0	0	0	56.									
27.	0	0	0	0	57.									
28.	0	0	0	0	58.									
29.	0	0	0	0	59.									
30.	0	0	0	0	60.									

Average Opacity for Highest 24 Consecutive Readings <b>0</b>	Range of Opacity Readings Min. <b>0</b> Max. <b>0</b>
---	--

Observer's Name (Print) <b>KENNETH GIVEN</b>	
Observer's Signature <i>Kenneth Given</i>	Date <b>5-3-10</b>
Certified by <b>E.T.A.</b>	
Date <b>2/10/10</b>	

I certify the above process data is true to the best of my knowledge.

SIGNATURE *[Signature]*

Title **OPERATIONS MGR**   Date **5-3-10**

Comments

# AIR TESTING & CONSULTING, INC.

(813) 651-0878

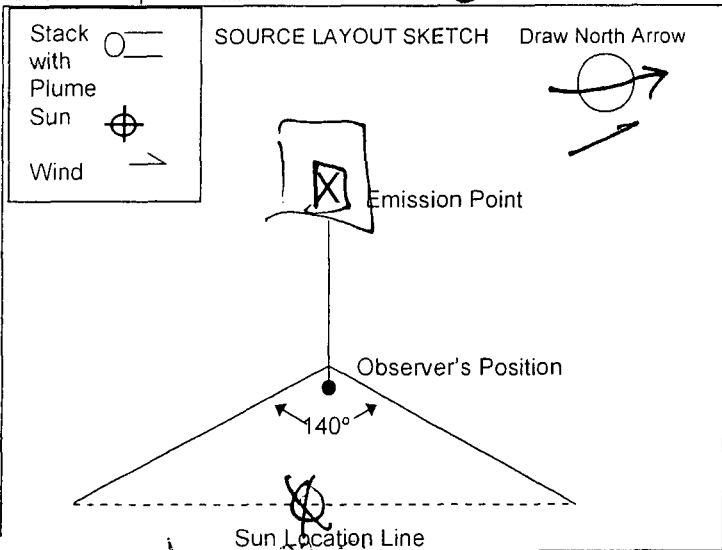
Facility Name <b>STANDARD CARBON</b>		Permit Number <b>0830170-001-AC</b>	
Source <b>ACTIVATED CARBON PLANT</b>		I.D. No. <b>011</b>	
Address <b>551 NORTH U.S. HIGHWAY 41</b>			
City <b>DUNNELLON</b>		County <b>MARION</b>	Zip <b>34432</b>
Contact <b>JIM SHARPE</b>		Phone <b>917-583-0834</b>	

Process Equipment <b>CARBON TO RAILCARS</b>	<b>TRUCK</b>	Max. Operating Rate <b>4.5</b>
Control Equipment <b>BAGHOUSE PJ-6</b>		Operating Mode

Fuel Type/Rate <b>N/A</b>		Material Type/Rate <b>CARBON</b>	
Describe Emission Point Start <b>Bit fan exhaust</b>			
Height Above Ground Level Start <b>10</b> Stop <b>^</b>		Height Relative to Observer Start <b>~4</b> Stop <b>✓</b>	
Distance from Observer Start <b>15</b> Stop <b>✓</b>		Direction from Observer Start <b>W</b> Stop <b>✓</b>	

Describe Emissions <input type="checkbox"/> Coning <input type="checkbox"/> Fumigating <input checked="" type="checkbox"/> None <input type="checkbox"/> Looping <input type="checkbox"/> Lofting <input type="checkbox"/> Fanning <input type="checkbox"/> Stop <input checked="" type="checkbox"/>	
Emission Color Start <b>N/A</b> Stop	Plume Type <input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Intermittent <b>N/A</b>
Water Droplets Present <input type="checkbox"/> No <input type="checkbox"/> Yes	Water Droplet Plume <input type="checkbox"/> Attached <input type="checkbox"/> Detached <input type="checkbox"/> None
Point in the Plume at which Opacity was determined Start <b>N/A</b> Stop	

Describe Background Start <b>Silo</b> Stop <input checked="" type="checkbox"/>	Ambient Temp Start <b>75</b> Stop <input checked="" type="checkbox"/>
Background Color Start <b>light grey</b> Stop <input checked="" type="checkbox"/>	Sky Conditions <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Scattered <input type="checkbox"/> Broken <input type="checkbox"/> Overcast
Wind Speed Start <b>3-6</b> Stop <input checked="" type="checkbox"/>	Wind Direction Start <b>SE</b> Stop <input checked="" type="checkbox"/>



MIN \ SEC	Observation Date <b>5-3-10</b>				Start Time <b>11:10</b>				Stop Time <b>11:40</b>			
	0	15	30	45	0	15	30	45	0	15	30	45
1.	0	0	0	0	31.							
2.	0	0	0	0	32.							
3.	0	0	0	0	33.							
4.	0	0	0	0	34.							
5.	0	0	0	0	35.							
6.	0	0	0	0	36.							
7.	0	0	0	0	37.							
8.	0	0	0	0	38.							
9.	0	0	0	0	39.							
10.	0	0	0	0	40.							
11.	0	0	0	0	41.							
12.	0	0	0	0	42.							
13.	0	0	0	0	43.							
14.	0	0	0	0	44.							
15.	0	0	0	0	45.							
16.	0	0	0	0	46.							
17.	0	0	0	0	47.							
18.	0	0	0	0	48.							
19.	0	0	0	0	49.							
20.	0	0	0	0	50.							
21.	0	0	0	0	51.							
22.	0	0	0	0	52.							
23.	0	0	0	0	53.							
24.	0	0	0	0	54.							
25.	0	0	0	0	55.							
26.	0	0	0	0	56.							
27.	0	0	0	0	57.							
28.	0	0	0	0	58.							
29.	0	0	0	0	59.							
30.	0	0	0	0	60.							

Average Opacity for Highest 24 Consecutive Readings <b>0</b>	Range of Opacity Readings Min. <b>0</b> Max. <b>0</b>
---	--

Observer's Name (Print) <b>KENNETH GIVEN</b>	
Observer's Signature <i>Kenneth Given</i>	Date <b>5-3-10</b>
<b>Certified by E.T.A.</b>	
Date <b>2/10/10</b>	
Comments	

I certify the above process rate data is true to the best of my knowledge.

SIGNATURE *Jim Sharpe*

Title **Operations Manager** Date **5-3-10**



# AIR TESTING & CONSULTING, INC.

(813) 651-0878

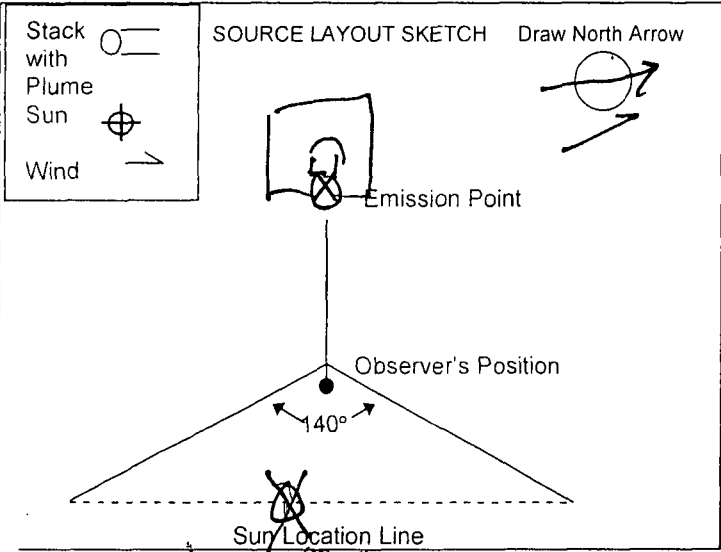
Facility Name <b>STANDARD CARBON</b>		Permit Number <b>0830170-001-AC</b>	
Source <b>ACTIVATED CARBON PLANT</b>		I.D. No. <b>012</b>	
Address <b>551 NORTH U.S. HIGHWAY 41</b>			
City <b>DUNNELLON</b>		County <b>MARION</b>	Zip <b>34432</b>
Contact <b>JIM SHARPE</b>		Phone <b>917-583-0834</b>	

Process Equipment <b>BAGGING STORAGE TOWER</b>	Max. Operating Rate <b>3.3 TPH</b>
Control Equipment <b>BAGHOUSE - FLEX-KLEEN</b>	Operating Mode

Fuel Type/Rate <b>N/A</b>	Material Type/Rate <b>CARBON</b>
Describe Emission Point Start <b>Baghouse Exhaust</b>	
Height Above Ground Level Start <b>150</b> Stop <input checked="" type="checkbox"/>	Height Relative to Observer Start <b>145</b> Stop <input checked="" type="checkbox"/>
Distance from Observer Start <b>150</b> Stop <input checked="" type="checkbox"/>	Direction from Observer Start <b>W</b> Stop <input checked="" type="checkbox"/>

Describe Emissions <input type="checkbox"/> Coning <input type="checkbox"/> Fumigating <input checked="" type="checkbox"/> None <input type="checkbox"/> Looping <input type="checkbox"/> Lofting <input type="checkbox"/> Fanning <input checked="" type="checkbox"/> Stop <input checked="" type="checkbox"/>	
Emission Color Start <b>N/A</b> Stop	Plume Type <input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Intermittent <b>N/A</b>
Water Droplets Present <input type="checkbox"/> No <input type="checkbox"/> Yes	Water Droplet Plume <input type="checkbox"/> Attached <input type="checkbox"/> Detached <input type="checkbox"/> None
Point in the Plume at which Opacity was determined Start <b>N/A</b> Stop	

Describe Background Start <b>SKY</b> Stop <input checked="" type="checkbox"/>	Ambient Temp Start <b>75°</b> Stop <input checked="" type="checkbox"/>
Background Color Start <b>blue</b> Stop <input checked="" type="checkbox"/>	Sky Conditions <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Scattered <input type="checkbox"/> Broken <input type="checkbox"/> Overcast
Wind Speed Start <b>3-6</b> Stop <input checked="" type="checkbox"/>	Wind Direction Start <b>SE</b> Stop <input checked="" type="checkbox"/>



MIN \ SEC	Observation Date <b>5-3-10</b>				Start Time <b>10:15</b>		Stop Time <b>10:45</b>			
	0	15	30	45	SEC	0	15	30	45	
1.	0	0	0	0	31.					
2.	0	0	0	0	32.					
3.	0	0	0	0	33.					
4.	0	0	0	0	34.					
5.	0	0	0	0	35.					
6.	0	0	0	0	36.					
7.	0	0	0	0	37.					
8.	0	0	0	0	38.					
9.	0	0	0	0	39.					
10.	0	0	0	0	40.					
11.	0	0	0	0	41.					
12.	0	0	0	0	42.					
13.	0	0	0	0	43.					
14.	0	0	0	0	44.					
15.	0	0	0	0	45.					
16.	0	0	0	0	46.					
17.	0	0	0	0	47.					
18.	0	0	0	0	48.					
19.	0	0	0	0	49.					
20.	0	0	0	0	50.					
21.	0	0	0	0	51.					
22.	0	0	0	0	52.					
23.	0	0	0	0	53.					
24.	0	0	0	0	54.					
25.	0	0	0	0	55.					
26.	0	0	0	0	56.					
27.	0	0	0	0	57.					
28.	0	0	0	0	58.					
29.	0	0	0	0	59.					
30.	0	0	0	0	60.					

Average Opacity for Highest 24 Consecutive Readings <b>0</b>	Range of Opacity Readings Min. <b>0</b> Max. <b>0</b>
---	--

Observer's Name (Print) <b>KENNETH GIVEN</b>	
Observer's Signature <i>Kenneth Given</i>	Date <b>5-3-10</b>
<b>Certified by E.T.A.</b>	
Date <b>2/10/10</b>	

I certify the above process rate data is true to the best of my knowledge.

SIGNATURE *Jim Sharpe*

Title **Operations Manager** Date **5-3-10**

Comments

# AIR TESTING & CONSULTING, INC.

(813) 651-0878

Facility Name <b>STANDARD CARBON</b>		Permit Number <b>0830170-001-AC</b>	
Source <b>ACTIVATED CARBON PLANT</b>		I.D. No. <b>013</b>	
Address <b>551 NORTH U.S. HIGHWAY 41</b>			
City <b>DUNNELLON</b>		County <b>MARION</b>	Zip <b>34432</b>
Contact <b>JIM SHARPE</b>		Phone <b>917-583-0834</b>	

Process Equipment <b>BAGGING OF CARBON</b>		Max. Operating Rate <b>3.3 TPH</b>	
Control Equipment <b>BAGHOUSE - BIN VENT - BV-4</b>		Operating Mode	

Fuel Type/Rate <b>N/A</b>	Material Type/Rate <b>CARBON</b>
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Describe Emission Point Start <b>fan exhaust</b>	
Height Above Ground Level Start <b>120</b> Stop <input checked="" type="checkbox"/>	Height Relative to Observer Start <b>115</b> Stop <input checked="" type="checkbox"/>
Distance from Observer Start <b>750</b> Stop <input checked="" type="checkbox"/>	Direction from Observer Start <b>W</b> Stop <input checked="" type="checkbox"/>

Describe Emissions	
<input type="checkbox"/> Coning <input type="checkbox"/> Fumigating <input checked="" type="checkbox"/> None <input type="checkbox"/> Looping <input type="checkbox"/> Lofting <input type="checkbox"/> Fanning	Stop <input checked="" type="checkbox"/>

Emission Color Start <b>N/A</b> Stop <input checked="" type="checkbox"/>	Plume Type <input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Intermittent <b>N/A</b>
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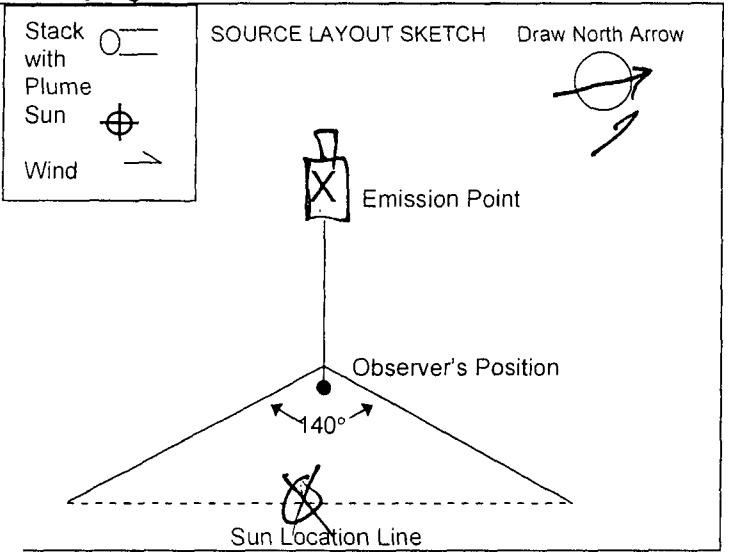
Water Droplets Present <input type="checkbox"/> No <input type="checkbox"/> Yes	Water Droplet Plume <input type="checkbox"/> Attached <input type="checkbox"/> Detached <input type="checkbox"/> None
--	--

Point in the Plume at which Opacity was determined Start <b>N/A</b> Stop
---

Describe Background Start <b>sky</b> Stop <input checked="" type="checkbox"/>	Ambient Temp Start <b>75°</b> Stop <input checked="" type="checkbox"/>
--	---

Background Color Start <b>blue</b> Stop <input checked="" type="checkbox"/>	Sky Conditions <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Scattered <input type="checkbox"/> Broken <input type="checkbox"/> Overcast
--	--

Wind Speed Start <b>3-6</b> Stop <input checked="" type="checkbox"/>	Wind Direction Start <b>SE</b> Stop <input checked="" type="checkbox"/>
---	--



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

Average Opacity for Highest 24 Consecutive Readings <b>0</b>	Range of Opacity Readings Min. <b>0</b> Max. <b>0</b>
---	--

Observer's Name (Print) <b>KENNETH GIVEN</b>	
Observer's Signature <i>Kenneth Given</i>	Date <b>5-3-10</b>
Certified by E.T.A.	
Date <b>2/10/10</b>	

Comments  
**Silo to Hopper - no bagging**

I certify the above process data is true to the best of my knowledge.

SIGNATURE *Jim Sharpe* Date **5-3-10**

Title **Operations Manager**

# AIR TESTING & CONSULTING, INC.

(813) 651-0878

Facility Name <b>STANDARD CARBON</b>		Permit Number <b>0830170-001-AC</b>		Observation Date <b>6-2-10</b>		Start Time <b>9:45</b>		Stop Time <b>10:25</b>						
Source <b>ACTIVATED CARBON PLANT</b>			I.D. No. <b>005</b>	SEC	0	15	30	45	SEC	0	15	30	45	
Address <b>551 NORTH U.S. HIGHWAY 41</b>				MIN					MIN					
City <b>DUNNELLON</b>		County <b>MARION</b>		Zip <b>34432</b>		1.	0	0	0	0				
Contact <b>JIM SHARPE</b>			Phone <b>917-583-0834</b>			2.	0	0	0	0				
Process Equipment <b>KILN 2</b>			Max. Operating Rate <b>20TPH - wet</b>			3.	0	0	0	0				
Control Equipment <b>BAGHOUSE RAYJET</b>			Operating Mode			4.	0	0	0	0				
Fuel Type/Rate <b>NATURAL GAS</b>		Material Type/Rate <b>FLY ASH - 0.45 TPH</b>		5.	0	0	0	0	0					
Describe Emission Point Start <b>Stack Exit (dry)</b>				6.	0	0	0	0	0					
Height Above Ground Level Start <b>125</b> Stop <input checked="" type="checkbox"/>		Height Relative to Observer Start <b>120</b> Stop <input checked="" type="checkbox"/>		7.	0	0	0	0	0					
Distance from Observer Start <b>100</b> Stop <input checked="" type="checkbox"/>		Direction from Observer Start <b>W</b> Stop <input checked="" type="checkbox"/>		8.	0	0	0	0	0					
Describe Emissions <input type="checkbox"/> Coning <input type="checkbox"/> Fumigating <input checked="" type="checkbox"/> None <input type="checkbox"/> Stop <input checked="" type="checkbox"/>				9.	0	0	0	0	0					
Emission Color Start <b>N/A</b> Stop <input checked="" type="checkbox"/>		Plume Type <input type="checkbox"/> Continuous <b>N/A</b> <input type="checkbox"/> Intermittent		10.	0	0	0	0	0					
Water Droplets Present <input type="checkbox"/> No <input type="checkbox"/> Yes		Water Droplet Plume <input type="checkbox"/> Attached <input type="checkbox"/> Detached <input type="checkbox"/> None		11.	0	0	0	0	0					
Point in the Plume at which Opacity was determined Start <b>N/A</b> Stop <input checked="" type="checkbox"/>				12.	0	0	0	0	0					
Describe Background Start <b>SKY</b> Stop <input checked="" type="checkbox"/>		Ambient Temp Start <b>80</b> Stop <input checked="" type="checkbox"/>		13.	0	0	0	0	0					
Background Color Start <b>Blue</b> Stop <input checked="" type="checkbox"/>		Sky Conditions <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Scattered <input type="checkbox"/> Broken <input type="checkbox"/> Overcast		14.	0	0	0	0	0					
Wind Speed Start <b>3-6</b> Stop <input checked="" type="checkbox"/>		Wind Direction Start <b>S</b> Stop <input checked="" type="checkbox"/>		15.	0	0	0	0	0					
Stack with Plume <input type="checkbox"/> Sun <input checked="" type="checkbox"/> Wind <input checked="" type="checkbox"/>				16.	0	0	0	0	0					
SOURCE LAYOUT SKETCH Draw North Arrow				17.	0	0	0	0	0					
				18.	0	0	0	0	0					
<p>Average Opacity for Highest 24 Consecutive Readings: <b>0</b></p> <p>Range of Opacity Readings: Min. <b>0</b> Max. <b>0</b></p>				19.	0	0	0	0	0					
Observer's Name (Print) <b>KENNETH GIVEN</b>				20.	0	0	0	0	0					
Observer's Signature <i>Kenneth Given</i>				21.	0	0	0	0	0					
Certified by <b>E.T.A.</b>				22.	0	0	0	0	0					
Date <b>6-2-10</b>				23.	0	0	0	0	0					
Date <b>2/10/10</b>				24.	0	0	0	0	0					
Comments				25.	0	0	0	0	0					
I certify the above process data is true to the best of my knowledge.				26.	0	0	0	0	0					
SIGNATURE <i>Jim Sharpe</i>				27.	0	0	0	0	0					
Title <b>operations manager</b>				28.	0	0	0	0	0					
Date <b>6-2-10</b>				29.	0	0	0	0	0					
				30.	0	0	0	0	0					

# AIR TESTING & CONSULTING, INC.

(813) 651-0878

Facility Name <b>STANDARD CARBON</b>		Permit Number <b>0830170-001-AC</b>	
Source <b>ACTIVATED CARBON PLANT</b>		I.D. No. <b>013</b>	
Address <b>551 NORTH U.S. HIGHWAY 41</b>			
City <b>DUNNELLON</b>		County <b>MARION</b>	Zip <b>34432</b>
Contact <b>JIM SHARPE</b>		Phone <b>917-583-0834</b>	

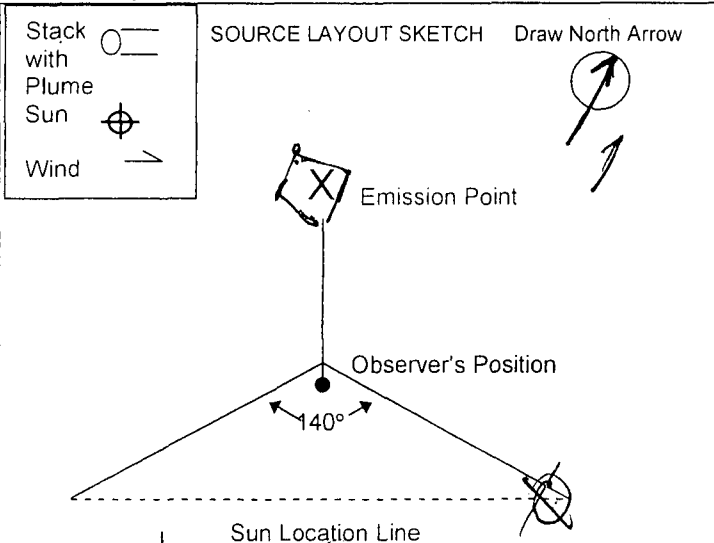
Process Equipment <b>BAGGING OF CARBON</b>		Max. Operating Rate <b>1 TPH</b>	
Control Equipment <b>BAGHOUSE - FLEX-KLEEN</b>		Operating Mode	

Fuel Type/Rate <b>N/A</b>		Material Type/Rate <b>CARBON - 1 TPH</b>	
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Describe Emission Point Start <b>fan exit</b>			
Height Above Ground Level Start <b>15</b> Stop <input checked="" type="checkbox"/>		Height Relative to Observer Start <b>10</b> Stop <input checked="" type="checkbox"/>	
Distance from Observer Start <b>200</b> Stop <input checked="" type="checkbox"/>		Direction from Observer Start <b>NW</b> Stop <input checked="" type="checkbox"/>	

Describe Emissions <input type="checkbox"/> Coning <input type="checkbox"/> Fumigating <input checked="" type="checkbox"/> None <input type="checkbox"/> Stop <input checked="" type="checkbox"/> <input type="checkbox"/> Looping <input type="checkbox"/> Lofting <input type="checkbox"/> Fanning			
Emission Color Start <b>N/A</b> Stop		Plume Type <input type="checkbox"/> Continuous <input checked="" type="checkbox"/> Intermittent <b>N/A</b>	
Water Droplets Present <input type="checkbox"/> No <input type="checkbox"/> Yes		Water Droplet Plume <input type="checkbox"/> Attached <input type="checkbox"/> Detached <input type="checkbox"/> None	
Point in the Plume, at which Opacity was determined Start <b>N/A</b> Stop			

Describe Background Start <b>sky</b> Stop <input checked="" type="checkbox"/>		Ambient Temp Start <b>80°</b> Stop <input checked="" type="checkbox"/>	
Background Color Start <b>blue</b> Stop <input checked="" type="checkbox"/>		Sky Conditions <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Scattered <input type="checkbox"/> Broken <input type="checkbox"/> Overcast	
Wind Speed Start <b>3-6</b> Stop <input checked="" type="checkbox"/>		Wind Direction Start <b>S</b> Stop <input checked="" type="checkbox"/>	



Observation Date <b>6-2-10</b>					Start Time <b>10:00</b>					Stop Time <b>10:30</b>				
MIN	SEC				MIN	SEC				MIN	SEC			
	0	15	30	45		0	15	30	45		0	15	30	45
1.	0	0	0	0	31.									
2.	0	0	0	0	32.									
3.	0	0	0	0	33.									
4.	0	0	0	0	34.									
5.	0	0	0	0	35.									
6.	0	0	0	0	36.									
7.	0	0	0	0	37.									
8.	0	0	0	0	38.									
9.	0	0	0	0	39.									
10.	0	0	0	0	40.									
11.	0	0	0	0	41.									
12.	0	0	0	0	42.									
13.	0	0	0	0	43.									
14.	0	0	0	0	44.									
15.	0	0	0	0	45.									
16.	0	0	0	0	46.									
17.	0	0	0	0	47.									
18.	0	0	0	0	48.									
19.	0	0	0	0	49.									
20.	0	0	0	0	50.									
21.	0	0	0	0	51.									
22.	0	0	0	0	52.									
23.	0	0	0	0	53.									
24.	0	0	0	0	54.									
25.	0	0	0	0	55.									
26.	0	0	0	0	56.									
27.	0	0	0	0	57.									
28.	0	0	0	0	58.									
29.	0	0	0	0	59.									
30.	0	0	0	0	60.									

Average Opacity for Highest 24 Consecutive Readings <b>0</b>		Range of Opacity Readings Min. <b>0</b> Max. <b>0</b>	
---	--	--	--

Observer's Name (Print) <b>KENNETH GIVEN</b>		Date <b>6-2-10</b>	
Observer's Signature <i>Kenneth Given</i>		Date <b>2/10/10</b>	
<b>Certified by E.T.A.</b>			

I certify the above process rate data is true to the best of my knowledge.

SIGNATURE *Jim Sharpe*

Title **Operations Manager** Date **6-2-10**

Comments

# AIR TESTING & CONSULTING

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

August 11, 2010

David Zell  
Department of Environmental Protection  
13051 North Telecom Parkway  
Temple Terrace, FL 33637-0926

Dept. Of Environmental Protection  
AUG 19 2010  
Southwest District

Re: Standard Carbon, LLC  
DEP Project No. 0830170-002-AO

Dear David:

Enclosed is the response to the RAI letter of July 15, 2010.

1. Facility Plot Plan - The Facility Plot Plan (Figure 1: STANDARD PURIFICATION General Location Plan), included in the application as attachment A, is difficult to understand or review without more detailed identifications and a key as to what the identification numbers shown represent. If possible\*, provide a key as to what equipment operation each identification number represents. Also, if possible, show the associated Emission Unit (EU) Nos., and all baghouse emission control devices with ID Nos., as established in Construction Permit 0830170-001-AC. (\* Note - If the above is not possible without a lot of work, please state so and we will disregard this location plan for the purposes of reviewing the application.)

*See the attached Plot Plan.*

2. High Moisture Content Fly Ash - The operation permit application includes a description of the fly ash unloading procedures currently being used due to handling of fly ash with a higher than anticipated moisture content. These procedures were not included in

Construction Permit 0830170-001-AC and bypass certain equipment and operations that were included in the construction permit (see Item 3. below). Is it expected that lower moisture content fly ash will be processed by the facility in the future? Will the moisture content of the fly ash vary over time such that different unloading and handling procedures will be used, and if so how frequently is it expected that the moisture characteristics of the fly ash will significantly change?

*Yes, it is expected that lower moisture content fly ash will be processed by the facility in the future.*

*Yes, the moisture content of the fly ash will vary over time such that different unloading and handling procedures will be used. This will depend on flyash availability and who supplies it.*

*The frequency of flyash moisture content change is unknown at this time.*

3. EU ID Nos. 001, 002, 003 and 004 (Fly ash truck unloading and transfer to storage silos, and kiln hoppers) - Does the actual fly ash unloading and transfer equipment included in these emission units exist such that fly ash could be unloaded and transferred as described in Construction Permit 0830170-001-AC if the moisture content was lower? Information obtained during the Department inspection of May 3, 2010, indicated that the unloading and transfer equipment had not been constructed. Are the fly ash storage silos completed such that they can be put into service if lower moisture content fly ash is used? Visible emissions testing has not been conducted on the baghouse particulate matter emission control devices for these emission units (Baghouses PJ-T, PJ-1 and PJ-2). Are these baghouse in place and operational? The operation permit can only include equipment in place and capable of operation as permitted without further modification. (See Operation Permit Note on Page 5 of 6.)

*The fly ash unloading and transfer equipment included in these emission units exist such that fly ash could be unloaded and transferred as described*

*in Construction Permit 0830170-001-AC if the moisture content were lower.*

*The fly ash storage silos are completed such that they can be put into service if lower moisture content fly ash is used.*

*Baghouses PJ-T, PJ-1 and PJ-2 are in place and operational. VE testing will be scheduled whenever these units are placed into operation.*

4. Fly Ash Storage Tank 1 - Fly Ash Storage Tank 1 was not included in Construction Permit 0830170-001-AC. Please include more details on this tank, its use and how it differs from the fly ash storage silos (Silo Nos. 3, 9, 11), along with how emissions from loading of it are controlled (by baghouse PJ-1 ?).

*Tank 1 needs to be refurbished prior to use as a fly ash storage tank. It will vent to baghouse PJ-1. It will be addressed on a future construction permit application.*

5. Fly Ash Storage Silo No. 5 - The application indicates that Fly Ash Storage Silo No. 5 is not in use and will have to be replaced prior to any use. However, the Fly Ash Receiving and Storage process flow diagram included as an attachment to the application does show F.A Silo No. 5 as being part of the system. If this silo is not currently operational, Fly Ash Silo No. 5 and its use will not be included in the operation permit. (See Operation Permit Note on Page 5 of 6.)

*Fly Ash Storage Silo No. 5 will be addressed in a new construction permit application. Attached flow diagram does not include Silo No. 5.*

6. Permitted Kiln Fuels - The construction permit application and Construction Permit 0830170-001-AC included propane as an alternate backup fuel for the kilns. The operation permit application, and the Process Description included with the application, no longer include propane as a backup fuel. Please confirm that you no longer want propane included in the operation permit as a backup fuel for the kiln.

AUG 19 2010

*The facility no longer wants propane included in the operation permit as a backup fuel for the kiln.*

7. Expected Kiln Process Input and Production Rates - Please confirm that the maximum expected fly ash process input rate to each of the kilns is expected to be 4.0 tons/hour (as specified in the construction and operation permit applications, and Construction permit 0830170-001-AC, but deleted from the Process Description included as an attachment to the operation permit application); and that the total estimated carbon production rate from each kiln is expected to be 1.0 tons/hour (as specified in the Process Description included as an attachment to the operation permit application).

*The wet fly ash is about 75% moisture. It takes about 4 tons of wet fly ash to produce 1 ton activated carbon. When fly ash at approximately 25% moisture is processed the fly ash feed should be about 1.3 tons/hr per kiln.*

8. Electric Boiler for Steam Injection Into Kilns - The Process Description included as part of the operation permit application stated that the proposed electric boiler which was to provide steam for injection into the kilns (and which was included in the process description in Construction Permit 0830170-001-AC) was not installed ("future addition if needed"). Therefore it will not be referenced in the process description in the operation permit. (See Operation Permit Note on Page 5 of 6.) Is steam currently being injected into the kiln, and if so, how is the steam produced?

*Steam is not being injected into the kilns. Because of the high moisture content of the flyash steam is not needed. The need for steam boilers will be addressed when dryer fly ash is received.*

9. Kiln Nos. 1 and 2 Baghouse PM Emission Control Devices - Construction Permit 0830170-001-AC (and the construction permit application upon which it is based) showed existing Ray Jet Model FF259 baghouse particulate matter (PM) emission control devices (with design air flow rates of 2,900 dscfm) for both Kiln Nos. 1 and 2,



while the operation permit application and Attachment D. Control Equipment (under "Upgraded Baghouses") shows SDC Model 48-SL-108 baghouses (with design air flow rates of 2,500 dscfm) for each kiln. Does this mean that the existing Ray Jet baghouses were replaced by (upgraded to) new SDC baghouses? It should also be noted that now that the baghouse emission control device for each kiln has its own exhaust stack, they will each be considered as separate emission units and given their own emission unit (EU) numbers (Kiln No. 1 will be EU 005 and Kiln No. 2 will be given a new EU number).

*The existing Ray Jet baghouses were replaced by (upgraded to) new SDC Model 48-SL-108 baghouses (with design air flow rates of 2,500 dscfm).*

10. Raymond Mill (EU 006) Baghouse Emission Control Device - Construction Permit 0830170-001-AC (and the construction permit application upon which it is based) and the Process Description included as an attachment to the operation permit application, show an existing Mikro-Pulsaire Type 65810 baghouse with a design air flow rate of 3,400 dscfm controlling emissions from the Raymond Mill 9 (EU 006), while the operation permit application itself and attachment D. Control Equipment (under "Upgraded Baghouses") shows it as a Mikro-Pulsaire Model 64S820 with a design air flow rate of 3,600 dscfm. Please clarify the conflicting references for the Raymond Mill baghouse and state whether this means that the existing baghouse was replaced by (upgraded to) a new baghouse?

*Mikro-Pulsaire Model 64S820 with a design air flow rate of 3,600 dscfm. It was upgraded.*

11. Raymond Mill Grinding Operation Process Flow Diagram - The Raymond Mill Grinding Operation process flow diagram attached to the operation permit application shows, on the left side just below the center, a box that says "FROM KILNS #1& #2 SURGE HOPPER". This box does not appear to be connected to anything else in the process flow. Please explain what this box represents, how it fits into

the process flow and what emissions control device, if any, controls emissions from loading/unloading of it.

*The Kiln (1 & 2) enclosed surge hopper receives unmilled product from the kiln cooling screws. The product is then conveyed pneumatically from an airtight rotary valve from the surge hopper to the RM receiving hopper by BL-2. Emissions are controlled by PJ-3. The surge hopper serves as an overflow reservoir should the transfer of material to the RM receiving hopper be disrupted, as the material must continue to be removed from the kilns after the flow of feed is stopped. The surge hopper can hold about 1 ton of unmilled product, enough to clear the kilns if needed.*

12. Carbon Storage Silos - Construction Permit 0830170-001-AC included transfer of carbon from the Raymond Mill Outlet Hopper to Carbon Silos 2, 4, 6, 8, and 14. Information obtained during the Department inspection of May 3, 2010 indicated that carbon was actually transferred from the Raymond Mill Outlet Hopper to Carbon Silos 8, 10, 12 and 14, and not to Carbon Silos 2, 4, and 6, which are not being used. The Process Description attached to the operation permit application states (on Pages 2 and 4 of 4) that carbon is transferred to Carbon Silos 2, 4, 6, 8, 10 and 12, with carbon then transferred to Carbon Silos 14 and 16 from those carbon silos). (Note that Carbon Silos 10, 12 and 16 are not included in Construction Permit 0830170-001-AC). Attachment D. Control Equipment of the operation permit application shows a baghouse emission control device (baghouse PJ-4) controlling Carbon Silos 8, 10 and 12 (there is no mention of Carbon Silos 2, 4 and 6).

- a. Please clarify which carbon silos are actually being used (and therefore should be included in the operation permit), and whether carbon is transferred to Carbon Silo 14 from the Raymond Mill Outlet Hopper or from the other carbon silos (or from both).
- b. How are emissions from the loading of Carbon Silo 16 controlled? Are they controlled by baghouse emission control device PJ-6 which controls Carbon Silo 14? (Carbon Silo 16 is not shown at all in Attachment D. Control Equipment listings.)

- a. *Carbon Silos 2, 4 and 6 need to be refurbished before they can be used. Carbon is transferred to Carbon Silos Nos. 8, 10 and 12 from the Raymond Mill Outlet Hopper. Carbon for shipping is transferred from Carbon Silos Nos. 8, 10 and 12 to the Railcar/Truck storage silos 14 and 16. At one time it was considered that 16 would not be needed but it has been decided that 16 should be kept and used.*
- b. *Silo No. 16 will also vent through PJ-6.*

13. Alternative Carbon Storage Silo Nos. 9 and 11 - These carbon storage silos, referenced as "may be used at a future time" are not a part of Construction Permit 0830170-001-AC. Since they have not been included in a construction permit (along with associated emission control equipment) and are not operational, they will not be included in the operation permit. (See Operation Permit Note on Page 5 of 6.)

*Silo Nos. 9 and 11 were intended to be used for fly ash storage. At this time they are not needed for fly ash storage but could be used for carbon storage. They are piped to receive carbon or fly ash and they vent through PJ-1. Their use will be determined based on the moisture content of the fly ash received.*

14. Carbon Product Bagging Machine(s) - Construction Permit 0830170-001-AC (and the construction permit application upon which it is based) referenced two manual carbon product bagging operation machines while the operation permit application and Process Description and Bagging System process flow diagram which are attached to the operation permit application only show one bagging unit. Please confirm that the operation permit should only include one bagging unit.

*The operation permit should only include one bagging unit. If business warrants it a construction permit application will be submitted.*

15. Bin Vent Filters - Are there still bin vent filters on the fly ash storage silos (referenced as bin vent filter BV-1 on Construction Permit 0830170-001-AC), the kiln fly ash silos (referenced as BV-2), Carbon Storage Silos 2, 4, 6 and 8 (referenced as BV-3), the Bagging

Hopper (referenced as BV-4), and Carbon Silo 14 (referenced as BV-5)? They do not seem to be referenced in the application, nor the Process Description attached to the operation permit application, nor shown on the process flow diagrams attached to the application. (Note - The bin vent filters may no longer be needed due to the change in design of how the material is transferred to and from the silos/equipment).

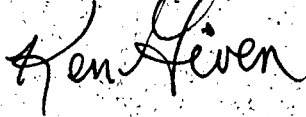
*There are no bin vents in use.*

16. Construction Permit Application and Fee Required - A request to modify the construction permit and associated processing fee is required for new baghouses (baghouse PJ-3 and the Bagging Vent Silo Mahle baghouse), additional process equipment (tank/silos), and revisions to the original construction permit process descriptions and requirements. In order to apply for the required construction permit, please submit revised pages 2, 3, and 5 of the operation permit application, indicating that the application is also requesting a construction permit for the two additional baghouses, and other permit modification to the initial construction permit, along with an application processing fee of \$250.00.

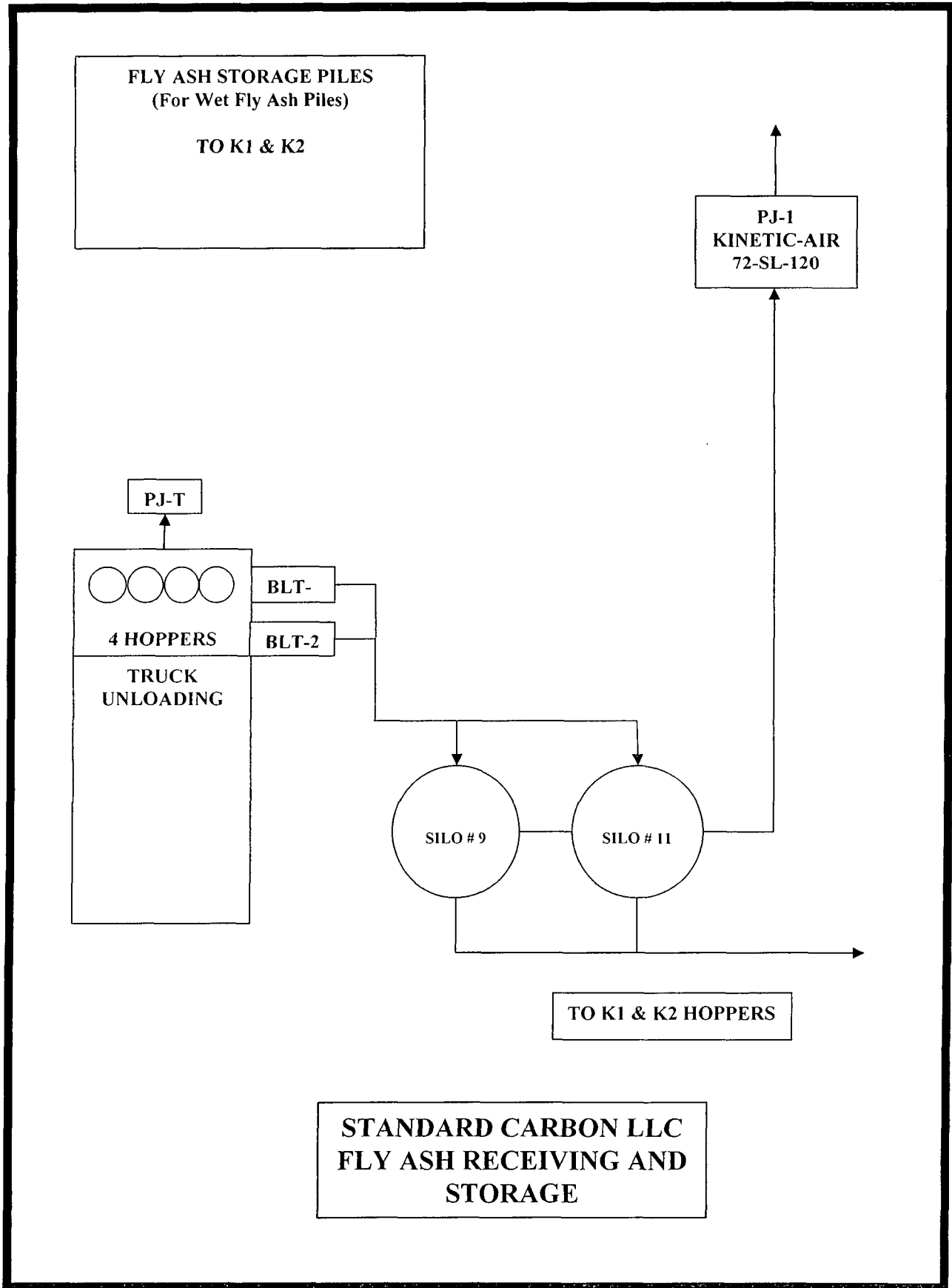
*See attached pages, along with a check for the processing fee. Thank you.*

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

Sincerely,  
Kenneth E. Given, P.E.



cc: James Sharpe, Standard Carbon LLC



**FLY ASH STORAGE PILES**  
(For Wet Fly Ash Piles)  
**TO K1 & K2**

**PJ-1**  
**KINETIC-AIR**  
**72-SL-120**

**PJ-T**

**4 HOPPERS**  
**TRUCK UNLOADING**

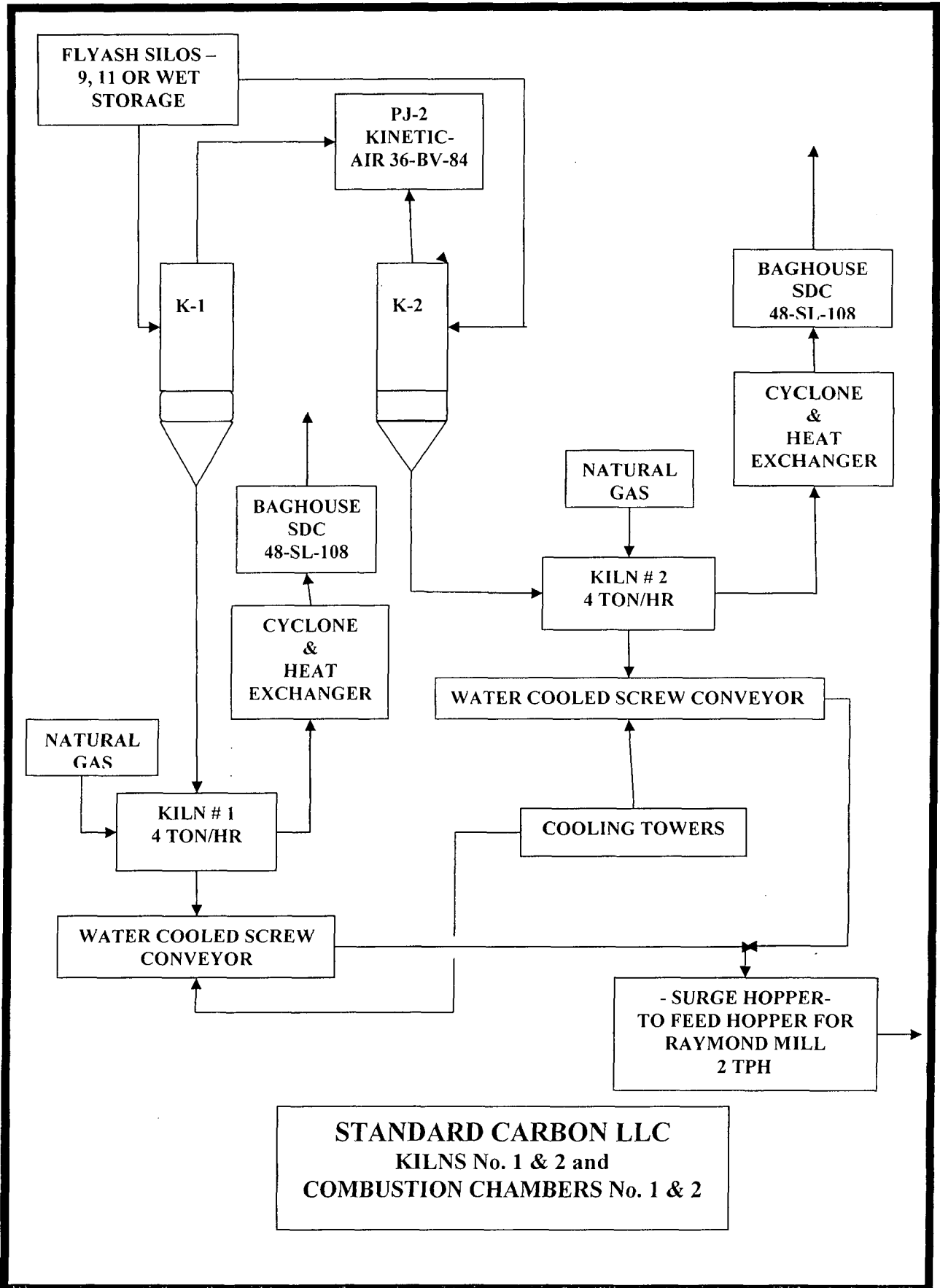
**BLT-**  
**BLT-2**

**SILO #9**

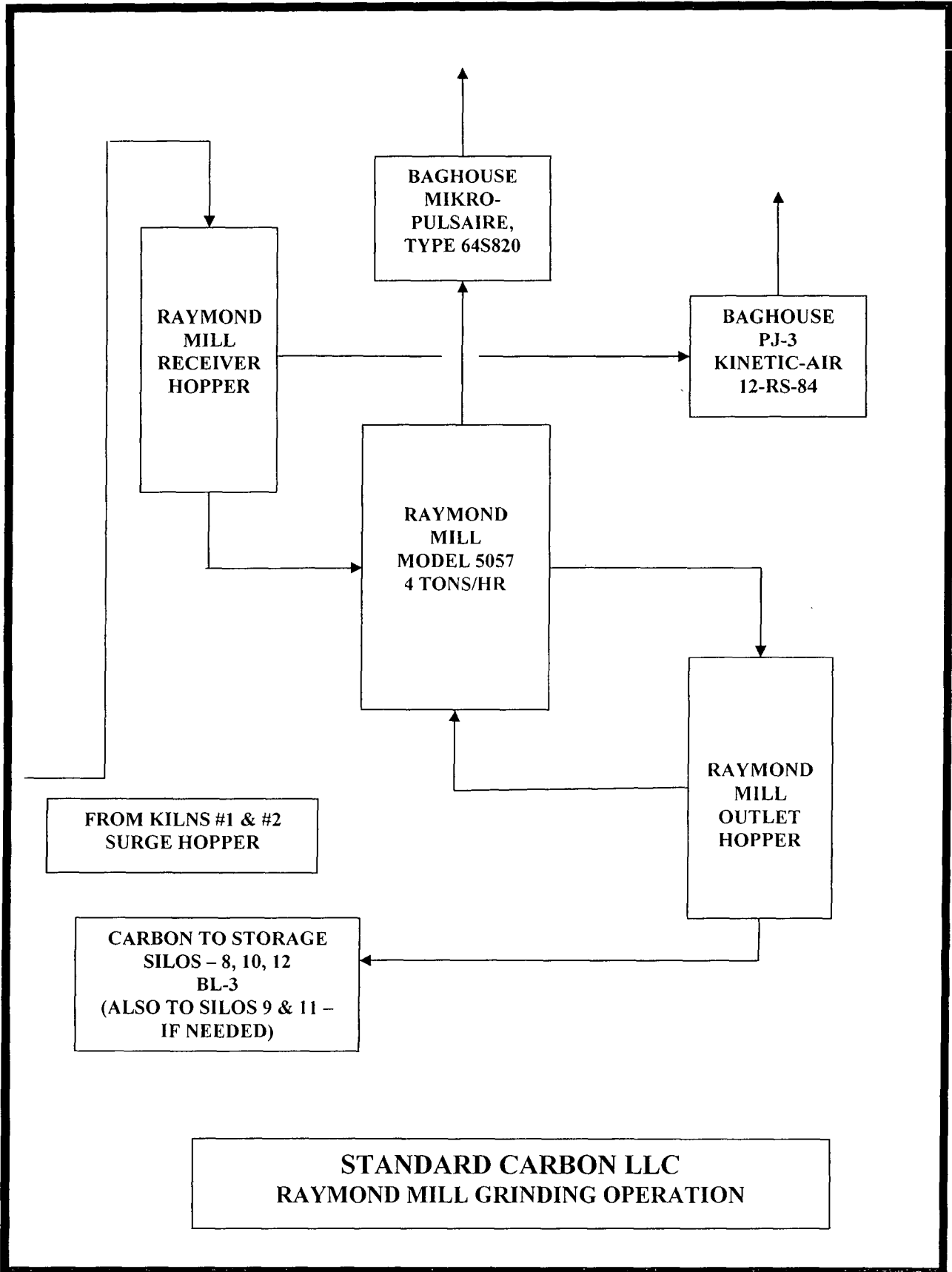
**SILO #11**

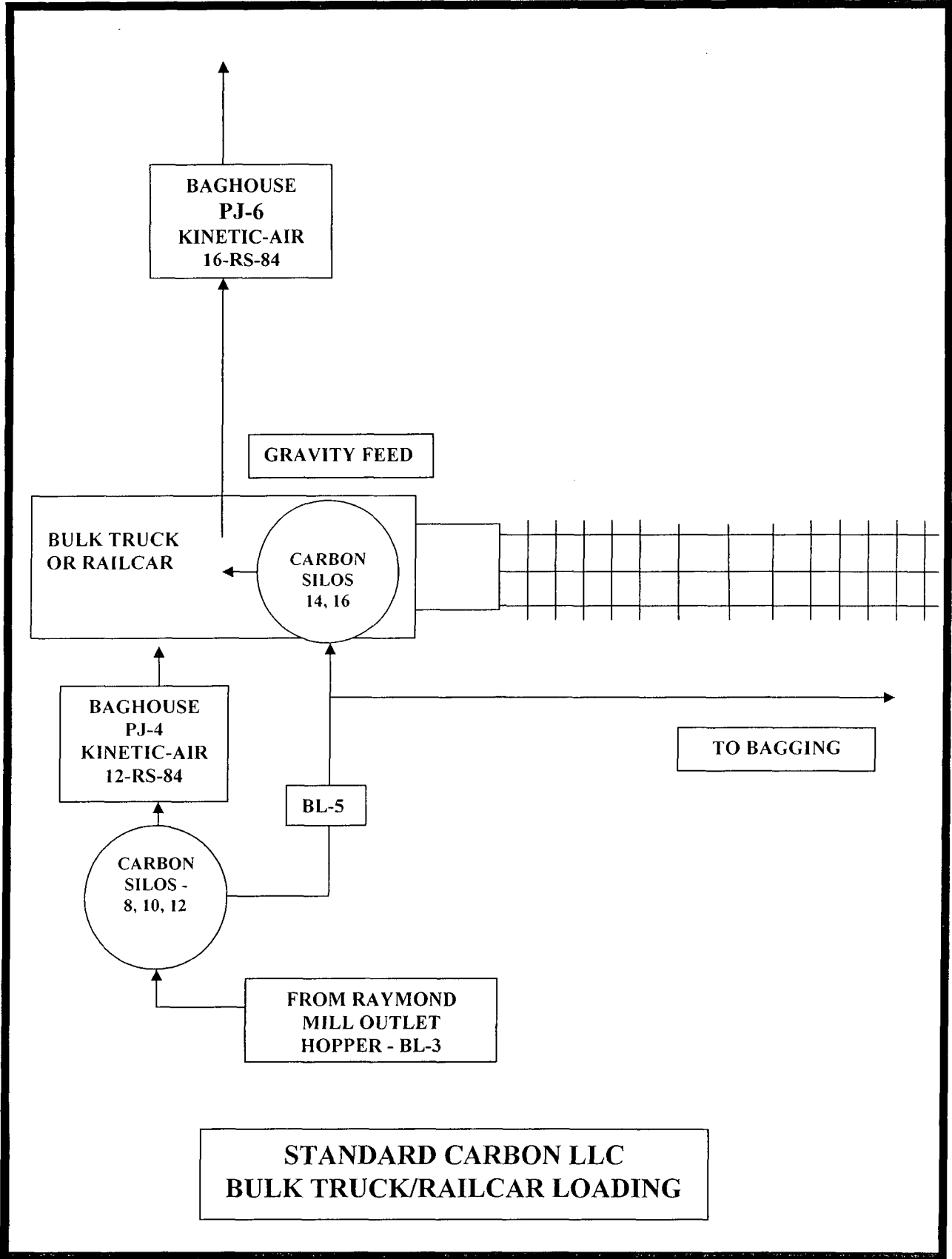
**TO K1 & K2 HOPPERS**

**STANDARD CARBON LLC**  
**FLY ASH RECEIVING AND STORAGE**

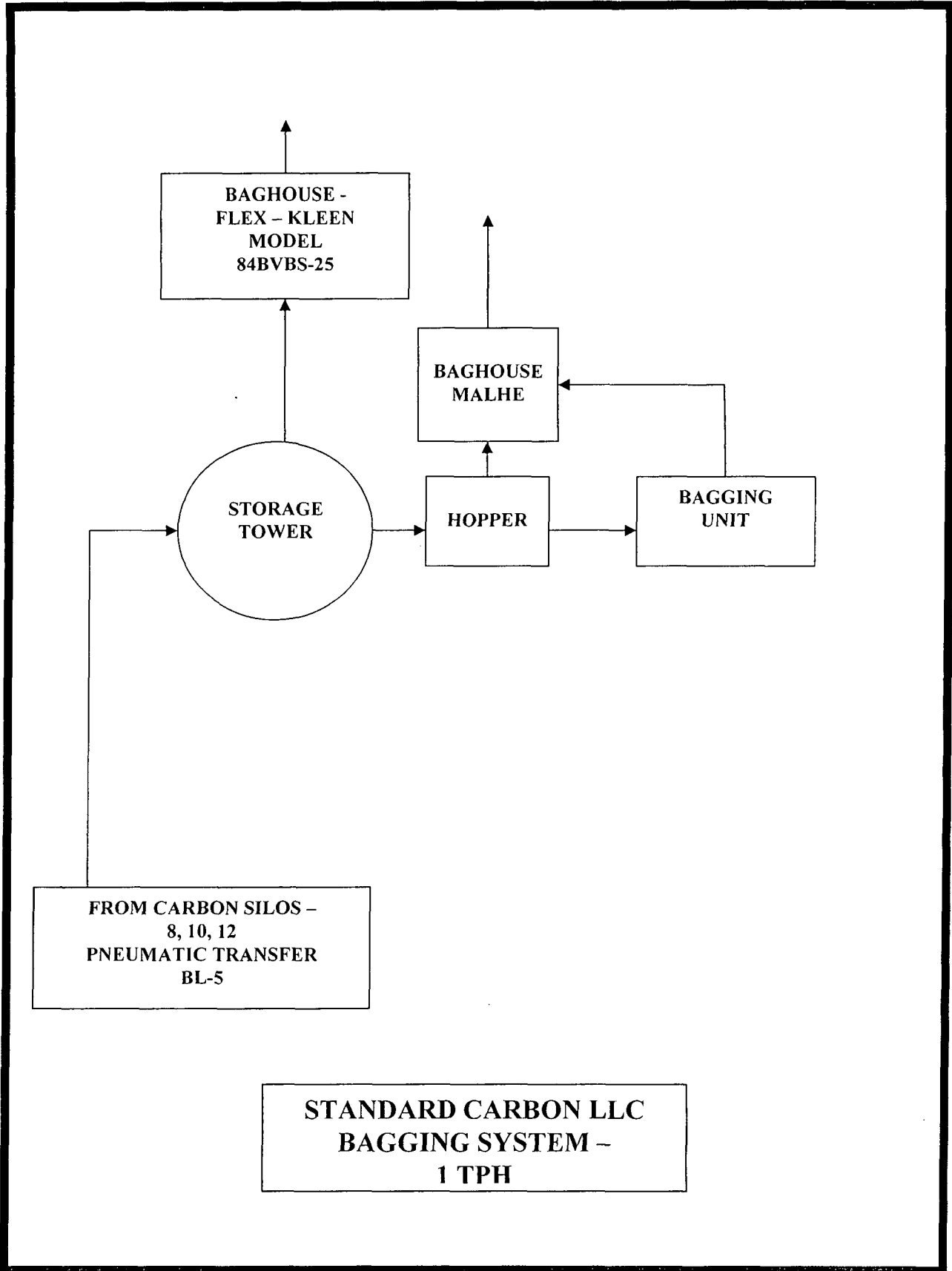


**STANDARD CARBON LLC**  
 KILNS No. 1 & 2 and  
 COMBUSTION CHAMBERS No. 1 & 2









FROM CARBON SILOS -  
8, 10, 12  
PNEUMATIC TRANSFER  
BL-5

STANDARD CARBON LLC  
BAGGING SYSTEM -  
1 TPH

**Scope of Application**

<b>Emissions Unit ID</b>	<b>Description of Emissions Unit</b>	<b>Permit Type</b>	<b>Processing Fee</b>
001	Fly Ash Truck Receiving/Unloading with baghouse PJ-T	AO2B	
002	Fly Ash Storage Silos 9 & 11 with baghouse PJ-1	AO2B	
003 & 004	Kiln Feed Hoppers K1 & K2 with baghouse PJ-2	AO2B	
005	Kilns No. 1 & 2 w/Combustion Chambers No. 1 & 2 and with baghouses SDC 48-SL-108 (2)	AO2B	
006	Raymond Mill with baghouse Mikro-Pulsaire 64S820	AO2B	
009	Carbon Storage Silos 8, 10, 12 with Baghouse PJ-4	AO2B	
010	Carbon Storage Silos 14 & 16 with baghouse PJ-6	AC1F	
011	Bulk Truck/Railcar Carbon Loading with baghouse PJ-6	AO2B	
012	Bagging Storage Tower with baghouse – Flex-Kleen Model 84BVBS-25.	AO2B	
013	Bagging Hopper and Bagging machine with Baghouse Mahle Model 25-FK	AC1F	
	Kiln Surge Hopper and RM Receiver Hopper with Baghouse PJ-3	AC1F	
002	Storage Silos 9 & 11 with baghouse PJ-1 – (Alternate use – for Carbon Storage)	AC1F	

**Application Processing Fee**

Check one:  Attached - Amount: \$ 250.00       Not Applicable

**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: 0830170-012-AC

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

Current construction permit number: \_\_\_\_\_

Operation permit number to be revised: \_\_\_\_\_

- Initial non-Title V air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s):

\_\_\_\_\_

- Non-Title V air operation permit revision for a synthetic non-Title V source. Give reason for revision; e.g., to address one or more newly constructed or modified emissions units.

Operation permit number to be revised: \_\_\_\_\_

Reason for revision: \_\_\_\_\_

**Air Construction Permit Application**

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

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

**Construction/Modification Information**

1. Description of Proposed Project or Alterations:

Standard Carbon LLC has received fly ash at 70% moisture and cannot handle it in the new truck unloading unit. It has to be stored on the pavement. The wet fly ash is put into portable bins and taken to the kilns by forklift. The kiln hoppers have their lids removed and the wet fly ash is dumped into the hopper and gravity fed into the kiln. The piles of fly ash are covered with tarps and there is a water hose handy in case there is any dusting.

The Raymond Mill has a surge hopper and feed hopper that vent to PJ-3. It also has an outlet hopper that vents through the RM baghouse Mikro-Pulsaire 64S820.

The bagging hopper and bagging machine vent to a baghouse. It was labeled as a bin vent in the permit but it has a fan and will have to be identified as a baghouse (Mahle 25-FK).

The Ball Mill and the Whizzer are not to be included in the process.

Carbon Silo No. 16 will not be removed as originally planned but will be used for loading Trucks/Trains.


2. Projected or Actual Date of Commencement of Construction:

3. Projected Date of Completion of Construction:

**Application Comment**

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**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 dba Standard Purification 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  8/15/10 _____ Date

\* 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*

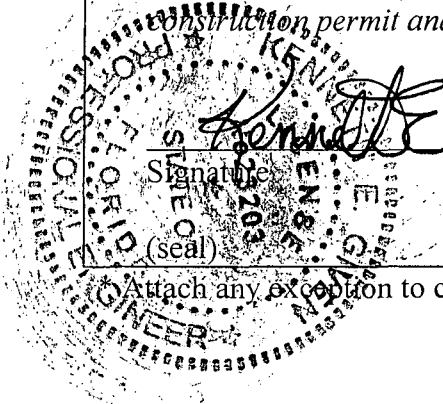
*(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions 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 [ X ], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.*

*Kenneth E. Leven*  
\_\_\_\_\_  
Signature

8-11-2010  
Date



Attach any exception to certification statement.

## Zell, David

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**From:** ken@airtest.fdn.com  
**Sent:** Thursday, September 09, 2010 9:09 AM  
**To:** Zell, David  
**Cc:** jsharpe@standardpurification.com  
**Subject:** Re: Standard Carbon - Response to Department Request for Additional Information (RAI)  
(Projects 0830170-002-AO & 0830170-003-AC)  
**Attachments:** IMG.pdf; IMG\_0001.pdf; IMG\_0002.pdf

David,

If the attachments don't make it, I'll fax them to you. You are correct about silos 2, 4 & 6.

Ken Given

Quoting "Zell, David" <[David.Zell@dep.state.fl.us](mailto:David.Zell@dep.state.fl.us)>:

> Ken,

>

> On the first page of your August 11, 2010 response to the RAI for  
> Standard Carbon, in the response to Item 1. (Facility Plot Plan) you  
> stated "See the attached Plot Plan." While there were 4 flow  
> diagrams for various parts of the process attached, there was no  
> "Plot Plan" showing the overall facility layout. Was there a  
> facility plot plan attachment missing, or was your reference to a  
> plot plan referring to the 4 flow diagrams? If there is a facility  
> plot plan, could you please scan it and send it to me as an  
> attachment to an email.

>

> In your response to Item 12.a., you state that "Carbon Silos 2, 4,  
> and 6 need to be refurbished before they can be used." You did not  
> specifically state, as you did in references to other equipment that  
> needed refurbishment, that these silos would be addressed on a  
> future construction permit application, but I am assuming that that  
> is the case. As a result of the fact that they are not currently in  
> use (or useable), Silos 2, 4 and 6 will not be included in the  
> initial operation permit. Please let me know if this is correct.

>

> Thanks,

>

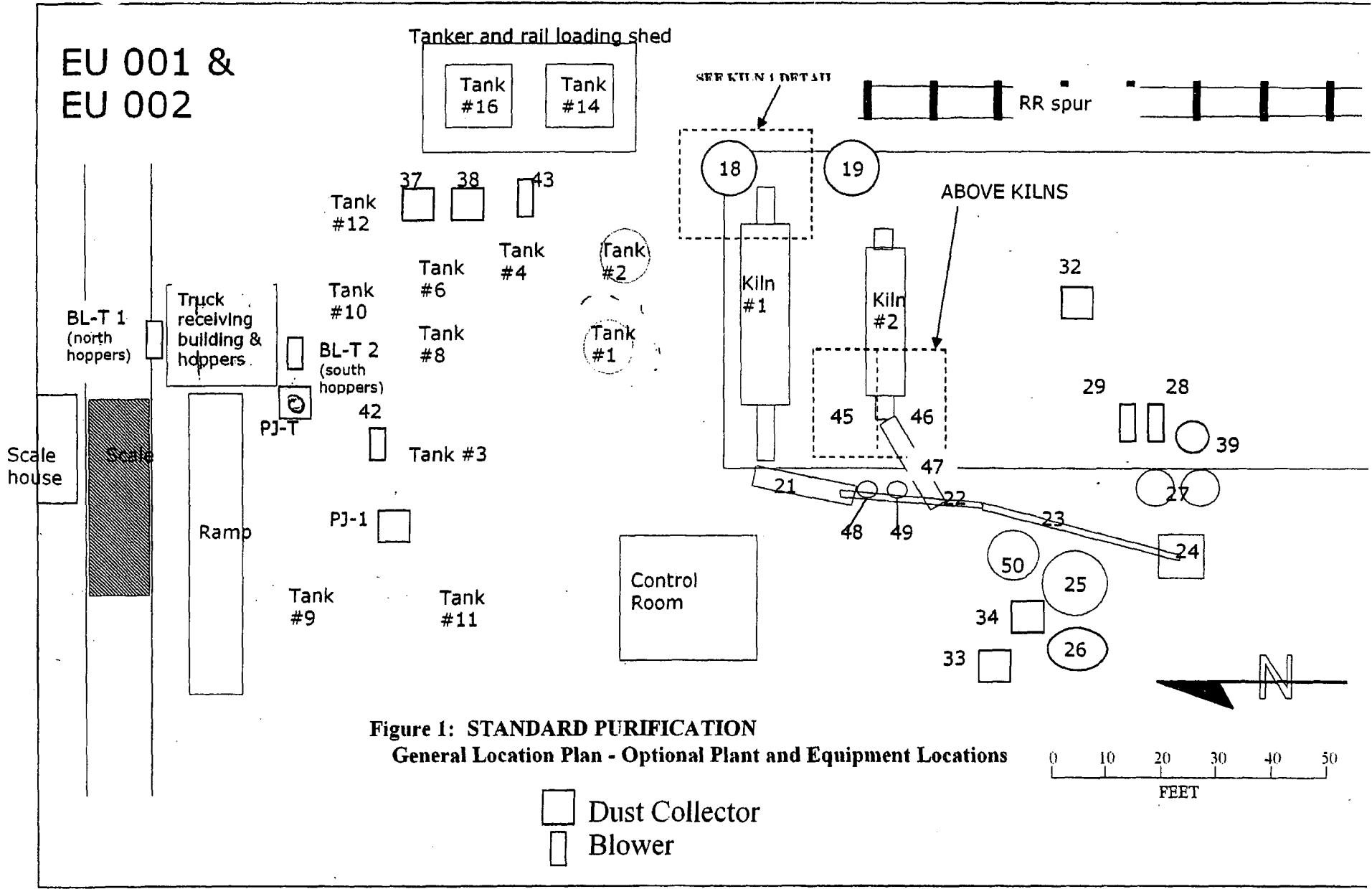
> Dave  
> David Zell  
> FDEP SWD District (Tampa)  
> Air Permit Engineering Specialist  
> PHONE: 813-632-7600 extension 118

>

>

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**General Plant Location – Operational Plant and Equipment Locations**

Task - Using the Plant Layout Drawings enter the correct name for each piece of plant and equipment with its corresponding number below:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. #9 tank
6. #11 tank
7. #3 - out of service
8. #8 - Carbon storage
9. #10 - Carbon storage
10. #12 - Carbon storage
11. #6 - out of service
12. #4 - out of service
13. #2 - out of service
14. #1 - out of service
15. #16 - Carbon storage
16. #14 - Carbon storage
17. Tanker/RRC loading shed
18. K1 hopper (bark char)
19. K2 hopper
20. #1 kiln
21. \_\_\_\_\_
22. \_\_\_\_\_
23. \_\_\_\_\_
24. Surge hopper
25. RM receiving hopper
26. Raymond Mill
27. \_\_\_\_\_
28. BL-3 (finished product to ~~2, 4, 6, 8~~, 10, or 12, (alt 9, 11))
29. BL- 2 BH fines and surge hopper material flow
30. \_\_\_\_\_
31. \_\_\_\_\_
32. ~~PJ-2~~
33. \_\_\_\_\_
34. RM Mikro Pulsaire baghouse
35. PJ-1
36. PJ-T
37. PJ-4
38. PJ-6
39. \_\_\_\_\_
40. BL-T 1
41. BL-T 2
42. BL-1
43. BL-5
44. #2 kiln
45. #1 baghouse

- 46. #2 baghouse \_\_\_\_\_
- 47. #2K cooling screw \_\_\_\_\_
- 48. 1K cyclone separator \_\_\_\_\_
- 49. 2K cyclone separator \_\_\_\_\_
- 50. RM Outlet hopper \_\_\_\_\_
- 51. 1 & 2 baghouse fines hopper \_\_\_\_\_

**Kiln 1 Detail – Operational Plant and Equipment Locations**

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_

**Bagging Room Detail – Operational Plant and Equipment Locations**

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_