Cedar Bay Generating Company, L.P.

Jacksonville, Florida

Cedar Bay Title V Operating Permit Application

ENSR

June 1996

Document Number 5402R067.700

Revision 3

Cedar Bay Generating Company
Limited Partnership

0310337-002-AV

June 13, 1996

RECEIVED
JUN 14 1996
BUREAU OF
AIR REGULATION

Mr. John Brown
Florida Department of Environmental Protection
MS 5505
2600 Blair Stone Rd.
Tallahassee, FL 32399-2400

Re: Cedar Bay Generating Co. (CBGC), Title V Permit Application

Dear Mr. Brown:

Four copies of CBGC's Title V permit application accompany this letter. The copies have original signatures of both CBGC's authorized representative, Mr. Timothy J. Cotner and engineering certifications from ENSR, our Title V consultant.

Should there be any questions regarding the application, please contact the undersigned at (904) 751-4000, ext. 22.

Sincerely,

Kevin D. Grant, C.E.P, Q.E.P

cc: M. Benjamin, FDEP, NE w/o attachments
Steve Pace, P.E., RESD w/o attachments
M. Griffin, USGEN w/o attachments
T. Cotner, CBGC w/o attachments
BP w/o attachments
Files

P.O. Box 26324 • 9640 Eastport Road • Jacksonville, FL 32226-6324 • 904-751-4000 • Fax 904-751-7320
An affiliate of U.S. Generating Company

BEST AVAILABLE COPY

FedEx. USA Airbill

Tracking Number 069788110232

69 100 34268320 6107M

1 From

Date 6/13/96 Sender's FedEx Account Number 1678-6773-1

Sender's Name Kevin Grant Phone 904-751-4000

Company CEDAR BAY GENERATING Dept./Floor/Suite/Room

Address 9640 EASTPORT RD

City JACKSONVILLE State FL Zip 32218

2 Your Internal Billing Reference Information

3 To

Recipient's Name John Brown Phone 904 488-1344

Company Dept. of Environmental Protection M.S. 5505 Twin Towers Office Building Dept./Floor/Suite/Room

Address 2600 Blair Stone Road

City Tallahassee State FL Zip 32399-2400

For HOLD at FedEx location check here
1 ☐ Hold Weekday (Not available with FedEx First Overnight) 3 ☐ Hold Saturday (Not available at all locations) (Not available with FedEx First Overnight or FedEx Standard Overnight)

For Saturday Delivery check here
3 ☐ (Extra Charge. Not available to all locations) (Not available with FedEx First Overnight or FedEx Standard Overnight)

4 Service Delivery commitment may be later in some areas

1 ☐ FedEx Priority Overnight (Next business morning) 5 ☐ FedEx Standard Overnight (Next business afternoon) 3 ☐ FedEx 2Day* (Second business day)
4 ☐ FedEx Govt. Overnight (Authorized user only) ☐ _____
7 ☐ FedEx Overnight Freight 8 ☐ FedEx 2Day Freight
(For packages over 150 pounds. Call for delivery schedule.)
6 ☐ NEW FedEx First Overnight (Earliest next business morning delivery to select locations) (Higher rates apply)

*FedEx Letter Rate not available. Minimum charge. One pound FedEx 2Day rate

5 Packaging

6 ☐ FedEx Letter* 2 ☐ FedEx Pak* 3 ☐ FedEx Box 4 ☐ FedEx Tube 1 ☒ Other Packaging
Declared value limit $500

6 Special Handling

Does this shipment contain dangerous goods? 4 ☐ Yes (As per attached Shipper's Declaration) ☐ Yes (Shipper's Declaration not required)
6 ☐ Dry Ice Dry Ice, 9, UN 1845 III _____ x _____ kg 904 (Dangerous Goods Shipper's Declaration not required) CA ☐ Cargo Aircraft Only

7 Payment ☐ Obtain Recipient FedEx Account No.

Bill to: 1 ☒ Sender (Account no. in section 1 will be billed) 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check
(Enter FedEx account no. or Credit Card no. below)

FedEx Account No _____
Credit Card No. _____ Exp. Date _____

Total Packages 1 Total Weight 54 Total Declared Value _____ Total Charges _____

* When declaring a value higher than $100 per package, you pay an additional charge. See SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY section for further information.

8 Release Signature

Your signature authorizes Federal Express to deliver this shipment without obtaining a signature and agrees to indemnify and hold harmless Federal Express from any resulting claims

232

WCSL 0296
Rev. Date 10/95 • PART #147381
©1994-95 FedEx • PRINTED IN U.S.A.

FedEx. USA Airbill

Tracking Number 069788110232

Recipient's Copy

69 100 34268320 6107M

1 From

Date 6/13/96

Sender's Name Kevin Grant Phone 904-751-4000

Company CEDAR BAY GENERATING Dept./Floor/Suite/Room

Address 9640 EASTPORT RD

City JACKSONVILLE State FL Zip 32218

2 Your Internal Billing Reference Information

3 To

Recipient's Name John Brown Phone 904 488-1344

Company Dept. of Environmental Protection M.S. 5505 Twin Towers Office Building Dept./Floor/Suite/Room

Address 2600 Blair Stone Road
(To "HOLD" at FedEx location, print FedEx address here.)

City Tallahassee State FL Zip 32399-2400

For HOLD at FedEx Location check here
☐ Hold Weekday (Not available with FedEx First Overnight) ☐ Hold Saturday (Not available at all locations) (Not available with FedEx First Overnight or FedEx Standard Overnight)

For Saturday Delivery check here
☐ (Extra Charge. Not available to all locations) (Not available with FedEx First Overnight or FedEx Standard Overnight)

4 Service Delivery commitment may be later in some areas.

☐ FedEx Priority Overnight (Next business morning) ☐ FedEx Standard Overnight (Next business afternoon) ☐ FedEx 2Day* (Second business day)
☐ FedEx Govt. Overnight (Authorized user only) ☐ DESCRIPTION
☐ FedEx Overnight Freight ☐ FedEx 2Day Freight
(For packages over 150 pounds. Call for delivery schedule.)
☐ NEW FedEx First Overnight (Earliest next business morning delivery to select locations) (Higher rates apply)

*FedEx Letter Rate not available. Minimum charge. One pound FedEx 2Day rate.

5 Packaging

☐ FedEx Letter* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☒ Other Packaging
Declared value limit $500.

6 Special Handling

Does this shipment contain dangerous goods? ☐ Yes (As per attached Shipper's Declaration) ☐ Yes (Shipper's Declaration not required)
☐ Dry Ice Dry Ice, 9, UN 1845 III _____ x _____ kg 904 (Dangerous Goods Shipper's Declaration not required) CA ☐ Cargo Aircraft Only

7 Payment ☐ Obtain Recipient FedEx Account No.

Bill to: ☒ Sender (Account no. in section 1 will be billed) ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check
(Enter FedEx account no. or Credit Card no. below)

Total Packages 1 Total Weight 54 Total Declared Value $ .00 Total Charges $ _____

* When declaring a value higher than $100 per package, you pay an additional charge. See SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY section for further information.

Credit Card Auth.

8 Release Signature

Your signature authorizes Federal Express to deliver this shipment without obtaining a signature and agrees to indemnify and hold harmless Federal Express from any resulting claims.

232

FORM ID NO. 0200

WCSL 0296
Rev. Date 10/95 • PART #147381
©1994-95 FedEx • PRINTED IN U.S.A.

SHIPPER'S FEDEX ACCOUNT NUMBER

FedEx.
Federal Express

FROM:
JEFF WALKER
CEDAR BAY
9640 EASTPORT ROAD

JACKSONVILLE FL 32218
PHONE: (904)751-4000

SHIP DATE: 18NOV98
MAN WGT: 1 LBS

TO:
WENDY ALEXANDER
FDEP
2600 BLAIR STONE ROAD
AIR RESOURCE MANAGEMENT
TALLAHASSEE FL 323992400
PHONE: (850)488-4805

REF:

DELIVERY ADDRESS
TRK # 7916 4510 2192 STANDARD OVERNIGHT
FORM ID: 0201
32399-FL-US

THU
AA
Deliver by:
19NOV98

TLH XB TLH

FedEx Shipping Label

To prepare your package for shipment, you need to do the following:

1. **Use the Print button in your browser to print this page to your laser printer.**
2. **Fold the printed page in half and use as the shipping label.**
3. **After printing the label, place it in a waybill pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.**

Continue Shipping

Cancel Shipment

New! To improve download speed and reduce the number of printed documents, the Shipment Summary has been removed from the shipping label and is now available from your Shipping History. To access your Shipping History, click on the "Shipping History" button from the 'Account and User Information' screen, select the appropriate shipment, and click on the "Shipment Details" button.

Cedar Bay Generating Company, L.P.

Jacksonville, Florida

Cedar Bay Title V Operating Permit Application

ENSR

June 1996

Document Number 5402R067.700

Revision 3

TABLE OF CONTENTS

TABLE OF CONTENTS (Cont'd)

TABLE OF CONTENTS (Cont'd)

ATTACHMENTS

Facility Supplemental Information: **Reference Information**

Any references made to Cedar Bay, Cedar Bay Cogeneration Project (CBCP), Cedar Bay Facility or Cedar Bay Generating Plant are all intended to represent the Cedar Bay Generating Co., L. P., Jacksonville, FL source permitted to operate under PSD-FL-137.

Any reference to the Seminole Kraft (S-K) facility represent the S-K facility current name and ownership, Stone Container Corp. of Jacksonville, FL

INTRODUCTION

Background

Cedar Bay Generating Company, L.P. owns and operates the Cedar Bay Cogeneration (CBC) facility located in Jacksonville, Florida. This facility is subject to the major source operating permit program under Title V of the Clean Air Act Amendments of 1990 (CAAA). This document is intended to fulfill the requirements of the Title V Operating Permit application submittal pursuant to Section 62-210 and 62-213, Florida Administrative Code (F.A.C.).

Scope

This application is submitted for the entire CBC facility and addresses those emissions, sources, activities, and requirements subject to Title V of the CAAA and Section 62-210 and 62-213, F.A.C. It also covers those issues which need to be addressed for the development of a comprehensive Title V permit that would enable the CBC facility to successfully operate in compliance with all applicable requirements and remain competitive in the cogeneration business.

Objectives

It is the objective of this permit application to present to the permitting authority all the necessary and required information for the issuance of a Title V Operating Permit to the CBC facility in compliance with the requirements of Section 62-210 and 62-213, F.A.C. Cedar Bay Generating Company's intent is to present a permit application with good faith estimates of all relevant data and applicable requirements to support a valid compliance determination certification and a completeness determination.

Cedar Bay Generating Company believes certain issues and objectives are critical in the conduct of its business in order to successfully operate and remain competitive in the cogeneration industry. The major objectives sought in this permit application are stated below.

Alternate Operating Scenarios

Alternate Mode of Operation - Ash Handling

Two operating scenarios have been identified for ash handling operations:

1) Dry Ash Loadout
2) Ash Pelletizing

Dry ash loadout refers to the loading of dry fly ash and bed ash onto trucks. Emissions from this loading are controlled by a baghouse, with Emission Point Number (EPN) designation A18.

Ash pelletizing refers to all operations necessary for the pelletization of the ash that are not also necessary for dry ash loadout.

The current permit states that these operations cannot be conducted simultaneously. These two scenarios have been presented in the permit application with this understanding. They are represented by alternate modes of operation, since the result is an emissions trade.

Alternate Method of Operation - Full Flow Reheat Bypass

An alternate method of operation has been identified for the boilers, full flow reheat bypass (FFRB). When the turbine is not operating, and steam is provided to the Seminole Kraft facility, the firing rate to the boilers is reduced, resulting in increased CO emissions per MMBtu, up to about 0.2 lb/MMBtu when firing between 500 and 700 MMBtu/hr, compared to the permitted 0.175 lb/MMBtu at normal firing rate. This calculates to CO emissions of about 140 lb/hr CO emissions during FFRB, compared to the permitted 186 lb/hr CO emissions.

Startup and Shutdown of the CFBC Boilers

Startup and shutdown of the Circulating Fluidized Bed Combustion boilers (CFBCs) requires oil-firing, which can lead to increased CO emissions. For the purposes of this permit application, startup of the CFBCs is defined as the beginning of oil fire and ending eight hours after oil fire is complete. Likewise, shutdown of the CFBCs is defined as the beginning of oil fire until the firing is discontinued, not to exceed eight hours total. Incorporation of this or a similar definition into the existing certification is currently being pursued, thus an amendment to the Title V Operating Permit and or Permit Application may be required.

Procedures for Startup and Shutdown are further detailed in document CB03, attached.

Record Keeping and Reporting

Cedar Bay Generating Company believes the record keeping and reporting requirements specified in its current permit are sufficient to ensure compliance with the applicable requirements for the CBC facility.

Exempt Sources

On April 2, 1996, Cedar Bay Generating Company sent to Mr. Bruce Mitchell a letter requesting exemption for several insignificant sources pertaining to the Cedar Bay Generating Facility. FL DEP responded, indicating that the procedure for identifying insignificant sources had changed, that trivial sources on the approved FL DEP "Trivial List of Activities" did not need to be presented in the application. Rule 62-213.430(6)(a) states "All requests for exemption of emissions units or activities made pursuant to Rule 62-213.420(3)(m), F.A.C., shall be processed in conjunction with the permit...application submitted pursuant to this chapter." CBC is requesting for exemption of all sources listed in the April 2, 1996 letter, presented in Section IV of this application.

Supplemental Requirements

Some of the supplemental documents specify much more detail than is warranted for a facility which has already received a PSD permit and passed certification tests. The CBC facility has already demonstrated compliance, by means of quarterly CEM reports and the initial certification tests, which have all been submitted to the FL DEP, and therefore is requesting a waiver for the requirement to submit a Detailed Description of Control Equipment, Description of Stack Sampling Facilities, and Compliance Tests Reports.

Fugitive Emissions Identification

There are several potential sources of fugitive particulate matter (PM) emissions as listed below.

Described in the Coal Handling Section are:

Coal loading, unloading, and conveyor transfer points;
Coal pile storage wind erosion; and
Coal pile traffic (heavy equipment).

Described in the Limestone (Aragonite) Handling Section are:

Limestone (Aragonite) unloading and conveyor transfer points;
Limestone (Aragonite) storage pile; and
Limestone (Aragonite) truck traffic.

Described in the Ash Handling Section are:

Bed ash rejects;
Pelletizer system yard area cleanup, mobile equipment transfers; and
Pelletizer system yard area traffic.

The following are potential sources of fugitive VOC emissions:

Fuel oil, diesel, and gasoline storage tanks and transfer system.

Many of the above result in insignificant emissions and exemptions are requested in Section IV of the application document.

Precautions to Prevent Emissions of Unconfined Particulate Matter

The CBC facility implements the following measures to control unconfined PM sources of emissions:

Unconfined PM related to coal transfer points is controlled by water spray in key locations, as described in the application forms.

Unconfined PM related to coal, limestone (aragonite) and ash mobile equipment operations is controlled by wetting the coal pile and road surfaces as indicated in the application forms.

The coal pile is wetted by water spray. The 30-day storage pile compaction for the purpose of fire prevention and control also helps reduce PM emissions.

The limestone (aragonite) receiving pile is not wetted, as this would limit its usability. However, the emissions from the pile are insignificant as described in Section IV in the application report.

Process Flow Diagrams

Process Flow Diagrams are incorporated into the appropriate emission unit sections (e.g., Coal Handling, Ash Handling, etc.)

Fuel Specifications

Fuel specification requirements are listed as a condition of the PSD permit. Fuel burned at the CBC facility meets or exceeds these requirements.

Format

This application presents information required and/or requested by the FL DEP in a logical order. Cedar Bay Generating Company first states the purpose of the application, then states several objectives.

Cedar Bay Generating Company supports these objectives by presenting first, the more general facility information per the FL DEP application forms in Sections I and II, followed by emission unit specific information in Section III. Emission Unit sections are grouped by operational relationships as they pertain to emissions. Thus, the following groups were arrived at: coal handling, limestone handling, boilers, ash handling, and the zero discharge water/waste water treatment system. Each group contains the relevant application forms, followed by a process flow diagram, emissions summaries, process data, and the supporting calculations.

Due to the schedule for developing this application, and the various changes made by FL DEP to regulations, application forms and submittal requirements, this application is a composite of old and new application forms. In any given section, forms which would be left blank were removed from the group. The newer forms included a form "G. Emission Unit Pollutants", and are sequenced different from the previous forms. Form "G" in the new set lies between the Segment Information forms ("F") and the Emission Unit Pollutant Detail Information forms ("H"). We therefore incorporated form "G" into the old set of forms between the same information forms "D. Segment Information" and "E. Emission Unit Pollutant Detail Information". Certain forms in the new set were described as used for "Regulated Emission Units Only". Those, and the corresponding forms in the old set, were removed from the unregulated emission units sections.

Other supplemental information is attached, including

CB01 Compliance Report and Plan;
CB02 Compliance Certification;
CB03 Procedures for Startup and Shutdown; and
CB04 Operation and Maintenance Plan.
CB05 List of Equipment/Activities Regulated Under Title VI

Other items will be submitted as required and requested by the FL DEP.

FLORIDA DEP LOGO

DIVISION OF AIR RESOURCES MANAGEMENT

APPLICATION FOR AIR PERMIT - LONG FORM

See Instructions for Form No. 62-210.900(1)

I. APPLICATION INFORMATION

This section of the Application for Air Permit form identifies the facility and provides general information on the scope and purpose of this application. This section also includes information on the owner or authorized representative of the facility (or the responsible official in the case of a Title V source) and the necessary statements for the applicant and professional engineer, where required, to sign and date for formal submittal of the Application for Air Permit to the Department. If the application form is submitted to the Department using ELSA, this section of the Application for Air Permit must also be submitted in hard-copy.

Identification of Facility Addressed in This Application

Enter the name of the corporation, business, governmental entity, or individual that has ownership or control of the facility; the facility site name, if any; and the facility's physical location. If known, also enter the facility identification number.

1. Facility Owner/Company Name: **Cedar Bay Generating Company, L.P.**	
2. Site Name: **Cedar Bay Cogeneration Facility**	
3. Facility Identification Number: **31DVL160337**	[ ] Unknown
4. Facility Location: **U.S. Generating Cedar Bay Facility** Street Address or Other Locator: **9640 Eastport Road** City: **Jacksonville** County: **Duval** Zip Code: **32226**	
5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [X] Yes [ ] No

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	
2. Permit Number:	
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official:

2. Owner/Authorized Representative or Responsible Official Mailing Address:

   Organization/Firm:
   Street Address:
   City: State: Zip Code:

3. Owner/Authorized Representative or Responsible Official Telephone Numbers:
   Telephone: ( ) - Fax: ( ) -

4. Owner/Authorized Representative or Responsible Official Statement:

   I, the undersigned, am the owner or authorized representative of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210.200, F.A.C., of the Title V source addressed in this application, whichever is applicable. 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.*

Signature _____ Date 13 Jun 96

* Attach letter of authorization if not currently on file.

Scope of Application

This Application for Air Permit addresses the following emissions unit(s) at the facility. An Emissions Unit Information Section (a Section III of the form) must be included for each emissions unit listed.

Emissions Unit ID	Description of Emissions Unit	Permit Type
Unknown	Coal Handling System Fugitives	AF2C
006	Coal Crusher Dust Collector (1-BMC-DCO-1)	AF2A
007	Coal Silo Dust collector (1-CHF-DCO-2)	AF2A
020	Coal Car Unloading - removed (part of Fugitives)	N/A
Unknown	Limestone Handling System Fugitives	AF2C
Unknown*	Limestone Dryer/Pulverizer (1-BMC-FLT-1A) and (1-BMC-FLT-1B)	AF2A
*004, 008,005, 024	Removed - Reassigned above	N/A
009	Limestone Hopper 1 Vent Filter (1-BMC-FLT-1)	AF2A
025	Limestone Hopper 2 Vent Filter (1-BMC-FLT-2)	AF2A
Unknown	Limestone Rotary Feeder Vents (6 Feeders/Vents)	AF2A
001	Fluidized Bed Boiler A	AF2B
002	Fluidized Bed Boiler B	AF2B
003	Fluidized Bed Boiler C	AF2B
Unknown	Ash Handling System Fugitives	AF2C
010	Bed Ash Storage Hopper Vent Filter w/Fan (1 ASA-FLT-1)	AF2A
011	Bed Ash Silo Collector (Vents through Ash Mechanical Exhausts) (1 ASA-CO-2)	AF2A
Unknown	Bed Ash Silo Vent Filter (1 ASA-FLT-3), controls truck loadout (no activity), rail loadout, silo transfers	AF2A
012	Fly Ash Collector (Vents through Ash Mechanical Exhausts) (1 ASA-CO-1A)	AF2A

Emissions Unit ID	Description of Emissions Unit	Permit Type
026	Fly Ash Collector (Vents through Ash Mechanical Exhausts) (1 ASA-CO-1B)	AF2A
Unknown	Fly Ash Silo Vent Filter (1 ASA-FLT-2), controls truck load out, rail loadout, silo	AF2A
013	Bed Ash Pelletizer Receiver Vent Filter (1 ASF-FLT-2)	AF2A
014	Fly Ash Receiver Vent Filter (1 ASF-FLT-1)	AF2A
016	Recycle Tank Dust Filter (1 ASF-DCO-2)	AF2A
021	Hydrator Venturi Scrubber (1 ASF-SCB-1)	AF2A
023	Pan Impingement Scrubber (1 ASF-SCB-2)	AF2A
022	Curing Silo Impingement Scrubber (1 ASF-SCB-3)	AF2A
018	Curing Silo Dust Filter (1 ASF DCO-4)	AF2A
029	RR Pellet Load Out Dust Filter (1 ASF-DCO-3)	AF2A
019	Pellet Recycle Belt Head Pulley to Bucket Elevator Dust Filter (1 ASF-DCO-5)	AF2A
015	Pellet Screen Dust Filter (1 ASF-DCO-1)	AF2A
030 ✓	Dry Ash Loadout Dust Collector	AF2A
017	Recycle Surge Hopper Filter (500 cfm)	AF2A
Unknown	Zero Discharge WWHU	AF2C
Unknown	Zero Discharge Cooling Tower	AF2C

Notes: AF2A - Initial Certification Test.
AF2B - CEMS, or Initial Certification Tests

Purpose of Application and Category

Check one (except as otherwise indicated):

Category I: All Air Operation Permit Applications Subject to Processing Under Chapter 62-213, F.A.C.

This Application for Air Permit is submitted to obtain:

[X] Initial air operation permit under Chapter 62-213, F.A.C., for an existing facility which is classified as a Title V source.

[ ] Initial air operation permit under Chapter 62-213, F.A.C., for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number: _____

[ ] Air operation permit renewal under Chapter 62-213, F.A.C., for a Title V source.

Operation permit to be renewed: _____

[ ] Air operation permit revision for a Title V source to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number: _____

Operation permit to be revised: _____

[ ] Air operation permit revision or administrative correction for a Title V source to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. Also check Category III.

Operation permit to be revised/corrected: _____

[ ] Air operation permit revision for a Title V source for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.

Operation permit to be revised: _____

Reason for revision: _____

_____

Category II: All Air Operation Permit Applications Subject to Processing Under Rule 62-210.300(2)(b), F.A.C.

This Application for Air Permit is submitted to obtain:

[ ] Initial 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):

_____

[ ] Renewal air operation permit under Rule 62-210.300(2)(b), F.A.C., for a synthetic non-Title V source.

Operation permit to be renewed: _____

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

Operation permit to be revised: _____

Reason for revision: _____

_____

Category III: All Air Construction Permit Applications for All Facilities and Emissions Units

This Application for Air Permit is submitted to obtain:

[ ] Air construction permit to construct or modify one or more emissions units within a facility (including any facility classified as a Title V source).

Current operation permit number(s), if any: _____

[ ] Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

Current operation permit number(s): _____

[ ] Air construction permit for one or more existing, but unpermitted, emissions units.

Application Processing Fee

Check one:

[ ] Attached - Amount: $_____ [X] Not Applicable.

Construction/Modification Information

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

Professional Engineer Certification

1. Professional Engineer Name: **G. Preston Lewis** Registration Number: **41755**
2. Professional Engineer Mailing Address: Organization/Firm: **ENSR** Street Address: **1528 Metropolitan Blvd., Suite A2** City: **Tallahassee** State: **Florida** Zip Code: **32315**
3. Professional Engineer Telephone Numbers: Telephone: **(904) 385-0808** Fax: **(904) 385-5457**

4. Professional Engineer Statement:

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

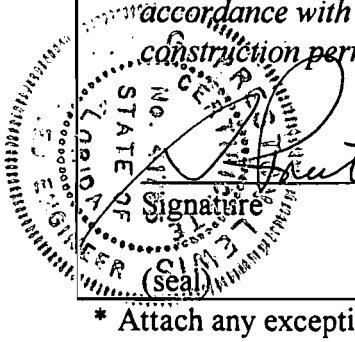
(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here [X] if so), I further certify that, to the best of my knowledge, each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [ ] if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

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



Signature (seal)

6/11/96
Date

* Attach any exception to certification statement.

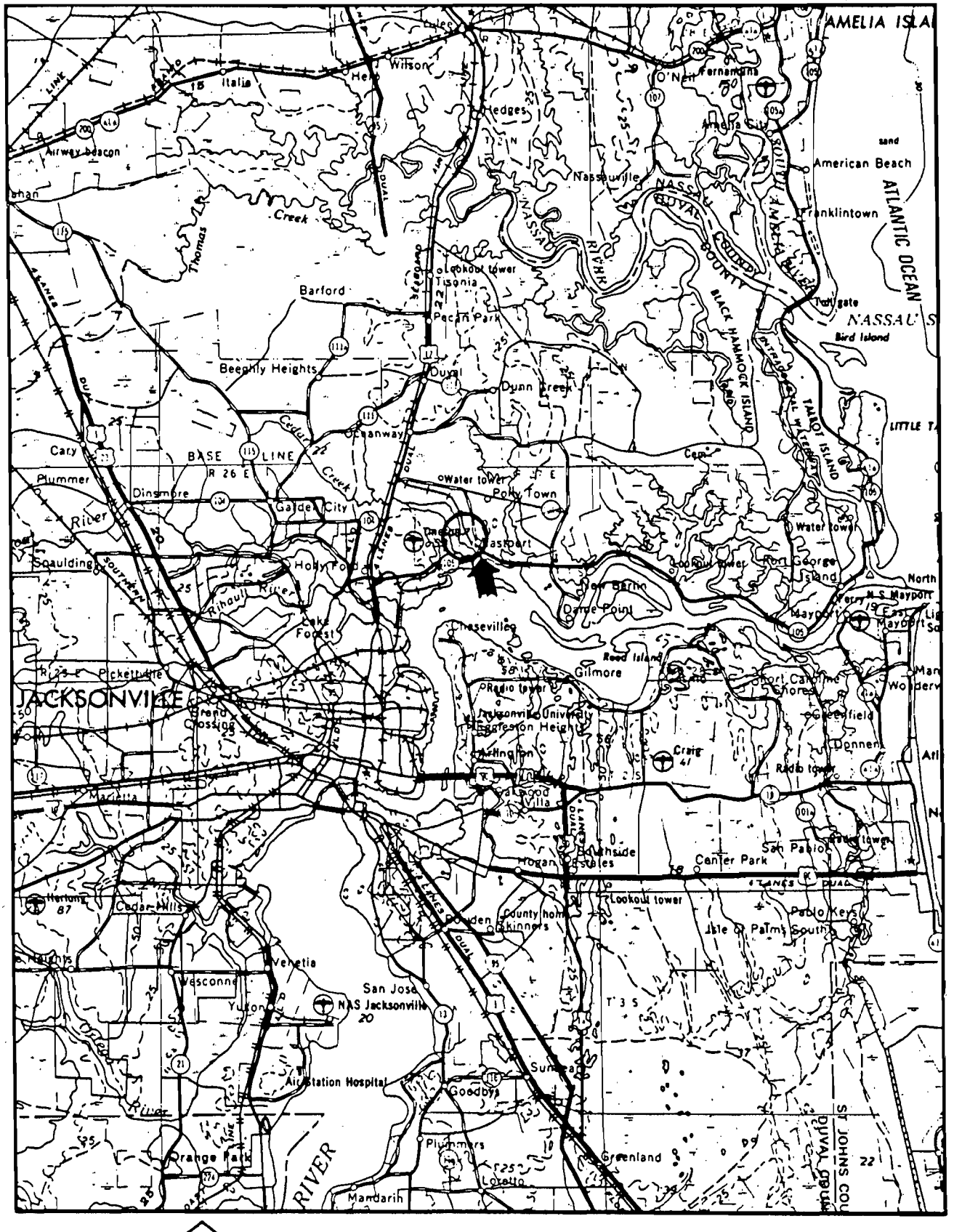
Application Contact

1. Name and Title of Application Contact: **Kevin Grant, Environmental & Safety Manager**
2. Application Contact Mailing Address: Organization/Firm: **U.S. Generating Company** Street Address: **9640 Eastport Road** **(P.O. Box 2234--Zip Code: 32317-3206)** City: **Jacksonville** State: **Florida** Zip Code: **32315**
3. Application Contact Telephone Numbers: Telephone: **(904) 751-4000** Fax: **(904) 751-7320**

Application Comment

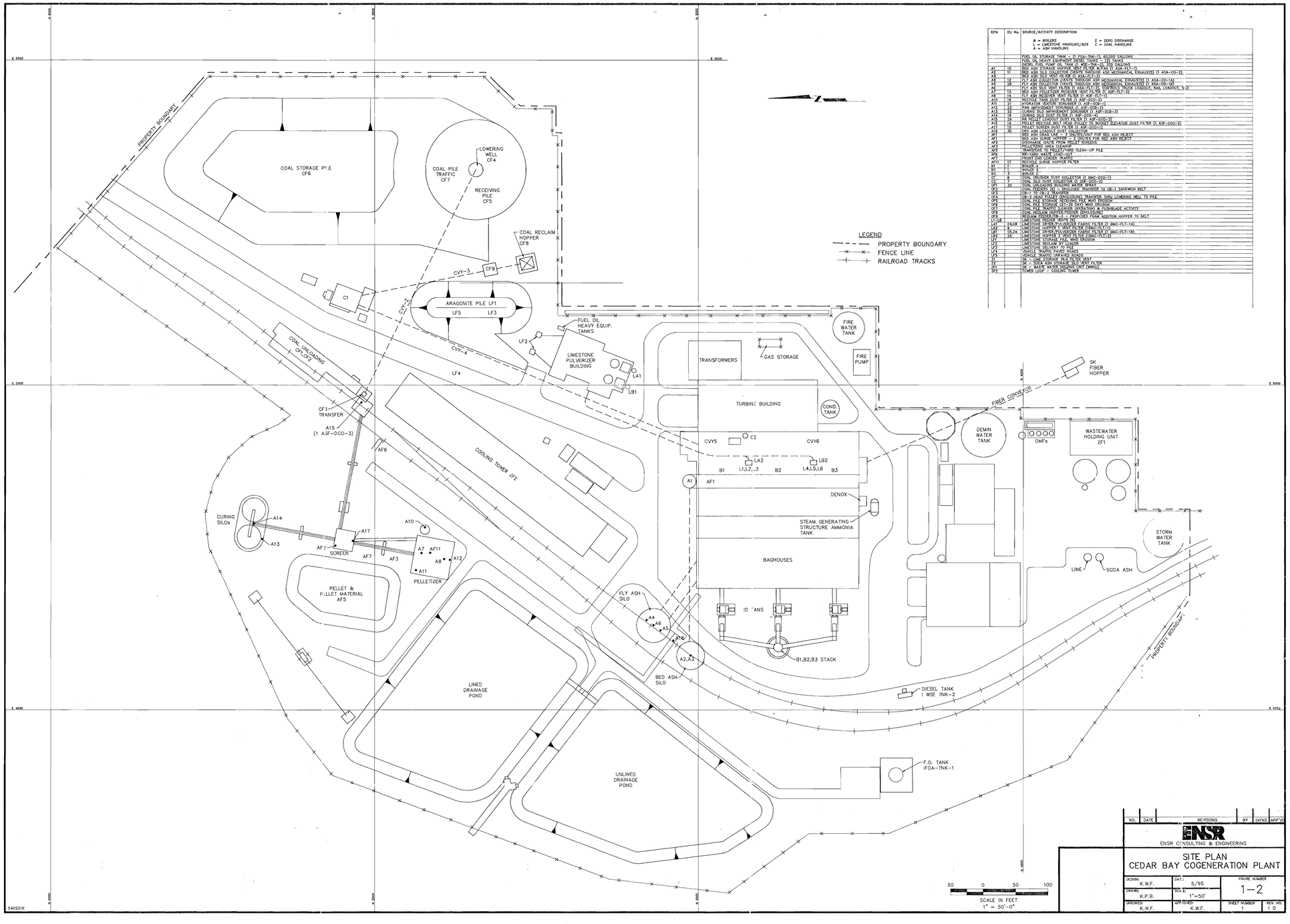
Alternate Contacts for the Application:

Preston Lewis, P.E.	**ENSR Tallahassee** **(904) 385-0808**
Barry Andrews, P.E.	**ENSR Florence** **(205) 767-1210**
Keith Field	**ENSR Florence** **(205) 767-1210**
Don Beckham	**U. S. Generating Company** **(301) 718-6757**



REGIONAL SITE LOCATION

Figure 1-1



EPN	EU No.	SOURCE/ACTIVITY DESCRIPTION
		B = BOILERS Z = ZERO DISCHARGE L = LIMESTONE HANDLING/ADS C = COAL HANDLING A = ASH HANDLING
		FUEL OIL STORAGE TANK - #1 (FOA-TNK-1) 60,000 GALLONS
		FUEL OIL HEAVY EQUIPMENT DIESEL TANKS - (2) TANKS
		DIESEL FUEL PUMP - OIL TANK #1 (FOE-TNK-1) 330 GALLONS
A1	10	BED ASH STORAGE SILO VENT FILTER (1 ASA-FLT-1)
A2	11	BED ASH SILO VENT FILTER (1 ASA-FLT-2) PORTROL'S TRUCK LOADOUT (1 ASA-DCC-2)
A3		BED ASH SILO VENT FILTER (1 ASA-FLT-3) PORTROL'S RAIL LOADOUT (1 ASA-DCC-3)
A4	12	FLY ASH COLLECTOR EVENTS THROUGH ASH MECHANICAL EXHAUSTS (1 ASA-DCC-1A)
A5	28	FLY ASH COLLECTOR EVENTS THROUGH ASH MECHANICAL EXHAUSTS (1 ASA-DCC-1B)
A6		FLY ASH SILO VENT FILTER (1 ASA-FLT-2) PORTROL'S TRUCK LOADOUT, RAIL LOADOUT, S-D
A7	13	BED ASH PELLETIZER RECEIVER VENT FILTER (1 ASF-FLT-2)
A8	14	BED ASH PELLETIZER VENT FILTER (1 ASF-FLT-1)
A10	15	RELEASE TANK VENT FILTER (1 ASF-FLT-3)
A11	21	HYDRATION VENTURI SCRUBBER (1 ASF-SCB-1)
A12	23	PAN AGGLOMERATOR SCRUBBER (1 ASF-SCB-2)
A13	22	CURING SILO IMPINGEMENT SCRUBBER (1 ASF-SCB-3)
A14	18	CURING SILO DUST FILTER (1 ASF-DCC-2)
A15	29	PELLET MATERIAL DUST COLLECTOR (1 ASF-DCC-3)
A16	19	PELLET REJECT/RECYCLE SURGE BIN (1 ASF-DCC-4) BUCKET ELEVATOR DUST FILTER (1 ASF-DCC-5)
A17	17	PELLET SCREEN DUST FILTER (1 ASF-DCC-1)
A18	30	GRAY ASH LAGOON DUST COLLECTOR
AF1		BED ASH SILO VENT FILTER - (1) ENTRETE/VENT FOR BED ASH REJECT
AF2		BED ASH SILO VENT FILTER - (1) ENTRETE FOR BED ASH REJECT
AF3		PELLETIZER VENT FILTER - (1) ENTRETE PELLET SCREENS
AF5		PELLETIZER AREA CLEANUP
AF6		TRANSFERS TO PELLET/YARD CLEAN-UP PILE
AF7		RR-YARD WASTE LOAD-OUT
AF8		FRONT END LOADER TRAFFIC
AF11	17	RECYCLE SURGE HOPPER FILTER
B1	1	BOILER A
B2	2	BOILER B
B3	3	BOILER C
C1	6	COAL CRUSHER DUST COLLECTOR (1 BMC-DCC-1)
C2	7	COAL SILO DUST COLLECTOR (1 BSF-DCC-2)
CF1	20	COAL UNLOADING - BUILDING CENTER
CF2		COAL UNLOADING - (2) TRANSFERS FROM BARGE TO CB-1 SANDWICH BELT
CF3		COAL TO SILO - RESERVED
CF4		CB-3 HEAD PULLEY (ENCLOSURE) TRANSFER THRU LOWERING WELL TO PILE
CF5		COAL PILE STORAGE RECEIVING PILE WIND EROSION
CF6		COAL PILE STORAGE (27.2) DAYS WIND EROSION
CF7		COAL PILE TRAFFIC - FRONT END LOADER & BULLDOZER ACTIVITY
CF8		COAL RECLAIM HOPPER/VIBRATOR/TRANSFER TO CB-4
CF9		RECLAIM FEEDER/CB-4 - PREFORMED FOAM ADDITION HOPPER TO BELT
LT-LB		LIMESTONE FEEDER VENTS (8)
LA1	DLOB	LIMESTONE DRYER PULVERIZER FABRIC FILTER (1 BMC-FLT-1A)
LA2	8	LIMESTONE HOPPER B VENT FILTER (1BMC-FLT-2)
LB1	DLOA	LIMESTONE HOPPER A VENT FILTER (1BMC-FLT-1B)
LB2	26	LIMESTONE HOPPER C VENT FILTER (1BMC-FLT-2)
LF1		LIMESTONE STORAGE PILE WIND EROSION
LF3		LIMESTONE RECLAIM BY LOADER
LF3		LIMESTONE DELIVERY TO PILE
LF4		VEHICLE TRAFFIC PAVED ROADS
LF5		VEHICLE TRAFFIC UNPAVED ROADS
P1		LIMESTONE SLURRY MIX TANK AGITANT
P2		SK - STEAM ATOMIZING OIL UNIT FILTER
P3		SK - WASTE WATER TREATING UNIT (MMFU)
RP2		TOWER LOOP - COOLING TOWER

NO.	DATE	REVISIONS	BY	CH'KD	APP'VD

ENSR CONSULTING & ENGINEERING

SITE PLAN
CEDAR BAY COGENERATION PLANT

DESIGN: K.W.F.	DATE: 5/95		FIGURE NUMBER: 1-2
DRAWN: K.P.B.	SCALE: 1"=50'		
CHECKED: K.W.F.	APPROVED: K.W.F.	SHEET NUMBER: 1	REV. NO.: 1 0

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone: 0903 East (km): 441.610 North (km): 441.610			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): 30° 25' 21" N Longitude (DD/MM/SS): 81° 36' 23" W			
3. Governmental Facility Code: 0	4. Facility Status Code: A	5. Facility Major Group SIC Code: 49	6. Facility SIC(s): 4911
7. Facility Comment (limit to 500 characters):			

Facility Contact

1. Name and Title of Facility Contact: Kevin Grant
2. Facility Contact Mailing Address: Organization/Firm: U.S. Generating Company Street Address: 9640 Eastport Road City: Jacksonville State: Florida Zip Code: 32226
3. Facility Contact Telephone Numbers: Telephone: (904) 751-4000 Fax: (904) 904-751-7320

Facility Regulatory Classifications

1. Small Business Stationary Source? [ ] Yes [X] No [ ] Unknown
2. Title V Source? [X] Yes [ ] No
3. Synthetic Non-Title V Source? [ ] Yes [X] No
4. Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)? [X] Yes [ ] No
5. Synthetic Minor Source of Pollutants Other than HAPs? [ ] Yes [X] No
6. Major Source of Hazardous Air Pollutants (HAPs)? [X] Yes [ ] No
7. Synthetic Minor Source of HAPs? [ ] Yes [X] No
8. One or More Emissions Units Subject to NSPS? [X] Yes [ ] No
9. One or More Emission Units Subject to NESHAP? [ ] Yes [X] No
10. Title V Source by EPA Designation? [X] Yes [ ] No
11. Facility Regulatory Classifications Comment (limit to 200 characters): Item 6: The facility may be a major source of HCl, based on the following assumptions: ppm Cl in coal: 846 coversion to HCl: 100% Removal efficiency: 97% At 1,170,000 tpy coal, this yields 30.5 tpy HCl No testing has been done at this facility for HAPs not requiring testing per the current permit.

B. FACILITY REGULATIONS

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

Core List Dated 03/25/96, EXCEPT • All Federal 40 CFR 61/40 CFR 82 • 62-296.400 Incinerators Not Applicable • 62-281 Motor Vehicle Air Conditioner	Incorporations by Reference
Rule F.A.C. 62-212.300	General Preconstruction Review
Rule F.A.C. 62-212.400	PSD/BACT
Rule F.A.C. 62-296.570(4)(a)	Reasonably Available Control Technology
Rule F.A.C. 62-296-702	Fossil Fuel Steam Generators (RACT)
Rule F.A.C. 62-296.711	Material Handling, Sizing, Screening, Crushing, and Grinding Operations
Rule F.A.C. 62-204.800	Standards of Performance for New Stationary Sources
Rule F.A.C. 62-297.401	Compliance Test Methods (Emission Unit-Specific)
Rule F.A.C. 62-297.520	EPA Performance Specifications
Rule F.A.C. 62-297.620	Exceptions and Approval of Alternate Procedures and Requirements
Rule F.A.C. 62- 210.370	Reports

[Note: The Title V Core List is meant to simplify the completion of the "List of Applicable Regulations" for DEP Form No. 62-210.900(1), Application for Air Permit - Long Form. The Title V Core List is a list of rules to which all Title V Sources are presumptively subject. The Title V Core List may be referenced in its entirety, or with specific exceptions. The Department may periodically update the Title V Core List.]

Federal: ***(description)***

40 CFR 61: National Emission Standards for Hazardous Air Pollutants (NESHAP)
40 CFR 61, Subpart M: National Emission Standard for Asbestos.

40 CFR 82: Protection of Stratospheric Ozone.
40 CFR 82, Subpart B: Servicing of Motor Vehicle Air Conditioners (MVAC).
40 CFR 82, Subpart F: Recycling and Emissions Reduction.

State: ***(description)***

CHAPTER 62-4, F.A.C.: PERMITS. effective 10-16-95

62-4.030, F.A.C.: General Prohibition.
62-4.040, F.A.C.: Exemptions.
62-4.050, F.A.C.: Procedure to Obtain Permits; Application.
62-4.060, F.A.C.: Consultation.
62-4.070, F.A.C.: Standards for Issuing or Denying Permits; Issuance; Denial.
62-4.080, F.A.C.: Modification of Permit Conditions.
62-4.090, F.A.C.: Renewals.
62-4.100, F.A.C.: Suspension and Revocation.
62-4.110, F.A.C.: Financial Responsibility.
62-4.120, F.A.C.: Transfer of Permits.
62-4.130, F.A.C.: Plant Operation - Problems.
62-4.150, F.A.C.: Review.
62-4.160, F.A.C.: Permit Conditions.
62-4.210, F.A.C.: Construction Permits.
62-4.220, F.A.C.: Operation Permit for New Sources.

CHAPTER 62-103, F.A.C.: RULES OF ADMINISTRATIVE PROCEDURE. effective 12-31-95

62-103.150, F.A.C.: Public Notice of Application and Proposed Agency Action.
62-103.155, F.A.C.: Petition for Administrative Hearing; Waiver of Right to Administrative Proceeding.

CHAPTER 62-210, F.A.C.: STATIONARY SOURCES - GENERAL REQUIREMENTS. effective 03-21-96

62-210.300, F.A.C.: Permits Required.
62-210.300(1), F.A.C.: Air Construction Permits.
62-210.300(2), F.A.C.: Air Operation Permits.
62-210.300(3), F.A.C.: Exemptions.
62-210.300(3)(a), F.A.C.: Full Exemptions.
62-210.300(3)(b), F.A.C.: Temporary Exemption.

62-210.300(5), F.A.C.: Notification of Startup.
62-210.300(6), F.A.C.: Emissions Unit Reclassification.

62-210.350, F.A.C.: Public Notice and Comment.
62-210.350(3), F.A.C.: Additional Public Notice Requirements for Facilities Subject to Operation Permits for Title V Sources.

62-210.360, F.A.C.: Administrative Permit Corrections.

62-210.370(3), F.A.C.: Annual Operating Report for Air Pollutant Emitting Facility.

62-210.650, F.A.C.: Circumvention.

62-210.900, F.A.C.: Forms and Instructions.
62-210.900(1) Application for Air Permit - Long Form, Form and Instructions.
62-210.900(5) Annual Operating Report for Air Pollutant Emitting Facility, Form and Instructions.

CHAPTER 62-213, F.A.C.: OPERATION PERMITS FOR MAJOR SOURCES OF AIR POLLUTION, effective 03-20-96

62-213.205, F.A.C.: Annual Emissions Fee.
62-213.400, F.A.C.: Permits and Permit Revisions Required.
62-213.410, F.A.C.: Changes Without Permit Revision.
62-213.412, F.A.C.: Immediate Implementation Pending Revision Process.
62-213.420, F.A.C.: Permit Applications.
62-213.430, F.A.C.: Permit Issuance, Renewal, and Revision.
62-213.440, F.A.C.: Permit Content.
62-213.460, F.A.C.: Permit Shield.

62-213.900, F.A.C.: Forms and Instructions.
62-213.900(1) Major Air Pollution Source Annual Emissions Fee Form, Form and Instructions.

CHAPTER 62-256, F.A.C.: OPEN BURNING AND FROST PROTECTION FIRES, effective 11-30-94

CHAPTER 62-257, F.A.C.: ASBESTOS NOTIFICATION AND FEE, effective 03/24/96

CHAPTER 62-281, F.A.C.: MOTOR VEHICLE AIR CONDITIONING REFRIGERANT RECOVERY AND RECYCLING, effective 03-07-96

CHAPTER 62-296, F.A.C.: STATIONARY SOURCES - EMISSION STANDARDS, effective 03-13-96

62-296.320(2), F.A.C.: Objectionable Odor Prohibited.
62-296.320(3), F.A.C.: Industrial, Commercial, and Municipal Open Burning Prohibited.
62-296.320(4)(c), F.A.C.: Unconfined Emissions of Particulate Matter.

n:\t5permit\canned\core.lst

C. FACILITY POLLUTANTS

Facility Pollutant Information

1. Pollutant Emitted	2. Pollutant Classification
PM	A
PM10	A
NO_X	A
SO_2	A
CO	A
VOC	A
PB	B
H021 (Be)	B
H114 (Hg)	B
SAM (H_2SO_4 Mist)	B
FL	B
H038 (Chlorine)	B
Ammonia	B
H106	A

E. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications

1. Area Map Showing Facility Location: [X] Attached, Document ID:_____ [ ] Not Applicable [ ] Waiver Requested **Figure 1-1 in Section I**
2. Facility Plot Plan: [X] Attached, Document ID:_____ [ ] Not Applicable [ ] Waiver Requested **Figure 1-2 in Section I**
3. Process Flow Diagram(s): [X] Attached, Document ID:_____ [ ] Not Applicable [ ] Waiver Requested **See individual sections in Section III.**
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: [ ] Attached, Document ID:_____ [ ] Not Applicable [ ] Waiver Requested
5. Fugitive Emissions Identification: [X] Attached, Document ID:_____ [ ] Not Applicable [ ] Waiver Requested **See Introduction**
6. Supplemental Information for Construction Permit Application: [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

7. List of Proposed Exempt Activities: [X] Attached, Document ID:_____ [ ] Not Applicable **Section IV of Application.**
8. List of Equipment/Activities Regulated under Title VI: [X] Attached, Document ID: CB05 [ ] Equipment/Activities On site but Not Required to be Individually Listed [ ] Not Applicable
9. Alternative Methods of Operation: [X] Attached, Document ID:5402R067.700 (Introduction) [ ] Not Applicable
10. Alternative Modes of Operation (Emissions Trading): [X] Attached, Document ID: 5402R067.700 (Introduction) [ ] Not Applicable

12. Compliance Assurance Monitoring Plan:
[ ] Attached, Document ID:_____ [ ] Not Applicable **RESERVED**

13. Risk Management Plan Verification:

[ ] Plan Submitted to Implementing Agency - Verification Attached, Document ID:_____

[X] Plan to be Submitted to Implementing Agency by Required Date

[ ] Not Applicable

14. Compliance Report and Plan:
[X] Attached, Document ID: **CB01**[ ] Not Applicable

15. Compliance Certification (Hard-copy Required):
[X] Attached, Document ID:**CB02**[ ] Not Applicable

Coal Handling

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

Check one:

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section:
Coal Handling System
Fugitive emissions from the Coal Unloading Structure
Fugitive emissions from the Receiving Pile
Fugitive emissions from the Storage Pile
Fugitive emissions from the Unpaved Road (Coal Pile Traffic)
Fugitive emissions from the Reclaim Hopper
Fugitive emissions from the Transfer from Feeder #2 to Conveyor #3

2. ARMS Identification Number: [ ] No Corresponding ID [X] Unknown

3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: 49

6. Initial Startup Date (DD-MON-YYYY): **25-JAN-1994**

7. Long-term Reserve Shutdown Date (DD-MON-YYYY):

8. Package Unit:
Manufacturer: Model Number:

9. Generator Nameplate Rating: **MW**

10. Incinerator Information:
Dwell Temperature: °F
Dwell Time: seconds
Incinerator Afterburner Temperature : °F

11. Emissions Unit Comment:

Refer to PFD #5402-067-C1 at end of Coal Handling Section for the following description.

The coal unloading and coal stockout system is provided with a wet spray type dust suppression system designed to control coal dust emissions at the coal unloading hopper, coal unloading belt feeders 1A through 1F discharge chutes, coal conveyor #1 loading and discharge areas and coal conveyor #2 loading areas.

Emissions Unit Control Equipment

A.

1. Description: **Coal Unloading Building Enclosure (CF1)**
2. Control Device or Method Code: **054**

B.

1. Description: **Wet Suppression (CF1, CF2, CF3, CF7)**
2. Control Device or Method Code: **061**

C.

1. Description: **(CF1) Lowering Well (Partial Enclosure).** **Coal is lowered through a perforated chute (CF4).**
2. Control Device or Method Code: **054**

D.

1. Description: **Conveyor System enclosures.** **Belts and transfer points are enclosed unless otherwise noted.**
2. Control Device or Method Code: **054**

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

Segment Description and Rate: Segment **1** of **4**

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **Material Handling (Emissions related to tons throughput)**	
2. Source Classification Code (SCC): **3-05-010-08 to 3-05-010-17; 305410403.**	
3. SCC Units: Tons Handled	
4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0
6. Estimated Annual Activity Factor: **1,170,000**	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment: **The segment includes fugitive emissions due to material handling.**	

Segment Description and Rate: Segment 2 of 4

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **Material Handling - Wind Erosion - Emissions related to surface area exposed.**	
2. Source Classification Code (SCC): **3-05-010-08 to 3-05-010-17**	
3. SCC Units: **Square Meters**	
4. Maximum Hourly Rate: **0**	5. Maximum Annual Rate: **0**
6. Estimated Annual Activity Factor: **274.4 Sq. Meters**	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment: **This segment includes wind erosion on receiving pile.**	

Segment Description and Rate: Segment **3** of **4**

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **Material Handling - Wind Erosion - Emissions related to surface area exposed.**	
2. Source Classification Code (SCC): **3-05-010-08 to 3-05-010-17**	
3. SCC Units: **Square Meters**	
4. Maximum Hourly Rate: **0**	5. Maximum Annual Rate: **0**
6. Estimated Annual Activity Factor: **1,412.0 Sq. Meters**	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment: **This segment includes fugitive emissions due to wind erosion on 27-day storage pile.**	

Segment Description and Rate: Segment 4 of 4

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **Material Handling - Vehicle Activity - Emissions related to vehicle miles traveled.**	
2. Source Classification Code (SCC): **3-05-010-08 to 3-05-010-17**	
3. SCC Units: **Miles traveled.**	
4. Maximum Hourly Rate: **0**	5. Maximum Annual Rate: **0**
6. Estimated Annual Activity Factor: **6,539 Vehicle Miles Traveled.**	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment: **This segment includes fugitive emissions due to vehicle activity (coal pile traffic).**	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**054**	**061**	**WP**
PM10	**054**	**061**	**WP**

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:

PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:

PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment:

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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.

[ ] 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.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section:

Coal Handling System

Exhaust Vent from Coal Crusher Building (C1), Baghouse (1-BMC-DCO-1)

2. ARMS Identification Number: **06** [ ] No Corresponding ID [ ] Unknown

3. Emissions Unit Status Code: **A**	4. Acid Rain Unit? [ ] Yes [**X**] No	5. Emissions Unit Major Group SIC Code: **49**

6. Initial Startup Date (DD-MON-YYYY): **25-JAN-1994**

7. Long-term Reserve Shutdown Date (DD-MON-YYYY):

8. Package Unit:
Manufacturer: Model Number:

9. Generator Nameplate Rating: **MW**

10. Incinerator Information:
Dwell Temperature: °F
Dwell Time: seconds
Incinerator Afterburner Temperature : °F

11. Emissions Unit Comment:

The coal crusher house is equipped with a dust collection system. The dust collection system is designed to control dust emissions at coal conveyor #3 discharge chute/coal magnetic separator 1 enclosure, coal feeders 3A and 3B, coal crushers 1A and 1B and the loading skirtboard of coal conveyor #4.

Emissions Unit Control Equipment

A.

1. Description: **Coal Crusher Building Bag House** **Fabric Filter, Low Temp.** **1-BMC-DCO-1**
2. Control Device or Method Code: **018**

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate: **4,215 acfm.**		
4. Maximum Production Rate:		
5. Operating Capacity Comment:		

Emissions based on air flow and emission rate.

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

24	hours/day	7	days/week
52	weeks/year	8,760	hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711 no	Materials Handling, Sizing, Screening, Crushing, and Grinding Operations
F.A.C. 62-297.401 (5)	EPA Method 5
F.A.C. 62-297.401 (9)	EPA Method 9
F.A.C. 62-297.401 (17)	EPA Method 17
40 CFR 60.1-6	NSPS Applicability
40 CFR 60.7a	Notification and Recordkeeping
40 CFR 60.7b	Recordkeeping for Startup, Shutdown and Malfunction
40 CFR 60.7f	Recordkeeping Maintenance
40 CFR 60.7g	Notification to other Agencies
40 CFR 60.7h	Applicability
40 CFR 60.8	Performance Tests
40 CFR 60.9	Availability of Information
40 CFR 60.11	Compliance with Standards and Maintenance Requirements
40 CFR 60.250 (Subpart Y)	Standards of Performance for Coal Preparation Plants (Applicability)
40 CFR 60.251	Definitions
40 CFR 60.252 (c) no	Conveyance
40 CFR 60.254	Test methods

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: **C-1 Coal Crusher Building**	
2. Emission Point Type Code: [X] 1 [ ] 2 [ ] 3 [ ] 4	
3. Descriptions of Emissions Points Comprising this Emissions Unit:	
4 ID Numbers or Descriptions of Emission Units with this Emission Point in Common:	
5. Discharge Type Code: [ ] D [ ] F [ ] H [ ] P [ ] R [X] V [ ] W	
6. Stack Height:	**20** feet
7. Exit Diameter:	feet
8. Exit Temperature:	**77°F**
9. Actual Volumetric Flow Rate:	**4,215** acfm

10. Percent Water Vapor :	**1%**
11. Maximum Dry Standard Flow Rate:	**4,242** dscfm
12. Nonstack Emission Point Height:	feet
13. Emission Point UTM Coordinates: Zone: **0903** East (km): **441.61** North (km): **3365.80**	
14. Emission Point Comment:	

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **Material Handling, transfer points, crushing, emissions related to tons processed.**	
2. Source Classification Code (SCC): **305010010-**	
3. SCC Units: **TONS PROCESSED**	
4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0
6. Estimated Annual Activity Factor: **1,170,000 Tons Handled**	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment: **The segment includes emissions from baghouse exhaust vents, limited by permit, therefore, emissions are related to air flow rate.**	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**
PM10	**018**		**EL**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 1 of 2

1. Pollutant Emitted: **PM**	
2. Total Percent Efficiency of Control:	**>99%**
3. Primary Control Device Code: 018	
4. Secondary Control Device Code:	
5. Potential Emissions:	**0.11** lb/hour **0.48** tons/year
6. Synthetically Limited? [ ] Yes [X] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **0.003 gr/dscf** Reference: **PSD FL-137A**	
9. Emissions Method Code: [X] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5	
10. Calculation of Emissions: **See calculation for C1 at end of Coal Handling Section.**	
11. Pollutant Potential/Estimated Emissions Comment: **Emission rate limited to 0.003 gr/dscf.**	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **Other**		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: **0.003 gr/dscf**		
4. Equivalent Allowable Emissions:	**0.11** lb/hour	**0.48** tons/year
5. Method of Compliance: **Initial certification test.**		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **Permit allowable less than RULE.**		

Pollutant Potential/Estimated Emissions: Pollutant 2 of 2

1. Pollutant Emitted: **PM10**	
2. Total Percent Efficiency of Control:	**>99%**
3. Primary Control Device Code: 018	
4. Secondary Control Device Code:	
5. Potential Emissions: **0.11** lb/hour	**0.48** tons/year
6. Synthetically Limited? [ ] Yes [**X**] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **0.003 gr/dscf** Reference: **PSD FL-137A**	
9. Emissions Method Code: [**X**] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5	
10. Calculation of Emissions: **See calculation for C1 at end of Coal Handling Section.**	
11. Pollutant Potential/Estimated Emissions Comment: **Emission rate limited to 0.003 gr/dscf.**	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **Other**		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: **0.003 gr/dscf**		
4. Equivalent Allowable Emissions:	**0.11** lb/hour	**0.48** tons/year
5. Method of Compliance: **Initial certification test.**		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **Permit allowable less than RULE.**		

F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field 1. Most emissions units will be subject to a "subtype VE" limit only.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: **VE**	
2. Basis for Allowable Opacity:	[**X**] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: **5** % Maximum Period of Excess Opacity Allowed:	Exceptional Conditions: % min/hour
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment: **Based on permit number PSD-FL-137A**	

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:

PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:

PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment:

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

Supplemental Requirements for All Applications

1. Process Flow Diagram [**X**] Attached, Document ID: **5402-067-C1** [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [**X**] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [**X**] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [**X**] Not Applicable [**X**] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [x] Previously submitted, Date: **March 14, 1994** [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [**X**] Not Applicable
7. Operation and Maintenance Plan [**X**] Attached, Document ID: **CB04** [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [**X**] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [**X**] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Enhanced Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable **RESERVED.**

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [X] Not Applicable

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

Check one:

[**X**] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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.

[ ] 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.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section:
Coal Handling System

Exhaust Vent from Coal Silo Area (C2)

2. ARMS Identification Number: **007** [ ] No Corresponding ID [ ] Unknown

3. Emissions Unit Status Code: **A**	4. Acid Rain Unit? [ ] Yes [**X**] No	5. Emissions Unit Major Group SIC Code: **49**

6. Initial Startup Date (DD-MON-YYYY): **25-Jan-1994**

7. Long-term Reserve Shutdown Date (DD-MON-YYYY):

8. Package Unit:
Manufacturer: Model Number:

9. Generator Nameplate Rating: MW

10. Incinerator Information:
Dwell Temperature: °F
Dwell Time: seconds
Incinerator Afterburner Temperature : °F

11. Emissions Unit Comment:

The coal silo area baghouse controls emissions from the coal sample crusher, transfer from conveyor No. 4 to conveyor No. 5, conveyor No. 5 to conveyor No. 6, and to the silos.

Emissions Unit Control Equipment

A.

1. Description:
Coal Silo Area Dust Collector

Fabric Filter, low temp.
(C2) (1-CHF-DCO-2)

2. Control Device or Method Code: **018**

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate: **23,175 acfm.**		
4. Maximum Production Rate:		
5. Operating Capacity Comment: **Coal throughput of 1,170,000 tpy as limit.** **Emissions based on air flow rate and emission rate.**		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:			
	24	hours/day	7 days/week
	52	weeks/year	8,760 hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711 no	Materials Handling, Sizing, Screening, Crushing, and Grinding Operations
F.A.C. 62-297.401 (5)	EPA Method 5
F.A.C. 62-297.401 (9)	EPA Method 9
F.A.C. 62-297.401 (17)	EPA Method 17
40 CFR 60.1-6	NSPS Applicability
40 CFR 60.7a	Notification and Recordkeeping
40 CFR 60.7b	Recordkeeping for Startup, Shutdown and Malfunction
40 CFR 60.7f	Recordkeeping Maintenance
40 CFR 60.7g	Notification to other Agencies
40 CFR 60.7h	Applicability
40 CFR 60.8	Performance Tests
40 CFR 60.9	Availability of Information
40 CFR 60.11	Compliance with Standards and Maintenance Requirements
40 CFR 60.250 (Subpart Y)	Standards of Performance for Coal Preparation Plants (Applicability)
40 CFR 60.251	Definitions
40 CFR 60.252 (c) no	Conveyance
40 CFR 60.254	Test methods

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: **C2 COAL SILO AREA BAGHOUSE**
2. Emission Point Type Code: [X] 1 [ ] 2 [ ] 3 [ ] 4
3. Descriptions of Emissions Points Comprising this Emissions Unit:
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code: [ ] D [ ] F [X] H [ ] P [ ] R [ ] V [ ] W
6. Stack Height: feet
7. Exit Diameter: feet
8. Exit Temperature: 77°F

9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	**142** feet
13. Emission Point UTM Coordinates: Zone: **0903** East (km): **441.61** North (km): **3365.80**	
14. Emission Point Comment:	

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **Material Handling, transfer points, SCC emissions related to tons processed.**	
2. Source Classification Code (SCC): **30510103**	
3. SCC Units: **TONS PROCESSED**	
4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: **0**
6. Estimated Annual Activity Factor: **1,170,000 Tons Processed**	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment: **Emissions determined from air flow rate and exit concentration.**	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**
PM10	**018**		**EL**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 1 of 2

1. Pollutant Emitted: **PM**		
2. Total Percent Efficiency of Control:		**>99%**
3. Primary Control Device Code: 018		
4. Secondary Control Device Code:		
5. Potential Emissions:	**0.57** lb/hour	**0.80** tons/year
6. Synthetically Limited? [ ] Yes [X] No		
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year	
8. Emission Factor: **Reference: PSD-FL-137A**		
9. Emissions Method Code: [X] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5		
10. Calculation of Emissions: **See calculation for C2 at end of Coal Handing Section.**		
11. Pollutant Potential/Estimated Emissions Comment: **Limited to 0.003 gr/dscf.**		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **OTHER**	
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units: **0.003 gr/dscf**	
4. Equivalent Allowable Emissions:	**0.57** lb/hour **0.80** tons/year
5. Method of Compliance: Initial Certification Test.	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **Permit allowable less than RULE.**	

Pollutant Potential/Estimated Emissions: Pollutant 2 of 2

1. Pollutant Emitted: **PM10**		
2. Total Percent Efficiency of Control:		**>99%**
3. Primary Control Device Code: 018		
4. Secondary Control Device Code:		
5. Potential Emissions:	**0.57** lb/hour	**0.80** tons/year
6. Synthetically Limited? [ ] Yes [**X**] No		
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year	
8. Emission Factor: **Reference: PSD-FL-137A**		
9. Emissions Method Code: [**X**] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5		
10. Calculation of Emissions: **See calculation for C2 at end of Coal Handing Section.**		
11. Pollutant Potential/Estimated Emissions Comment: **Limited to 0.003 gr/dscf.**		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **OTHER**
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **0.003 gr/dscf**
4. Equivalent Allowable Emissions: **0.57** lb/hour **0.80** tons/year
5. Method of Compliance: Initial Certification Test.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **Permit allowable less than RULE.**

F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field 1. Most emissions units will be subject to a "subtype VE" limit only.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: **VE**	
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: **EPA method 9.**	
5. Visible Emissions Comment: **Based on permit number PSD-FL-137A**	

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:

PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:

PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment:

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID:5402-067-C1[ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: **March 15, 1994** [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [X] Attached, Document ID: **CB04** [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Enhanced Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable **RESERVED.**

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [X] Not Applicable

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

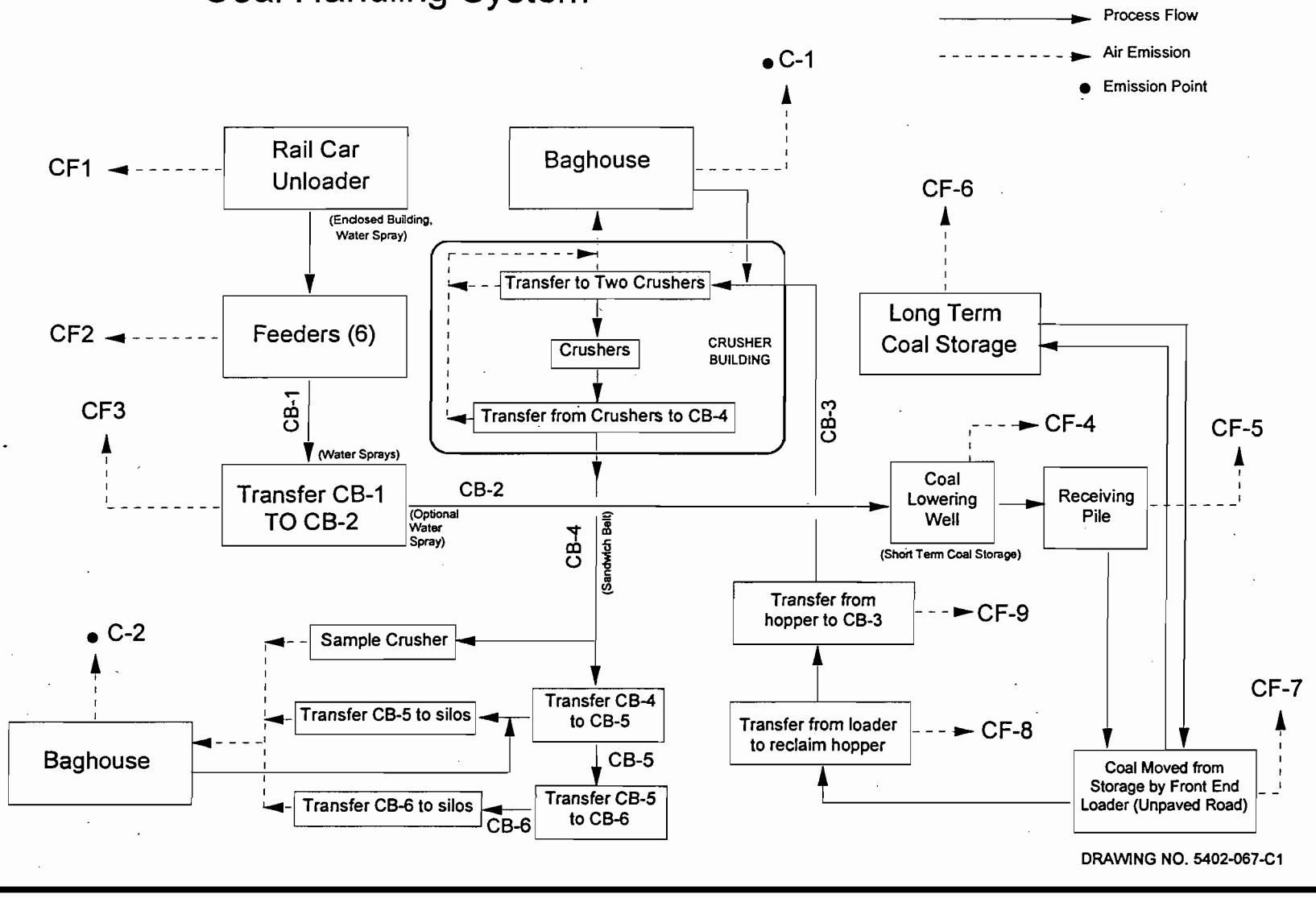
[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

Process Flow Diagram for Coal Handling System



Title V Cedar Bay Coal Handling Particulates (PM)

Estimated Potentials

$tpy := \frac{ton}{yr}$ $tph := \frac{ton}{hr}$ $week := 5 \cdot day$ $month := \frac{yr}{12}$ Assume front end loader can deliver 60 tph maximum.

$gr := \frac{lb}{7000}$ $acf := ft^3$ $dscf := ft^3$ $acfm := \frac{acf}{min}$ $dscfm := \frac{dscf}{min}$ $StdTemp := (460 + 68) \cdot R$

CF1: RAIL CAR UNLOADER, enclosed building, water spray (Previous DEP E.U. #20)
Ref: AP-42, 4th ed., 11.2.3

$k30 := 0.74$ Particles < 30 μm $k10 := 0.35$ Particles < 10 μm
$U := 7.8$ Mean wind speed, 7.8 mph
$M := 6$ Moisture, %, conservative value
$EffW := 70 \cdot \%$ Control Efficiency due to wetting
$EffE := 70 \cdot \%$ Control Efficiency due to enclosure

$QA := 390000 \cdot 3 \cdot tpy$ Permitted Annual Material Handled

$OPHR := 12 \cdot \frac{hr}{week} \cdot 52 \cdot \frac{week}{yr}$ $OPHR = 624 \cdot \frac{hr}{yr}$ for unloading.

$QH := \frac{QA}{OPHR}$ $QH = 1875 \cdot tph$ Average hourly material handled.

$QH := 2000 \cdot tph$ Hourly Material Handled, maximum. Note that each of 6 feeders can handle 150 to 500 tph. Sandwich belt can handle 2000 tph. Thus, the limiting factor is 2000 tph.

$QD := QH \cdot 12 \cdot \frac{hr}{week} \cdot \frac{week}{5 \cdot day}$ $QD = 4800 \cdot \frac{ton}{day}$

$$EF30 := k30 \cdot (0.0032) \cdot \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} \cdot \frac{lb}{ton} \qquad EF30 = 0.00091 \cdot \frac{lb}{ton}$$ TSP emission factor

$EF10 := EF30 \cdot \frac{k10}{k30}$ $EF10 = 0.00043 \cdot \frac{lb}{ton}$ PM10 emission factor

TSP	PM10
$QA \cdot EF30 \cdot (1 - EffW) \cdot (1 - EffE) = 0.04774 \cdot tpy$	$QA \cdot EF10 \cdot (1 - EffW) \cdot (1 - EffE) = 0.02258 \cdot tpy$
$QH \cdot EF30 \cdot (1 - EffW) \cdot (1 - EffE) = 0.16321 \cdot \frac{lb}{hr}$	$QH \cdot EF10 \cdot (1 - EffW) \cdot (1 - EffE) = 0.07719 \cdot \frac{lb}{hr}$
$QD \cdot EF30 \cdot (1 - EffW) \cdot (1 - EffE) = 0.3917 \cdot \frac{lb}{day}$	$QD \cdot EF10 \cdot (1 - EffW) \cdot (1 - EffE) = 0.18527 \cdot \frac{lb}{day}$

CF2: 6 COAL FEEDERS

Ref: AP-42, 4th ed., 11.2.3

k30 := 0.74 Particles < 30 μm k10 := 0.35 Particles < 10 μm

U := 7.8 Mean wind speed, 7.8 mph

M := 6 Moisture, %, conservative value

EffW := 70·% Control Efficiency due to wetting

EffE := 70·% Control Efficiency due to enclosure

$QA = 1170000 \cdot tpy$ $QH = 2000 \cdot tph$ $QD = 4800 \cdot \frac{ton}{day}$

$EF30 := k30 \cdot (0.0032) \cdot \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} \cdot \frac{lb}{ton}$ $EF30 = 0.00091 \cdot \frac{lb}{ton}$ TSP emission factor

$EF10 := EF30 \cdot \frac{k10}{k30}$ $EF10 = 0.00043 \cdot \frac{lb}{ton}$ PM10 emission factor

TSP	PM10
$QA \cdot EF30 \cdot (1 - EffW) \cdot (1 - EffE) = 0.04774 \cdot tpy$	$QA \cdot EF10 \cdot (1 - EffW) \cdot (1 - EffE) = 0.02258 \cdot tpy$
$QH \cdot EF30 \cdot (1 - EffW) \cdot (1 - EffE) = 0.16321 \cdot \frac{lb}{hr}$	$QH \cdot EF10 \cdot (1 - EffW) \cdot (1 - EffE) = 0.07719 \cdot \frac{lb}{hr}$
$QD \cdot EF30 \cdot (1 - EffW) \cdot (1 - EffE) = 0.3917 \cdot \frac{lb}{day}$	$QD \cdot EF10 \cdot (1 - EffW) \cdot (1 - EffE) = 0.18527 \cdot \frac{lb}{day}$

CF3: TRANSFER FROM BELT 1 TO BELT 2, water spray

Ref: AP-42, 4th ed., 11.2.3

k30 := 0.74 Particles < 30 μm k10 := 0.35 Particles < 10 μm

U := 7.8 Mean wind speed, 7.8 mph

M := 6 Moisture, %, conservative value

EffW := 70·% Control Efficiency due to wetting

EffE := 70·% Control Efficiency due to enclosure

$QA = 1170000 \cdot tpy$ $QH = 2000 \cdot tph$ $QD = 4800 \cdot \frac{ton}{day}$

$EF30 := k30 \cdot (0.0032) \cdot \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} \cdot \frac{lb}{ton}$ $EF30 = 0.00091 \cdot \frac{lb}{ton}$ TSP emission factor

$EF10 := EF30 \cdot \frac{k10}{k30}$ $EF10 = 0.00043 \cdot \frac{lb}{ton}$ PM10 emission factor

TSP	PM10
$QA \cdot EF30 \cdot (1 - EffW) \cdot (1 - EffE) = 0.04774 \cdot tpy$	$QA \cdot EF10 \cdot (1 - EffW) \cdot (1 - EffE) = 0.02258 \cdot tpy$
$QH \cdot EF30 \cdot (1 - EffW) \cdot (1 - EffE) = 0.16321 \cdot \frac{lb}{hr}$	$QH \cdot EF10 \cdot (1 - EffW) \cdot (1 - EffE) = 0.07719 \cdot \frac{lb}{hr}$
$QD \cdot EF30 \cdot (1 - EffW) \cdot (1 - EffE) = 0.3917 \cdot \frac{lb}{day}$	$QD \cdot EF10 \cdot (1 - EffW) \cdot (1 - EffE) = 0.18527 \cdot \frac{lb}{day}$

CF4: TRANSFER TO RECEIVING PILE VIA LOWERING WELL, partial enclosure
Ref: AP-42, 4th ed., 11.2.3

k30 := 0.74 Particles < 30 μm k10 := 0.35 Particles < 10 μm
U := 7.8 Mean wind speed, 7.8 mph
M := 6 Moisture, %, conservative value
Eff := 50·% Control Efficiency due to partial enclosure offered by lowering well

$QA = 1170000 \cdot tpy$ $QH = 2000 \cdot tph$ $QD = 4800 \cdot \frac{ton}{day}$

$EF30 := k30 \cdot (0.0032) \cdot \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} \cdot \frac{lb}{ton}$ $EF30 = 0.00091 \cdot \frac{lb}{ton}$ TSP emission factor

$EF10 := EF30 \cdot \frac{k10}{k30}$ $EF10 = 0.00043 \cdot \frac{lb}{ton}$ PM10 emission factor

TSP	PM10
$QA \cdot EF30 \cdot (1 - Eff) = 0.26522 \cdot tpy$	$QA \cdot EF10 \cdot (1 - Eff) = 0.12544 \cdot tpy$
$QH \cdot EF30 \cdot (1 - Eff) = 0.90672 \cdot \frac{lb}{hr}$	$QH \cdot EF10 \cdot (1 - Eff) = 0.42885 \cdot \frac{lb}{hr}$
$QD \cdot EF30 \cdot (1 - Eff) = 2.17613 \cdot \frac{lb}{day}$	$QD \cdot EF10 \cdot (1 - Eff) = 1.02925 \cdot \frac{lb}{day}$

CF5: WIND EROSION FROM RECEIVING PILE

$Surface := 2287 \cdot m^2$ Assumes same surface area as for Cedar Bay Cogeneration Project Air Quality Analysis, February 1993

From AP-42, Table 11.2.7-3, Dated 9/90:

Us:Ur Ratio	% of Total Area	Area (m^2)
0.2	40	$40 \cdot \% \cdot Surface = 914.8 \cdot m^2$
0.6	48	$48 \cdot \% \cdot Surface = 1097.76 \cdot m^2$
0.9	12	$12 \cdot \% \cdot Surface = 274.44 \cdot m^2$

$Surface := 12 \cdot \% \cdot Surface$ $Surface = 274.44 \cdot m^2$

Determination of Pi

$Pi := 3.835 \cdot \frac{gm}{m^2}$ (for Coal Pile, Ref. Cedar Bay Cogeneration Project Air Quality Analysis, February 1993)

TSP Emissions

$TSP := Pi \cdot (Surface)$ $TSP = 1052.4774 \cdot gm$

Assuming pile disturbed daily with equal erosion potential each day:

$$E := 1.0 \cdot \frac{1}{yr} \cdot \sum_{i=1}^{365} TSP \qquad E = 0.09662 \cdot \frac{lb}{hr}$$

$$\frac{18 \cdot hr}{yr} \cdot E = 0.0008696 \cdot tpy$$

CF6: WIND EROSION FROM 27-DAY STORAGE PILE

$Surface := 10086 \cdot m^2$ Assumes same surface area as Cedar Bay Cogeneration Project Air Quality Analysis, February 1993

From AP-42, Table 11.2.7-3, Dated 9/90:

Us:Ur Ratio	% of Total Area	Area (m^2)
0.2	36	$36 \cdot \% \cdot Surface = 3630.96 \cdot m^2$
0.6	50	$50 \cdot \% \cdot Surface = 5043 \cdot m^2$
0.9	14	$14 \cdot \% \cdot Surface = 1412.04 \cdot m^2$

$Surface := 14 \cdot \% \cdot Surface$ $Surface = 1412.04 \cdot m^2$

Determination of Pi

$Pi := 3.835 \cdot \frac{gm}{m^2}$ (for Coal Pile, Ref. Cedar Bay Cogeneration Project Air Quality Analysis, February 1993)

TSP Emissions

$TSP := Pi \cdot (Surface)$ $TSP = 5415.1734 \cdot gm$

Assuming pile disturbed daily with equal erosion potential each day:

$$E := 1.0 \cdot \frac{1}{yr} \cdot \sum_{i=1}^{365} TSP \qquad E = 0.49711 \cdot \frac{lb}{hr}$$

$$\frac{18 \cdot hr}{yr} \cdot E = 0.004474 \cdot tpy$$

CF7: UNPAVED ROAD, Coal Pile Traffic by Front End Loader

Annual vehicle miles traveled per 1993 AQA, based on 1,030,570 tpy coal, is 5,760 mi/yr. Scaling to 1,170,000 yields:

$$VMT := 5760 \cdot \frac{mi}{yr} \cdot \frac{1170000}{1030570} \qquad VMT = 6539 \cdot \frac{mi}{yr}$$

k := 0.8 particle size multiplier, TSP. Use 0.36 for PM10 (AP-42)
s := 2.2 silt content
S := 1.5 mean vehicle speed
W := 30 mean vehicle weight, ton
w := 4 mean number of wheels
p := 115 mean number days > 0.01 in. precipitation
Eff := 75·% Control by wetting

For TSP,

$$E := 5.9 \cdot k \cdot \frac{s}{12} \cdot \frac{S}{30} \cdot \left(\frac{W}{3}\right)^{0.7} \cdot \left(\frac{w}{4}\right)^{0.5} \cdot \frac{365 - p}{365} \cdot \frac{lb}{mi} \qquad E = 0.14853 \cdot \frac{lb}{mi}$$

$$VMT \cdot E \cdot (1 - Eff) = 0.12141 \cdot tpy \qquad 1.5 \cdot \frac{mi}{hr} \cdot E \cdot (1 - Eff) = 0.0557 \cdot \frac{lb}{hr}$$

For PM10, k := 0.36

$$E := 5.9 \cdot k \cdot \frac{s}{12} \cdot \frac{S}{30} \cdot \left(\frac{W}{3}\right)^{0.7} \cdot \left(\frac{w}{4}\right)^{0.5} \cdot \frac{365 - p}{365} \cdot \frac{lb}{mi} \qquad E = 0.06684 \cdot \frac{lb}{mi}$$

$$VMT \cdot E \cdot (1 - Eff) = 0.05463 \cdot tpy \qquad 1.5 \cdot \frac{mi}{hr} \cdot E \cdot (1 - Eff) = 0.02506 \cdot \frac{lb}{hr}$$

CF8: TRANSFER LOADER TO RECLAIM HOPPER, no control
Ref: AP-42, 4th ed., 11.2.3

$k30 := 0.74$ Particles < 30 μm $k10 := 0.35$ Particles < 10 μm
$U := 7.8$ Mean wind speed, 7.8 mph
$M := 6$ Moisture, %, conservative value
$Eff := 70 \cdot \%$ Control Efficiency due to enclosure
$QA = 1170000 \cdot tpy$ Annual Material Handled

$OPHR := 8 \cdot \frac{hr}{day} \cdot 93 \cdot \%$ $OPHR = 2717 \cdot \frac{hr}{yr}$ Normal $OPHR := 12 \cdot 365 \cdot \frac{hr}{yr}$ $OPHR = 4380 \cdot \frac{hr}{yr}$

Thus, the conservative number for hourly fugitive emissions calc's is: $OPHR := 2717 \cdot \frac{hr}{yr}$

$QH := \frac{QA}{OPHR}$ $QH = 430.6 \cdot tph$ $QD := QH \cdot 8 \cdot \frac{hr}{day}$ $QD = 3445 \cdot \frac{ton}{day}$

$$EF30 := k30 \cdot (0.0032) \cdot \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} \cdot \frac{lb}{ton} \qquad EF30 = 0.00091 \cdot \frac{lb}{ton}$$ TSP emission factor

$EF10 := EF30 \cdot \frac{k10}{k30}$ $EF10 = 0.00043 \cdot \frac{lb}{ton}$ PM10 emission factor

TSP	PM10
$QA \cdot EF30 \cdot (1 - Eff) = 0.15913 \cdot tpy$	$QA \cdot EF10 \cdot (1 - Eff) = 0.07526 \cdot tpy$
$QH \cdot EF30 \cdot (1 - Eff) = 0.11714 \cdot \frac{lb}{hr}$	$QH \cdot EF10 \cdot (1 - Eff) = 0.0554 \cdot \frac{lb}{hr}$
$QD \cdot EF30 \cdot (1 - Eff) = 0.93709 \cdot \frac{lb}{day}$	$QD \cdot EF10 \cdot (1 - Eff) = 0.44322 \cdot \frac{lb}{day}$

CF9: TRANSFER FEEDER RECLAIM HOPPER TO CONVEYOR 3
Ref: AP-42, 4th ed., 11.2.3

k30 := 0.74 Particles < 30 μm k10 := 0.35 Particles < 10 μm
U := 7.8 Mean wind speed, 7.8 mph
M := 6 Moisture, %, conservative value
Eff := 70·% Control Efficiency due to enclosure

$QA = 1170000 \cdot tpy$ $QH = 430.6 \cdot tph$ $QD = 3445 \cdot \frac{ton}{day}$

$EF30 := k30 \cdot (0.0032) \cdot \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} \cdot \frac{lb}{ton}$ $EF30 = 0.00091 \cdot \frac{lb}{ton}$ TSP emission factor

$EF10 := EF30 \cdot \frac{k10}{k30}$ $EF10 = 0.00043 \cdot \frac{lb}{ton}$ PM10 emission factor

TSP	PM10
$QA \cdot EF30 \cdot (1 - Eff) = 0.15913 \cdot tpy$	$QA \cdot EF10 \cdot (1 - Eff) = 0.07526 \cdot tpy$
$QH \cdot EF30 \cdot (1 - Eff) = 0.11714 \cdot \frac{lb}{hr}$	$QH \cdot EF10 \cdot (1 - Eff) = 0.0554 \cdot \frac{lb}{hr}$
$QD \cdot EF30 \cdot (1 - Eff) = 0.93709 \cdot \frac{lb}{day}$	$QD \cdot EF10 \cdot (1 - Eff) = 0.44322 \cdot \frac{lb}{day}$

C1: BAGHOUSE FOR COAL CRUSHER BUILDING ACTIVITIES (controls two transfer points, CB-3 to crushers, crushers to CB-4.) (DEP E.U. #06)

	Parameters:	References:
Flow Rate	ACFM := 4215·acfm	BHA design 14,338 acfm; (tested @ 4215 acfm)
Moisture%	Moist := 1.26·%	Test deemed more reliable than design spec.
Exit Temperature	T := (460 + 58)·R	Interpoll 3/14/94 test
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR := \frac{8760 \cdot hr}{yr}$	Per permit, although average is about 10-12 hr/day.

Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 4242 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 0.109 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 0.4778 \cdot tpy \qquad E \cdot \frac{12 \cdot hr}{day} = 1.309 \cdot \frac{lb}{day}$$

C2: BAGHOUSE FOR POWER BLOCK COAL HANDLING (controls Sample Crusher, Transfer CB-4 to CB-5, transfers to silos. (DEP E.U. #07)

	Parameters:	References:
Flow Rate	ACFM := 23175·acfm	BHA design 23,175 acfm; (test 23,154 acfm)
Moisture%	Moist := 1.45·%	Interpoll 3/15/94 test
Exit Temperature	T := (460 + 81)·R	Interpoll 3/15/94 test
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR = 8760 \cdot \frac{hr}{yr}$	Averages 10 to 12 hrs per day operation.

Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 22290 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 0.573 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 2.511 \cdot tpy \qquad E \cdot \frac{12 \cdot hr}{day} = 6.878 \cdot \frac{lb}{day}$$

Limestone Handling

Emissions Unit Information Section 4 of 34

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

Check one:

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section:
   Limestone Handling System
   Fugitive emissions from Limestone Delivery
   Fugitive emissions from Limestone Dump
   Fugitive emissions from Limestone Pile
   Fugitive emissions from Reclaim by Mobile Loader
   Fugitive emissions from Dozer Traps

2. ARMS Identification Number: [ ] No Corresponding ID [X] Unknown

3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [x] No	5. Emissions Unit Major Group SIC Code: 49

6. Initial Startup Date (DD-MON-YYYY): **25-Jan-1994**

7. Long-term Reserve Shutdown Date (DD-MON-YYYY):

8. Package Unit:
   Manufacturer: Model Number:

9. Generator Nameplate Rating: **MW**

10. Incinerator Information:
    Dwell Temperature: °F
    Dwell Time: seconds
    Incinerator Afterburner Temperature : °F

11. Emissions Unit Comment:

Emissions Unit Control Equipment

A.

1. Description: **Watering of Paved and Unpaved Roads**
2. Control Device or Method Code: **061**

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

Segment Description and Rate: Segment 1 of 4

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **Wind erosion from Storage Pile, emissions related to square meters exposed surface.**	
2. Source Classification Code (SCC): **30502507**	
3. SCC Units: **ACRES EXPOSED SURFACE**	
4. Maximum Hourly Rate: **0**	5. Maximum Annual Rate **0**
6. Estimated Annual Activity Factor: **0.06 Acres**	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment: **Emissions based on exposed surface area, available to wind erosion.**	

Segment Description and Rate: Segment 2 of 4

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **Transfer Operations**	
2. Source Classification Code (SCC): **30501106**	
3. SCC Units: **Tons Handled**	
4. Maximum Hourly Rate: **0**	5. Maximum Annual Rate: **0**
6. Estimated Annual Activity Factor: **320,000 tpy**	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment:	

Segment Description and Rate: Segment 3 of 4

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **Paved Roads**	
2. Source Classification Code (SCC): **80300834**	
3. SCC Units: **Vehicles Miles Traveled**	
4. Maximum Hourly Rate: **0**	5. Maximum Annual Rate: **0**
6. Estimated Annual Activity Factor: **2,662 VMT**	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment:	

Segment Description and Rate: Segment 4 of 4

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **Unpaved Roads**	
2. Source Classification Code (SCC): **30500519**	
3. SCC Units: **Vehicle Miles Traveled**	
4. Maximum Hourly Rate: **0**	5. Maximum Annual Rate: **0**
6. Estimated Annual Activity Factor: **1,290 VMT**	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment:	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**061**		**WP**
PM10	**061**		**WP**

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:		
PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment:

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

Check one:

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated group of process or production units and activities which has at least one definable emission point (stack or vent).

[ ] 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.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section:
Limestone Handling System

Exhaust from combined emission unit Aragonite Drying System (ADS) (1-BMC-FLT - 1A) and (H3MC-FLT-1B)

2. ARMS Identification Number: [ ] No Corresponding ID [X] Unknown

3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [x] No	5. Emissions Unit Major Group SIC Code: 49

6. Initial Startup Date (DD-MON-YYYY): **25-Jan-1994**

7. Long-term Reserve Shutdown Date (DD-MON-YYYY):

8. Package Unit:
Manufacturer: Model Number:

9. Generator Nameplate Rating: MW

10. Incinerator Information:
Dwell Temperature: °F
Dwell Time: seconds
Incinerator Afterburner Temperature : °F

11. Emissions Unit Comment:

E.U. 004, E.U. 008, E.U. 005 and E.U. 024 are combined because 004 and 008 share a common stack, as do 005 and 024, and PM, PM10 emission sources cannot be distinguished between "emission units" currently identified separately. Furthermore, there is an emission limit on the current permit based on the total operating hours for these units.

Emissions Unit Control Equipment

A.

1. Description: **ADS Fabric Filter 1A and 1B** **Fabric Filter - Temp. Medium**
2. Control Device or Method Code: 017

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate: **350,400 gal/yr and 42,100 dscfm**		
4. Maximum Production Rate:		
5. Operating Capacity Comment: **PSD-FL-137A limits oil combustion to 350,400gal/yr/dryer.** **May not exceed 8,030 hr/yr for both ADS, or 42,100 dscfm each baghouse..**		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:		
22	hours/day	7 days/week
52	weeks/year	8,030 hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711 NO	**Materials Handling, Sizing, Screening, Crushing, and Grinding Operations**
F.A.C. 62-297.401 (5)	**EPA Method 5**
F.A.C. 62-297.401 (9)	**EPA Method 9**
F.A.C. 62-297.401 (17)	**EPA Method 17**
40 CFR 60.1-6	**NSPS Applicability**
40 CFR 60.7a	**Notification and Recordkeeping**
40 CFR 60.7b	**Recordkeeping for Startup, Shutdown and Malfunction**
40 CFR 60.7f	**Recordkeeping Maintenance**
40 CFR 60.7g	**Notification to other Agencies**
40 CFR 60.7h	**Applicability**
40 CFR 60.8	**Performance Tests**
40 CFR 60.9	**Availability of Information**
40 CFR 60.11	**Compliance with Standards and Maintenance Requirements**
40 CFR 60.670 (subpart OOO) CASE	**NSPS Nonmetallic Mineral Processing Plants - Applicability**
40 CFR 60.671	**Definitions**
40 CFR 60.672	**Particulate Matter**
40 CFR 60.673	**Reconstruction**
40-CFR 60.675	**Test Methods**
40 CFR 60.676	**Reporting & Recordkeeping**

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: **LA-1 ADS Building Exhaust A**	
2. Emission Point Type Code: [ ] 1 [ ] 2 [X] 3 [ ] 4	
3. Descriptions of Emissions Points Comprising this Emissions Unit: **LA-1 ADS Building Exhaust A 1-BMC-FLT-1A** **LB-1 ADS Building Exhaust B 1-BMC-FLT-1B**	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: **Previous assigned E.U.004, 008, 005, 024**	
5. Discharge Type Code: [ ] D [ ] F [ ] H [ ] P [ ] R [X] V [ ] W	
6. Stack Height:	**62.98** feet
7. Exit Diameter:	**4.17** feet
8. Exit Temperature:	**195**°F
9. Actual Volumetric Flow Rate: **(98,000 acfm for both)**	**49,000** acfm each

10. Percent Water Vapor :	**4%**
11. Maximum Dry Standard Flow Rate: **(84,200 dscfm combined)**	**42,100** dscfm each
12. Nonstack Emission Point Height:	feet
13. Emission Point UTM Coordinates: Zone: **0903** East (km): **441.66** North (km): **3365.68**	
14. Emission Point Comment: **The ADS fabric filters are equipped with membrane-lined fabric bags that are cleaned by a pulse controlled on a timer.**	

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

Segment Description and Rate: Segment **1** of **2**

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **No. 2 Diesel Combustion, emissions related to 1,000 gallons burned.**	
2. Source Classification Code (SCC): 30590001	
3. SCC Units: **1,000 GALLONS BURNED**	
4. Maximum Hourly Rate: **0.12**	5. Maximum Annual Rate: **350 each (701 combined)**
6. Estimated Annual Activity Factor: **350**	
7. Maximum Percent Sulfur: **0.05%**	8. Maximum Percent Ash:
9. Million Btu per SCC Unit: **140**	
10. Segment Comment: **Represent totals for both ADS.**	

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **Materials Handling, Crushing, emissions related to tons processed.**	
2. Source Classification Code (SCC): **30501631**	
3. SCC Units: **TONS PROCESSED**	
4. Maximum Hourly Rate: **110 TONS**	5. Maximum Annual Rate: **320,000 TONS**
6. Estimated Annual Activity Factor: **320,000 TONS**	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment: **Represents totals for both ADS.**	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**017**		**EL**
PM10	**017**		**EL**
SO_2			**EL**
NO_X			**EL**
VOC			**EL**
CO			**EL**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 1 of 6

1. Pollutant Emitted: **PM**		
2. Total Percent Efficiency of Control:		**>99%**
3. Primary Control Device Code: **017**		
4. Secondary Control Device Code:		
5. Potential Emissions:	**1.1** lb/hour	**4.3** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No		
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____	tons/year
8. Emission Factor: **0.003 gr/dscf** Reference: **PSD-FL-137A**		
9. Emissions Method Code: [**X**] 1 [ ] 2 [x] 3 [ ] 4 [ ] 5		
10. Calculation of Emissions: **See calculation for LA-1 at end of Limestone Handling Section.**		
11. Pollutant Potential/Estimated Emissions Comment: **Operating hours for LA1 and LB1 cannot exceed 8,030 hr/yr combined.**		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **OTHER**	
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units: **0.003 gr/dscf**	
4. Equivalent Allowable Emissions:	**1.1** lb/hour **4.3** tons/year
5. Method of Compliance: **Initial Certification Test.**	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **Permit allowable is less than RULE.** **LA1 and LB1 cannot exceed 8,030 hours combined.**	

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 2 of 6

1. Pollutant Emitted: **PM10**		
2. Total Percent Efficiency of Control		**>99%**
3. Primary Control Device Code: **017**		
4. Secondary Control Device Code:		
5. Potential Emissions:	**1.1** lb/hour	**4.3** tons/year
6. Synthetically Limited? [X] Yes [ ] No		
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____	tons/year
8. Emission Factor: **0.003 gr/dscf** Reference: **PSD-FL-137A**		
9. Emissions Method Code: [X] 1 [ ] 2] 3 [ ] 4 [ ] 5		
10. Calculation of Emissions: **PM10 = PM.**		
11. Pollutant Potential/Estimated Emissions Comment: **Limit to 8,030 hr/yr for both ADS.**		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **OTHER**		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: **0.003 gr/dscf.**		
4. Equivalent Allowable Emissions:	**1.1** lb/hour	**4.3** tons/year
5. Method of Compliance: **One-time test, Method 5.**		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **Limit to 8,030 hr/yr for both ADS combined.**		

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 3 of 6

1. Pollutant Emitted: **SO_2**		
2. Total Percent Efficiency of Control:		%
3. Primary Control Device Code:		
4. Secondary Control Device Code:		
5. Potential Emissions:	**1.7** lb/hour	**2.5** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No		
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____	tons/year
8. Emission Factor: **7.1 LB/1,000 gal.** **Reference: AP-42**		
9. Emissions Method Code: [ ] 1 [ ] 2 [**X**] 3 [ ] 4 [ ] 5		
10. Calculation of Emissions: **See calculation for LA-1 at end of Limestone Handling Section.**		
11. Pollutant Potential/Estimated Emissions Comment: **Limit to 350,400 gal/yr, and 120 gal/hr.**		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **OTHER**		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:		
4. Equivalent Allowable Emissions:	**1.7** lb/hour	**2.5** tons/year
5. Method of Compliance: • **Calculation based on actual gallons burned.**		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): • **Fuel oil limited to 350,400 gallons/yr and 120 gal/hour each dryer.**		

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 4 of 6

1. Pollutant Emitted: **NO_x**		
2. Total Percent Efficiency of Control:		%
3. Primary Control Device Code:		
4. Secondary Control Device Code:		
5. Potential Emissions:	**4.8** lb/hour	**7.0** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No		
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year	
8. Emission Factor: **20 lb/1,000 gallons burned.** **Reference: AP-42.**		
9. Emissions Method Code: [ ] 1 [ ] 2 [**X**] 3 [ ] 4 [ ] 5		
10. Calculation of Emissions: **See calculation for LA-1 at end of Limestone Handling Section.**		
11. Pollutant Potential/Estimated Emissions Comment: **Limited to 350,400 gal/yr and 120 gal/hr each dryer.**		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **OTHER**		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:		
4. Equivalent Allowable Emissions:	**4.8** lb/hour	**7.8** tons/year
5. Method of Compliance: **Calculation based on actual gallons burned, AP42.**		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **Limited to 350,400 gal/yr and 120 gal/hr each dryer.**		

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 5 of 6

1. Pollutant Emitted: **CO**		
2. Total Percent Efficiency of Control:		%
3. Primary Control Device Code:		
4. Secondary Control Device Code:		
5. Potential Emissions:	**1.2** lb/hour	**1.8** tons/year
6. Synthetically Limited? [X] Yes [ ] No		
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____	tons/year
8. Emission Factor: **5 lb/1,000 gal. burned.** **Reference: AP-42**		
9. Emissions Method Code: [ ] 1 [ ] 2 [X] 3 [ ] 4 [ ] 5		
10. Calculation of Emissions: **See calculation for LA-1 at end of Limestone Handling Section.**		
11. Pollutant Potential/Estimated Emissions Comment: **Limited to 350,400 gal/yr and 120 gph each dryer.**		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **OTHER**		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:		
4. Equivalent Allowable Emissions:	**1.2** lb/hour	**1.8** tons/year
5. Method of Compliance: **Calculation based on actual gallons burned, AP42.**		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **Limited to 350,400 gal/yr and 120 gal/hr each dryer.**		

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 6 of 6

1. Pollutant Emitted: **VOC**		
2. Total Percent Efficiency of Control:		%
3. Primary Control Device Code:		
4. Secondary Control Device Code:		
5. Potential Emissions:	**0.13** lb/hour	**0.19** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No		
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____	tons/year
8. Emission Factor: **0.556 lb/1,000 gal. burned.** **Reference: AP-42**		
9. Emissions Method Code: [ ] 1 [ ] 2 [**X**] 3 [ ] 4 [ ] 5		
10. Calculation of Emissions: **See calculation for LA-1 at end of Limetone Handling Section.**		
11. Pollutant Potential/Estimated Emissions Comment: **Limited to 350,400 gal/yr and 120 gal/hr each dryer.**		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **OTHER**		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:		
4. Equivalent Allowable Emissions:	**0.13** lb/hour	**0.19** tons/year
5. Method of Compliance: **Calculation based on actual gal. burned, AP42.**		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **Limited to 350,400 gal/yr and 120 gal/hr each dryer.**		

F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field 1. Most emissions units will be subject to a "subtype VE" limit only.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: **VE**
2. Basis for Allowable Opacity: [ ] Rule [X] Other
3. Requested Allowable Opacity: Normal Conditions: **5 %** Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour
4. Method of Compliance: **Method 9.**
5. Visible Emissions Comment: **PSD-FL-137A.**

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[X] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[X] C	[ ] E	[ ] Unknown
NO2	[X] C	[ ] E	[ ] Unknown
4. Baseline Emissions:			
PM		lb/hour	tons/year
SO2		lb/hour	tons/year
NO2			tons/year
5. PSD Comment:			

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID: 5402-067-L1 [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [x] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [x] Previously submitted, Date: **March 11, 1994** [ ] Not Applicable
6. Procedures for Startup and Shutdown [X] Attached, Document ID: **CB03** [ ] Not Applicable
7. Operation and Maintenance Plan [X] Attached, Document ID: **CB04** [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Enhanced Monitoring Plan
[ ] Attached, Document ID:_____ [X] Not Applicable **RESERVED.**

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [X] Not Applicable

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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.

[ ] 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.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section:
Limestone Handling System

Exhaust from Limestone Storage Bin Vent A, LA-2

2. ARMS Identification Number: **009** [ ] No Corresponding ID [ ] Unknown

3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: 49

6. Initial Startup Date (DD-MON-YYYY): **25-Jan-1994**

7. Long-term Reserve Shutdown Date (DD-MON-YYYY):

8. Package Unit:
Manufacturer: Model Number:

9. Generator Nameplate Rating: MW

10. Incinerator Information:
Dwell Temperature: °F
Dwell Time: seconds
Incinerator Afterburner Temperature : °F

11. Emissions Unit Comment:

Emissions Unit Control Equipment

A.

1. Description: **Limestone Hopper Vent Filters** **Fabric Filter, Low Temp.** **1-BMC-FLT-1**
2. Control Device or Method Code: **018**

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate: **6,840 acfm**		
4. Maximum Production Rate:		
5. Operating Capacity Comment: **Tested 3-16-94.**		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

24 hours/day	7 days/week
52 weeks/year	8,760 hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711	**Materials Handling, Sizing, Screening, Crushing, and Grinding Operations**
F.A.C. 62-297.401 (5)	**EPA Method 5**
F.A.C. 62-297.401 (9)	**EPA Method 9**
F.A.C. 62-297.401 (17)	**EPA Method 17**
40 CFR 60.1-6	**NSPS Applicability**
40 CFR 60.7a	**Notification and Recordkeeping**
40 CFR 60.7b	**Recordkeeping for Startup, Shutdown and Malfunction**
40 CFR 60.7f	**Recordkeeping Maintenance**
40 CFR 60.7g	**Notification to other Agencies**
40 CFR 60.7h	**Applicability**
40 CFR 60.8	**Performance Tests**
40 CFR 60.9	**Availability of Information**
40 CFR 60.11	**Compliance with Standards and Maintenance Requirements**
40 CFR 60.670 (Subpart OOO)	**NSPS Applicability**
40 CFR 60.671	**Definitions**
40 CFR 60.672	**Standard for PM**
40 CFR 60.673	**Reconstruction**
40 CFR 60.675	**Test Methods**

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: **LA-2 Limestone Storage**	
2. Emission Point Type Code: [X] 1 [ ] 2 [ ] 3 [ ] 4	
3. Descriptions of Emissions Points Comprising this Emissions Unit: **LA-2 Limestone Storage Bin A, Baghouse 1-BMC-FLT-1**	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:	
5. Discharge Type Code: [X] D [ ] F [ ] H [ ] P [ ] R [ ] V [ ] W	
6. Stack Height:	feet
7. Exit Diameter:	feet
8. Exit Temperature:	**102**°F
9. Actual Volumetric Flow Rate:	**6,840** acfm

10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	**90** feet
13. Emission Point UTM Coordinates: Zone: **0903** East (km): **441.67** North (km): **3365.60**	
14. Emission Point Comment:	

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **Material Handling, Transfer into Silos, Baghouse Dust Collector, emissions related to tons processed.**	
2. Source Classification Code (SCC): **30510205**	
3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **110 tph**	5. Maximum Annual Rate: **320,000 tpy**
6. Estimated Annual Activity Factor: **160,000 ton/yr**	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment: **For 1-BMC-FLT-1, 6,840 acfm**	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**
PM10	**018**		**EL**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 1 of 2

1. Pollutant Emitted: **PM**		
2. Total Percent Efficiency of Control:		**>99%**
3. Primary Control Device Code: **018**		
4. Secondary Control Device Code:		
5. Potential Emissions:	**0.16** lb/hour	**0.71** tons/year
6. Synthetically Limited? [ ] Yes [**X**] No		
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year	
8. Emission Factor: **0.003 gr/dscf** **Reference: PSD-FL-137A**		
9. Emissions Method Code: [**X**] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5		
10. Calculation of Emissions: **See calculation for LA-2 at end of Limestone Handling Section.**		
11. Pollutant Potential/Estimated Emissions Comment:		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **OTHER**
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **0.003 gr/dscf**
4. Equivalent Allowable Emissions: **0.16** lb/hour **0.71** tons/year
5. Method of Compliance: **Initial Certification Test, Method 5.**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **Permit allowable less than RULE.**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 2 of 2

1. Pollutant Emitted: **PM10**		
2. Total Percent Efficiency of Control:		**>99%**
3. Primary Control Device Code: **018**		
4. Secondary Control Device Code:		
5. Potential Emissions:	**0.16** lb/hour	**0.71** tons/year
6. Synthetically Limited? [ ] Yes [**X**] No		
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year	
8. Emission Factor: **0.003 gr/dscf** **Reference: PSD-FL-137A**		
9. Emissions Method Code: [**X**] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5		
10. Calculation of Emissions: **Assume PM10 = PM.**		
11. Pollutant Potential/Estimated Emissions Comment:		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **OTHER**		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: **0.003 gr/dscf**		
4. Equivalent Allowable Emissions:	**0.16** lb/hour	**0.71** tons/year
5. Method of Compliance: **Initial Certification Test, Method 5.**		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **Permit allowable less than RULE.**		

F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field 1. Most emissions units will be subject to a "subtype VE" limit only.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: **VE**	
2. Basis for Allowable Opacity:	[ ] Rule [x] Other
3. Requested Allowable Opacity: Normal Conditions: **5 %** Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **EPA Method 9.**	
5. Visible Emissions Comment: **PSD-FL-137A.**	

TRACKING INFORMATION

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:

PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:

PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment:

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID: 5402-067-L1 [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: **March 16, 1994** [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [X] Attached, Document ID: **CB04** [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Enhanced Monitoring Plan
[ ] Attached, Document ID:_____ [X] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [X] Not Applicable

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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.

[ ] 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.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section:
Limestone Handling System

LB2 exhaust from Limestone Storage Bin Vent B (1 BMC-FLT-2)

2. ARMS Identification Number: **025** [ ] No Corresponding ID [ ] Unknown

3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [**X**] No	5. Emissions Unit Major Group SIC Code: 49

6. Initial Startup Date (DD-MON-YYYY): **25-Jan-1994**

7. Long-term Reserve Shutdown Date (DD-MON-YYYY):

8. Package Unit:
Manufacturer: Model Number:

9. Generator Nameplate Rating: MW

10. Incinerator Information:
Dwell Temperature: °F
Dwell Time: seconds
Incinerator Afterburner Temperature : °F

11. Emissions Unit Comment:

Emissions Unit Control Equipment

A.

1. Description:
Limestone Hopper Vent Filter

1-ASF-FLT-2 OR BMC-FLT-2

Fabric Filter, Low Temp.

2. Control Device or Method Code: **018**

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate: **6,993 acfm**		
4. Maximum Production Rate:		
5. Operating Capacity Comment: **Tested 3-17-94.**		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

24 hours/day	7 days/week
52 weeks/year	8,760 hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711	Materials Handling, Sizing, Screening, Crushing, and Grinding Operations
F.A.C. 62-297.401 (5)	EPA Method 5
F.A.C. 62-297.401 (9)	EPA Method 9
F.A.C. 62-297.401 (17)	EPA Method 17
40 CFR 60.1-6	NSPS Applicability
40 CFR 60.7a	Notification and Recordkeeping
40 CFR 60.7b	Recordkeeping for Startup, Shutdown and Malfunction
40 CFR 60.7f	Recordkeeping Maintenance
40 CFR 60.7g	Notification to other Agencies
40 CFR 60.7h	Applicability
40 CFR 60.8	Performance Tests
40 CFR 60.9	Availability of Information
40 CFR 60.11	Compliance with Standards and Maintenance Requirements
40 CFR 60.670 (Subpart OOO)	NSPS Applicability
40 CFR 60.671	Definitions
40 CFR 60.672	Standard for PM
40 CFR 60.673	Reconstruction
40 CFR 60.675	Test Methods

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: **LB-2 Limestone Storage Bin Vent 1 and 2 Exhaust**	
2. Emission Point Type Code: [X] 1 [ ] 2 [ ] 3 [ ] 4	
3. Descriptions of Emissions Points Comprising this Emissions Unit: **LB-2 Limestone Storage Bin B**	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:	
5. Discharge Type Code: [X] D [ ] F [ ] H [ ] P [ ] R [ ] V [ ] W	
6. Stack Height:	feet
7. Exit Diameter:	feet
8. Exit Temperature:	**89**°F
9. Actual Volumetric Flow Rate:	**6,993** acfm

10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	**90** feet
13. Emission Point UTM Coordinates: Zone: **0903** East (km): **441.67** North (km): **3365.60**	
14. Emission Point Comment:	

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **Material Handling, Transfer into Silo, Baghouse Dust Collector (emissions related to tons processed).**	
2. Source Classification Code (SCC): **30510205**	
3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **110 tph**	5. Maximum Annual Rate: **320,000 tpy**
6. Estimated Annual Activity Factor: **160,000 tpy**	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment:	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**
PM10	**018**		**EL**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 1 of 2

1. Pollutant Emitted: **PM**		
2. Total Percent Efficiency of Control:		**>99%**
3. Primary Control Device Code: **018**		
4. Secondary Control Device Code:		
5. Potential Emissions:	**0.17** lb/hour	**0.75** tons/year
6. Synthetically Limited? [ ] Yes [**X**] No		
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year	
8. Emission Factor: **0.003 gr/dscf** Reference: **PSD-FL-137A**		
9. Emissions Method Code: [**X**] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5		
10. Calculation of Emissions: **See calculation for LB-2 at end of Limestone Handling Section.**		
11. Pollutant Potential/Estimated Emissions Comment:		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **OTHER**		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: **0.003 gr/dscf**		
4. Equivalent Allowable Emissions:	**0.17** lb/hour	**0.75** tons/year
5. Method of Compliance: **Initial Certification Test, Method 5.**		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **Permit Allowable less than RULE.**		

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 2 of 2

1. Pollutant Emitted: **PM10**		
2. Total Percent Efficiency of Control:		**>99%**
3. Primary Control Device Code: **018**		
4. Secondary Control Device Code:		
5. Potential Emissions:	**0.17** lb/hour	**0.75** tons/year
6. Synthetically Limited? [ ] Yes [**X**] No		
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year	
8. Emission Factor: **0.003 gr/dscf** **Reference: PSD-FL-137**		
9. Emissions Method Code: [**X**] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5		
10. Calculation of Emissions: **See calculation for LB-2 at end of Limestone Handling Section.**		
11. Pollutant Potential/Estimated Emissions Comment:		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **OTHER**
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **0.003 gr/dscf**
4. Equivalent Allowable Emissions: **0.17** lb/hour **0.75** tons/year
5. Method of Compliance: **Initial Certification Test, Method 5.**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **Permit allowable less than RULE.**

F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field 1. Most emissions units will be subject to a "subtype VE" limit only.

Visible Emissions Limitation: Visible Emissions Limitation **1** of **1**

1. Visible Emissions Subtype: **VE**	
2. Basis for Allowable Opacity:	[ ] Rule [**X**] Other
3. Requested Allowable Opacity: Normal Conditions: 5 % Maximum Period of Excess Opacity Allowed:	Exceptional Conditions: % min/hour
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment: **PSD-FL-137A**	

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:		
PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment:

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID: 5402-067-L1 [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: **March 17, 1994** [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [X] Attached, Document ID: **CB04** _____ [*] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [**X**] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [**X**] Not Applicable

12. Enhanced Monitoring Plan
[ ] Attached, Document ID:_____ [**X**] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [ ] Not Applicable **RESERVED**

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[**X**] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

Check one:

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated group of process or production units and activities which has at least one definable emission point (stack or vent).

[ ] 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.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section:
Limestone Handling System

Exhaust from six Bin Feeder vent filters, L1 through L6.

2. ARMS Identification Number: [X] No Corresponding ID [ ] Unknown

3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [x] No	5. Emissions Unit Major Group SIC Code: 49

6. Initial Startup Date (DD-MON-YYYY): **25-Jan-1994**

7. Long-term Reserve Shutdown Date (DD-MON-YYYY):

8. Package Unit:
Manufacturer: Model Number:

9. Generator Nameplate Rating: MW

10. Incinerator Information:
Dwell Temperature: °F
Dwell Time: seconds
Incinerator Afterburner Temperature : °F

11. Emissions Unit Comment:

Emissions Unit Control Equipment

A.

1. Description: **Limestone Feeder Vent Filters 1 through 6** **(1SGH-FLT-1A1, -1A2, -1B1, -1B2, -1C1, -1C2)** **Fabric Filter, Low Temp.**
2. Control Device or Method Code: **018**

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate: **365 acfm each.**		
4. Maximum Production Rate:		
5. Operating Capacity Comment: **Design Rate.**		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

24 hours/day	7 days/week
52 weeks/year	8,760 hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711	**Materials Handling, Sizing, Screening, Crushing, and Grinding Operations**
F.A.C. 62-297.401 (5)	**EPA Method 5**
F.A.C. 62-297.401 (9)	**EPA Method 9**
F.A.C. 62-297.401 (17)	**EPA Method 17**
40 CFR 60.1-6	**NSPS Applicability**
40 CFR 60.7a	**Notification and Recordkeeping**
40 CFR 60.7b	**Recordkeeping for Startup, Shutdown and Malfunction**
40 CFR 60.7f	**Recordkeeping Maintenance**
40 CFR 60.7g	**Notification to other Agencies**
40 CFR 60.7h	**Applicability**
40 CFR 60.8	**Performance Tests**
40 CFR 60.9	**Availability of Information**
40 CFR 60.11	**Compliance with Standards and Maintenance Requirements**
40 CFR 60.670 (Subpart OOO)	**NSPS Applicability**
40 CFR 60.671	**Definitions**
40 CFR 60.672	**Standard for PM**
40 CFR 60.673	**Reconstruction**
40 CFR 60.675	**Test Methods**

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: **L1, L2, L3, L4, L5 and L6 Feeder Vent Filters**	
2. Emission Point Type Code: [ ] 1 [ ] 2 [X] 3 [ ] 4	
3. Descriptions of Emissions Points Comprising this Emissions Unit: **Rotary feeder vent filters (L1-L6)**	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:	
5. Discharge Type Code: [ ] D [ ] F [X] H [ ] P [ ] R [ ] V [ ] W	
6. Stack Height:	feet
7. Exit Diameter:	feet
8. Exit Temperature	**77**°F
9. Actual Volumetric Flow Rate:	**365** acfm

10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	**50** feet
13. Emission Point UTM Coordinates: Zone: East (km): North (km):	
14. Emission Point Comment:	

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **Material Handling, 6 Transfer Points, Filters (Emissions related to Tons Processed).**	
2. Source Classification Code (SCC): **30510205**	
3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **110 ton combined**	5. Maximum Annual Rate: **320,000 ton combined**
6. Estimated Annual Activity Factor: **53,333 ton**	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment:	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**
PM10	**018**		**EL**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 1 of 2

1. Pollutant Emitted: **PM**		
2. Total Percent Efficiency of Control:		**99%**
3. Primary Control Device Code:		
4. Secondary Control Device Code:		
5. Potential Emissions:	**0.054** lb/hour	**0.24** tons/year
6. Synthetically Limited? [ ] Yes [**X**] No		
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year	
8. Emission Factor: **0.003 gr/dscf** Reference: **PSD-FL-137A**		
9. Emissions Method Code: [**X**] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5		
10. Calculation of Emissions: **See calculation for L1-L6 at end of Limestone Handling Section.**		
11. Pollutant Potential/Estimated Emissions Comment:		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **OTHER**
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **0.003 gr/dscf**
4. Equivalent Allowable Emissions: **0.054** lb/hour **0.24** tons/year
5. Method of Compliance: **Initial Certification Test, Method 5.**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **Permit allowable less than RULE.**

Pollutant Potential/Estimated Emissions: Pollutant 2 of 2

1. Pollutant Emitted: **PM10**		
2. Total Percent Efficiency of Control:		**99%**
3. Primary Control Device Code:		
4. Secondary Control Device Code:		
5. Potential Emissions:	**0.054** lb/hour	**0.24** tons/year
6. Synthetically Limited? [ ] Yes [**X**] No		
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year	
8. Emission Factor: **0.003 gr/dscf** Reference: **PSD-FL-137A**		
9. Emissions Method Code: [**X**] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5		
10. Calculation of Emissions: **See calculation for L1-L6 at end of Limestone Handling Section.**		
11. Pollutant Potential/Estimated Emissions Comment:		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **OTHER**	
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units: **0.003 gr/dscf**	
4. Equivalent Allowable Emissions:	**0.054** lb/hour **0.24** tons/year
5. Method of Compliance: **Initial Certification Test, Method 5.**	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **Permit allowable less than RULE.**	

F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field 1. Most emissions units will be subject to a "subtype VE" limit only.

Visible Emissions Limitation: Visible Emissions Limitation **1** of **1**

1. Visible Emissions Subtype: **VE**	
2. Basis for Allowable Opacity:	[ ] Rule [**X**] Other
3. Requested Allowable Opacity: Normal Conditions: **5 %** Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: **EPA Method 9**	
5. Visible Emissions Comment: **PSD-FL-137A**	

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:

PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:

PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment:

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID: 5402-067-L1 [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: **March 1994** [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [X] Attached, Document ID: **CB04** [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Enhanced Monitoring Plan
[ ] Attached, Document ID:_____ [X] Not Applicable **RESERVED**

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [X] Not Applicable

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

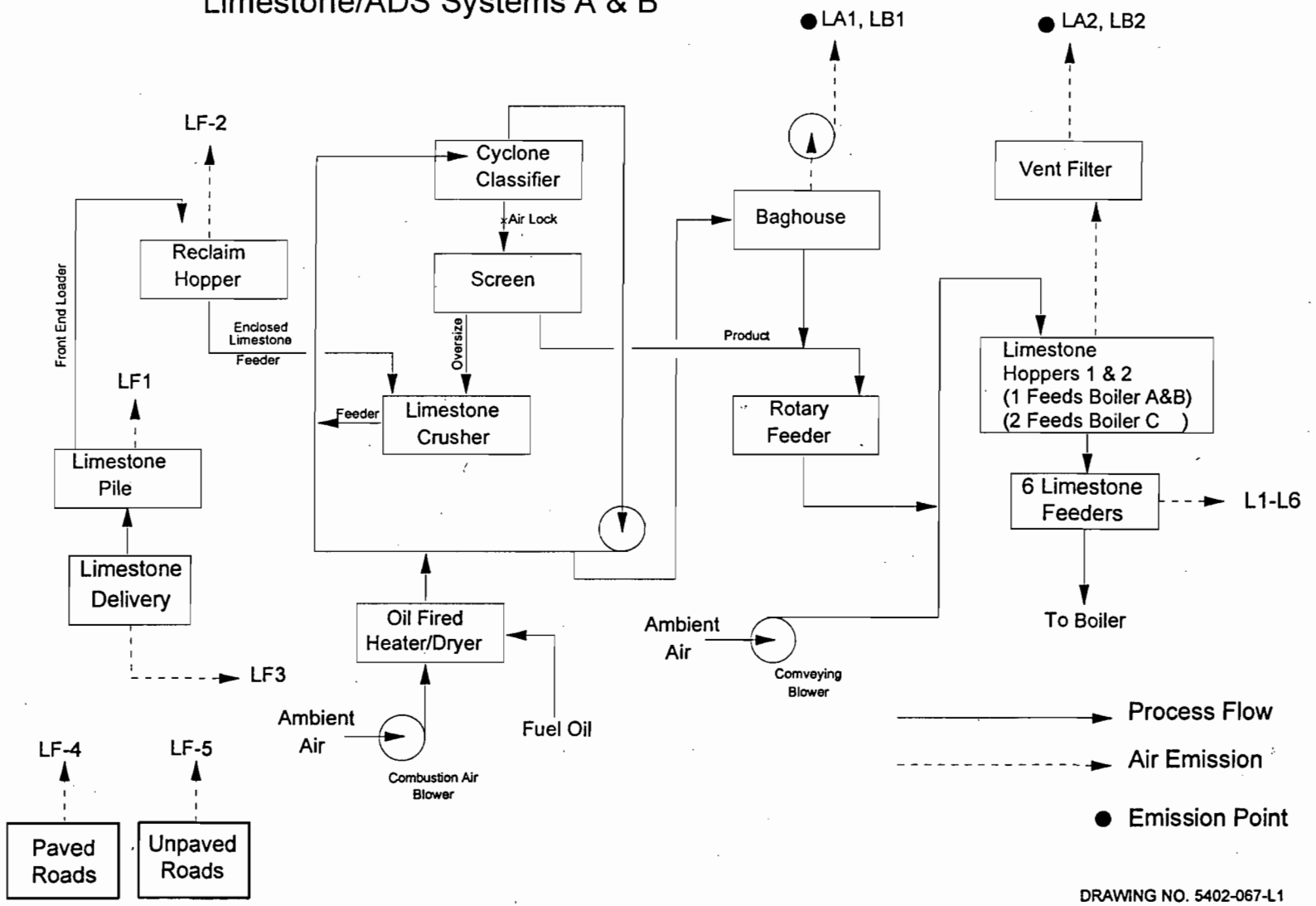
[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

Typical Process Flow Diagram for Limestone/ADS Systems A & B



Title V Cedar Bay ADS

Estimated Potential Emissions. *Limestone refers to limestone, aragonite, or other calcium source material.*

$tpy := \frac{ton}{yr}$ $tph := \frac{ton}{hr}$ $week := 5 \cdot day$ $month := \frac{yr}{12}$

$gr := \frac{lb}{7000}$ $acf := ft^3$ $dscf := ft^3$ $acfm := \frac{acf}{min}$ $dscfm := \frac{dscf}{min}$ $StdTemp := (460 + 68) \cdot R$

LF1: LIMESTONE PILE WIND EROSION

$Surface := 1793 \cdot m^2$ Assumes same pile surface area as 1993 AQA, therefore conservative.

From AP-42, Table 11.2.7-3, Dated 9/90:

Us:Ur Ratio	% of Total Area	Area (m^2)
0.2	36	$36 \cdot \% \cdot Surface = 645.48 \cdot m^2$
0.6	50	$50 \cdot \% \cdot Surface = 896.5 \cdot m^2$
0.9	14	$14 \cdot \% \cdot Surface = 251.02 \cdot m^2$

$Surface := 14 \cdot \% \cdot Surface$ $Surface = 251.02 \cdot m^2$

Determination of Pi

$Pi := 3.835 \cdot \frac{gm}{m^2}$ (for Coal Pile, Ref. Cedar Bay Cogeneration Project Air Quality Analysis, February 1993

$SiltRatio := \frac{1.6}{2.2}$ $SiltRatio = 0.72727$ Ratio limestone to coal

$Pi := Pi \cdot SiltRatio$ $Pi = 2.78909 \cdot \frac{gm}{m^2}$

TSP Emissions

$TSP := Pi \cdot (Surface)$ $TSP = 700.12 \cdot gm$

Assuming pile disturbed daily with equal erosion potential each day:

$$E := 1.0 \cdot \frac{1}{yr} \cdot \sum_{i=1}^{365} TSP \qquad E = 0.06427 \cdot \frac{lb}{hr} \qquad \frac{18 \cdot hr}{yr} \cdot E = 0.0005784 \cdot tpy$$

For PM10, k=0.5, therefore

$$E \cdot 0.5 = 0.03214 \cdot \frac{lb}{hr} \qquad 18 \cdot \frac{hr}{yr} \cdot E \cdot \frac{0.5}{1} = 0.000289 \cdot tpy$$

LF2: TRANSFER TO RECLAIM HOPPER (dozer trap)
Ref: AP-42, 4th ed., 11.2.3

k30 := 0.74 Particles < 30 μm k10 := 0.35 Particles < 10 μm
U := 7.8 Mean wind speed, 7.8 mph
M := (100 - 93.915) M = 6.085 Moisture, % from TSI Analysis, Oct. 8, 1993

$QA := 320000 \cdot \frac{ton}{yr}$ Permitted Annual Material Handled

$OPHR := 2920 \cdot \frac{hr}{yr}$ PSD analysis operating hours

$QH := \frac{QA}{OPHR}$ $QH = 110 \cdot tph$ Hourly potential, likely will process less aragonite in more hours, based on 1994 operations.

$EF30 := k30 \cdot (0.0032) \cdot \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} \cdot \frac{lb}{ton}$ $EF30 = 0.00089 \cdot \frac{lb}{ton}$ TSP emission factor

$EF10 := EF30 \cdot \frac{k10}{k30}$ $EF10 = 0.00042 \cdot \frac{lb}{ton}$ PM10 emission factor

TSP	PM10
$QA \cdot EF30 = 0.14225 \cdot tpy$	$QA \cdot EF10 = 0.06728 \cdot tpy$
$QH \cdot EF30 = 0.09743 \cdot \frac{lb}{hr}$	$QH \cdot EF10 = 0.04608 \cdot \frac{lb}{hr}$

LF3: DELIVERY TO LIMESTONE PILE
Ref: AP-42, 4th ed., 11.2.3

k30 := 0.74 Particles < 30 μm k10 := 0.35 Particles < 10 μm
U := 7.8 Mean wind speed, 7.8 mph
M = 6.085 Moisture, %, conservative value

$QA = 320000 \cdot tpy$ $QH = 110 \cdot tph$

$EF30 := k30 \cdot (0.0032) \cdot \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} \cdot \frac{lb}{ton}$ $EF30 = 0.00089 \cdot \frac{lb}{ton}$ TSP emission factor

$EF10 := EF30 \cdot \frac{k10}{k30}$ $EF10 = 0.00042 \cdot \frac{lb}{ton}$ PM10 emission factor

TSP	PM10
$QA \cdot EF30 = 0.14225 \cdot tpy$	$QA \cdot EF10 = 0.06728 \cdot tpy$
$QH \cdot EF30 = 0.09743 \cdot \frac{lb}{hr}$	$QH \cdot EF10 = 0.04608 \cdot \frac{lb}{hr}$

LF4: PAVED ROADS

$VMT := 619 \cdot \frac{mi}{yr}$ Annual vehicle miles traveled, round trip, used in 1993 AQA

Scale to Potential quantity handled (1993 AQA 74,400 tpy)

$VMT := VMT \cdot \frac{QA}{74400 \cdot tpy}$ $VMT = 2662.4 \cdot \frac{mi}{yr}$

TSP

$I := 1.0$ Industrial Augmentation Factor, AP-42, 11.2.6.3
$n := 2$ Number of traffic lanes
$s := 12.5$ Surface material silt content, %
$L := 1750$ Surface dust loading

$W := 50$ Vehicle weight, tons loaded

$E1 := 0.077 \cdot (I) \cdot \left(\frac{4}{n}\right) \cdot \left(\frac{s}{10}\right) \cdot \left(\frac{L}{1000}\right) \cdot \left(\frac{W}{3}\right)^{0.7} \cdot \frac{lb}{mi}$ $E1 = 2.41414 \cdot \frac{lb}{mi}$

$W := 20$ Vehicle weight, tons empty

$E := 0.077 \cdot (I) \cdot \left(\frac{4}{n}\right) \cdot \left(\frac{s}{10}\right) \cdot \left(\frac{L}{1000}\right) \cdot \left(\frac{W}{3}\right)^{0.7} \cdot \frac{lb}{mi}$ $E = 1.27117 \cdot \frac{lb}{mi}$

$E := E + E1$ $E = 3.68532 \cdot \frac{lb}{mi}$

$EffW := 70 \cdot \%$ Control Efficiency due to wetting

$E \cdot VMT \cdot (1 - EffW) = 1.47175 \cdot tpy$ $E \cdot 1.64 \cdot mph \cdot (1 - EffW) = 1.81318 \cdot \frac{lb}{hr}$

PM10

$k := 0.22$ particle size multiplier, PM10 (AP-42)
$sL := 0.35$ Road surface silt loading, oz/yd²

$E := k \cdot (3.5) \cdot \left(\frac{sL}{0.35}\right)^{0.3} \cdot \frac{lb}{mi}$ $E = 0.77 \cdot \frac{lb}{mi}$

$E \cdot VMT \cdot (1 - EffW) = 0.3075 \cdot tpy$ $E \cdot 1.64 \cdot mph \cdot (1 - EffW) = 0.37884 \cdot \frac{lb}{hr}$

LF5: UNPAVED ROADS

$VMT := 300 \cdot \frac{mi}{yr}$ Annual vehicle miles traveled, used in 1993 AQA

Scale to Potential quantity handled (1993 AQA 74,400 tpy)

$VMT := VMT \cdot \frac{QA}{74400 \cdot tpy}$ $VMT = 1290.3 \cdot \frac{mi}{yr}$

$k := 0.8$ particle size multiplier, TSP. Use 0.36 for PM10 (AP-42)
$s := 1.6$ silt content
$S := 1.5$ mean vehicle speed
$W := 30$ mean vehicle weight, ton
$w := 4$ mean number of wheels
$p := 115$ mean number days > 0.01 in. precipitation
$Eff := 75 \cdot \%$ Control by wetting

For TSP,

$$E := 5.9 \cdot k \cdot \frac{s}{12} \cdot \frac{S}{30} \cdot \left(\frac{W}{3}\right)^{0.7} \cdot \left(\frac{w}{4}\right)^{0.5} \cdot \frac{365 - p}{365} \cdot \frac{lb}{mi} \qquad E = 0.10802 \cdot \frac{lb}{mi}$$

$$VMT \cdot E \cdot (1 - Eff) = 0.01742 \cdot tpy \qquad 1.5 \cdot \frac{mi}{hr} \cdot E \cdot (1 - Eff) = 0.04051 \cdot \frac{lb}{hr}$$

For PM10, $k := 0.36$

$$E := 5.9 \cdot k \cdot \frac{s}{12} \cdot \frac{S}{30} \cdot \left(\frac{W}{3}\right)^{0.7} \cdot \left(\frac{w}{4}\right)^{0.5} \cdot \frac{365 - p}{365} \cdot \frac{lb}{mi} \qquad E = 0.04861 \cdot \frac{lb}{mi}$$

$$VMT \cdot E \cdot (1 - Eff) = 0.00784 \cdot tpy \qquad 1.5 \cdot \frac{mi}{hr} \cdot E \cdot (1 - Eff) = 0.01823 \cdot \frac{lb}{hr}$$

LA1, LB1 BAGHOUSES FOR CLASSIFIERS/DRYERS
1-BMC-FLT-1A and 1-BMC-FLT-1B

DEP E.U. #004 AND #008 = LA1
DEP E.U. #005 AND #024 = LB1

Cedar Bay Limestone Dryers

$tpy := \frac{ton}{yr}$ $tph := \frac{ton}{hr}$ $gr := \frac{lb}{7000}$ $acf := ft^3$ $acfm := \frac{acf}{min}$ $dscf := ft^3$ $dscfm := \frac{dscf}{min}$

Combustion of Distillate No. 2 Fuel Oil

AP-42, 4th edition emission factors

EF_SO2 = 142*S (lb)/(10^3 gal), where S is wt% Sulfur

$$EF\_NOx := 20 \cdot \frac{lb}{10^3 \cdot gal}$$

$$EF\_CO := 5 \cdot \frac{lb}{10^3 \cdot gal} \qquad EF\_VOC := 0.556 \cdot \frac{lb}{10^3 \cdot gal}$$

Weight% S by permit is $PermitFO2S\% := 0.05\ \%$

Weight% S used at Cedar Bay

$$EF\_SO2 := 142 \cdot PermitFO2S\% \cdot \frac{lb}{10^3 \cdot gal} \qquad EF\_SO2 = 7.1 \cdot \frac{lb}{10^3 \cdot gal}$$

Scale Estimated Oil Use by ratio of 1994 Oil / 1994 Aragonite x Permitted Limestone
(Fuel/aragonite = 1.9 gal/ton)

$$PermGPY := 350400 \cdot 2 \cdot \frac{gal}{yr} \qquad PermGPH := 120 \cdot 2 \cdot \frac{gal}{hr}$$

$$PermGPY = 700800 \cdot \frac{gal}{yr} \qquad PermGPH = 240 \cdot \frac{gal}{hr}$$

Permitted Potential Emissions (Note that PM and PM10 are restricted by baghouse limit of 0.003 gr/dscf, see following discussion. The permit restriction for PM and PM10 based on oil combustion should be removed, since the combustion gas passes through the same baghouse as the pulverizer exhaust, thus PM is indistinguishable between the two sources.):

TPY

SO2 := EF_SO2·PermGPY
SO2 = 2.48784 •tpy

NOx := EF_NOx·PermGPY
NOx = 7.008 •tpy

CO := EF_CO·PermGPY
CO = 1.752 •tpy

VOC := EF_VOC·PermGPY
VOC = 0.19482 •tpy

LB/HR

SO2 := EF_SO2·PermGPH
$SO2 = 1.704 \cdot \frac{lb}{hr}$

NOx := EF_NOx·PermGPH
$NOx = 4.8 \cdot \frac{lb}{hr}$

CO := EF_CO·PermGPH
$CO = 1.2 \cdot \frac{lb}{hr}$

VOC := EF_VOC·PermGPH
$VOC = 0.13344 \cdot \frac{lb}{hr}$

Particulates are limited by baghouses (LA1, LB1):

LA1, LB1: CLASSIFIER SYSTEM/LIMESTONE DRYER BAGHOUSE (1BMC-FLT-1A, 1BMC-FLT-1B)

	Parameters:	References:
Flow Rate	SCFM := 42100·dscfm	Permit modification, PSD-FL-137(C).II.B.12.
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR := 8030 \cdot \frac{hr}{yr}$	Permit modification, PSD-FL-137(C).II.B.1, combination for both baghouses, however, either ADS train may operate 8030 hr/yr.

Potential Emissions by permit:

E := SCFM·ER $E = 1.08257 \cdot \frac{lb}{hr}$ OPHR·E = 4.34652 •tpy

LA2: FEEDER HOPPER VENT FILTERS (1ASF-FLT-1 or 1BMC-FLT-1) (DEP E.U. #009)

Parameters:		References:
Flow Rate	ACFM := 6840·acfm	BHA design Flow Rate 6400 acfm; Tested 6840.
Moisture%	Moist := 2.00·%	Interpoll 3-16-94
Exit Temperature	T := (460 + 102)·R	Interpoll 3-16-94
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit
Operating Hours	$OPHR := 8760 \cdot \frac{hr}{yr}$	

Estimated Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 6297.7 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 0.16194 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 0.7093 \cdot tpy$$

LB2: FEEDER HOPPER VENT FILTER (1ASF-FLT-2 or 1BMC-FLT-2) (DEP E.U.#025)

Parameters:		References:
Flow Rate	ACFM := 6993·acfm	BHA design Flow Rate 6400 acfm; Tested 6993 .
Moisture%	Moist := 0.99·%	Interpoll 3-17-94
Exit Temperature	T := (460 + 89)·R	Interpoll 3-17-94
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit
Operating Hours	$OPHR := 8760 \cdot \frac{hr}{yr}$	

Estimated Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 6658.9 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 0.17123 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 0.74999 \cdot tpy$$

L1-L6: FEEDER VENT FILTERS ON PULVERIZER SYSTEM (6 VENT FILTERS)
(1SGH-FLT-1A1; -1A2; -1B1; -1B2; -1C1; and -1C2)

Parameters:		References:
Flow Rate	$ACFM := 365 \cdot acfm$	BHA design Flow Rate (tested 123 acfm highest)
Moisture%	$Moist := 1.17 \cdot \%$	Tested 1.17% lowest Interpoll March 1994
Exit Temperature	$T := (460 + 85) \cdot R$	
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR := 8760 \cdot \frac{hr}{yr}$	

Estimated Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 349.5 \cdot dscfm$$

$E := SCFM \cdot ER$ $\qquad E = 0.00899 \cdot \frac{lb}{hr}$ $\qquad OPHR \cdot E = 0.03936 \cdot tpy$ EACH VENT FILTER

$6 \cdot E = 0.05392 \cdot \frac{lb}{hr}$ $\qquad 6 \cdot E \cdot OPHR = 0.23617 \cdot tpy$ TOTAL FOR 6 FILTERS

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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.

[ ] 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.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section:

Circulating Fluidized Bed (CFB) boiler A with limestone injection for SO_2 emissions reduction, Ammonia injection for NO_x emissions reduction. Fuel is primarily bituminous coal with No. 2 fuel oil for startup. Combustion products are flue gas with fly ash and bed ash.

2. ARMS Identification Number: **001** [ ] No Corresponding ID [ ] Unknown

3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: 49

6. Initial Startup Date (DD-MON-YYYY): **25-JAN-1994**

7. Long-term Reserve Shutdown Date (DD-MON-YYYY): N/A

8. Package Unit:
Manufacturer: Model Number:

9. Generator Nameplate Rating: 90 MW per PID drawing

10. Incinerator Information:
Dwell Temperature: °F
Dwell Time: seconds
Incinerator Afterburner Temperature : °F

11. Emissions Unit Comment:

Emissions Unit Control Equipment

A.

1. Description: **Baghouse**

   efficiency = 1 - emission / load = 0.0055 gr/acf / 19.5 gr/acf = 99.97%

2. Control Device or Method Code: **016**

B.

1. Description: **Ammonia injection**

   Efficiency = 54% for NO_x (est.)

2. Control Device or Method Code: **032/107**

C.

1. Description: **Dry limestone injection**

   Efficiency from 89 to 95% based on Quarterly Report Dated 4-1-94 to 4-26-96

2. Control Device or Method Code: **041**

Emissions Unit Control Equipment

D.

1. Description: **Air Preheater**

   Reduction Efficiency not determined.
   Intake air is preheated via flue gas to reduce fuel requirements.

2. Control Device or Method Code: **027**

E

1. Description: **Control of Oxygen**

   Reduction Efficiency not determined.
   Flue gas recirculates with intake air.

2. Control Device or Method Code: **033**

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:	**1063**		mmBtu/hr
2. Maximum Incineration Rate:	**N/A**	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	**104,000 lbs/hr coal; 39,000 ton/month coal; 390,000 tpy coal.**		
4. Maximum Production Rate:	**90 MW**		
5. Operating Capacity Comment:			

Limits set by PSD-FL-137A.

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

24	hours/day	**7**	days/week
52	weeks/year	**8760**	hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

40 CFR 60.40a ✓	Applicability >250 MMBtu/hr
40 CFR 60.41a ✓	Definitions
40 CFR 60.42a ✓	Standard for particulate matter
40 CFR 60.43a(a)	Standard for Sulfur dioxide
40 CFR 60.43a(g)	Compliance with the emission limitation and percent reduction requirements
40 CFR 60.44a	Standard for nitrogen oxides
40 CFR 60.46a ✓	Compliance Provisions
40 CFR 60.47a ✓	Emission Monitoring
40 CFR 60.48a ✓	Compliance determination procedures and methods
40 CFR 60.49a ✓	Reporting requirements
F.A.C. 62-212.300 ✓	General Preconstruction Review
F.A.C. 62-212.400 ✓	Prevention of Significant Deterioration
F.A.C. 62-296.405 no	Fossil Fuel Steam Generators with More than 250 MMBtu/hr heat input
F.A.C. 62-296.570(4)(a) no	Reasonable Available Control Technology - Requirements for Major VOC & NO_x emitting facilities
F.A.C. 62-296.702 no	Fossil Fuel Steam Generators
F.A.C. 62-296.711 no	Material Handling,Sizing, Screening, Crushing and Grinding Operations
F.A.C. 62-204.800 ✓	Standards of Performance for New Stationary Sources
F.A.C. 62-297.401 (5) ✓	EPA Method 5
F.A.C. 62-297.401 (6)	EPA Method 6
F.A.C. 62-297.401 (7) ✓	EPA Method 7

F.A.C. 62-297.401 (8)	EPA Method 8
F.A.C. 62-297.401 (9)	EPA Method 9
F.A.C. 62-297.401 (10)	EPA Method 10
F.A.C. 62-297.401 (12)	EPA Method 12
F.A.C. 62-297.401 (13)	EPA Method 13
F.A.C. 62-297.401 (15)	EPA Method 15
F.A.C. 62-297.401 (17)	EPA Method 17
F.A.C. 62-297.401 (19)	EPA Method 19
F.A.C. 62-297.401 (25)	EPA Method 25
F.A.C. 62-297.401 (32)(a)	EPA Method 101A
F.A.C. 62-297.401 (35)	EPA Method 104
F.A.C. 62-297.401 (41)	EPA Method 201
F.A.C. 62-210.700	Excess Emissions
F.A.C. 62-210.550	Stack Height Policy
F.A.C. 62-297.570	Test Reports
F.A.C. 62-297.520	EPA Performance Specifications
F.A.C. 62-297.620	Exceptions and Approval of Alternate Procedures and Requirements

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: B1	
2. Emission Point Type Code: [ ] 1 [X] 2 [ ] 3 [ ] 4	
3. Descriptions of Emissions Points Comprising this Emissions Unit: Boiler Stack (B1)	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: 001 -Boiler A 002 -Boiler B 003 -Boiler C	
5. Discharge Type Code: [ ] D [ ] F [ ] H [ ] P [ ] R [X] V [ ] W	
6. Stack Height:	**403** feet
7. Exit Diameter:	**13.26** feet
8. Exit Temperature:	**265**°F
9. Actual Volumetric Flow Rate:	**1,004,000** acfm

10. Percent Water Vapor:	**5%**
11. Maximum Dry Standard Flow Rate:	**895,403** dscfm
12. Nonstack Emission Point Height:	feet
13. Emission Point UTM Coordinates: Zone: **0903** East (km): **441.871** North (km): **3365.587**	
14. Emission Point Comment:	

The 3 CFB boilers share a common stack designated as point B1. Flue gas from the boilers is discharged through this stack. Prior to the stack, each flue gas stream is passed through a baghouse which removes fly ash.

Maximum dry standard flow rate based on highest individual boiler flue gas test (March 17, 1994) scaled by 1.25 for capacity and variation adjustments.

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

Segment Description and Rate: Segment 1 of 3

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **a) Segment 1 of 3: Bituminous coal used in boiler (emissions related to tons burned).** **b) Segment 2 of 3.** **c) Segment 3 of 3.**	
2. Source Classification Code (SCC): **10100217**	
3. SCC Units: **tons burned**	
4. Maximum Hourly Rate: **52 tph**	5. Maximum Annual Rate: **390,000 tpy**
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur: **1.7% per load, 1.2% annual.**	8. Maximum Percent Ash: **18.0 (previous application)**
9. Million Btu per SCC Unit: **24.0 (Calculated)**	
10. Segment Comment: **Limits set by PSD-FL-137A**	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 2 of 3

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **a) Segment 1 of 2** **b) Segment 2 of 2: No. 2 Fuel Oil for Startup (emissions related to 1,000 gallons burned).** **c) Segment 3 of 3.**	
2. Source Classification Code (SCC) **10100501**	
3. SCC Units: **1,000 gallons burned.**	
4. Maximum Hourly Rate: **2,705 gal.**	5. Maximum Annual Rate: **1,900,000**
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur: **0.05% (permit)**	8. Maximum Percent Ash:
9. Million Btu per SCC Unit: **140.5 (AP-42)**	
10. Segment Comment: **Limits set by PSD-FL-137A.**	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment **3** of **3**

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **a) Segment 1 of 2** **b) Segment 2 of 2** **c) Segment 3 of 3. Full Flow Reheat Bypass (FFRB) (emissions related to tons burned).**	
2. Source Classification Code (SCC) **10100217**	
3. SCC Units: **tons burned**	
4. Maximum Hourly Rate: **29 tph**	5. Maximum Annual Rate: **19,000 tpy**
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur: **0.05% (permit)**	8. Maximum Percent Ash:
9. Million Btu per SCC Unit: **24.0**	
10. Segment Comment: **Scenario under recent communication with FL DEP.**	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	016	027	EL
PM10	016	027	EL
NO_X	032/107	027	EL
SO_2	041	027	EL
CO	033	027	EL
VOC	027		EL
PB	016	027	EL
H021 (Be)	016	027	EL
H114 (Hg)	016	027	EL
SAM (H_2SO_4 Mist)	041	027	EL
FL	041	027, 016	EL
Ammonia			EL
H106	041	027	NS

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 1 of 12

1. Pollutant Emitted: **SO_2**	
2. Total Percent Efficiency of Control: **(Qtrly. Report 4-1-94 to 4-26-96)**	**89 to 95 %**
3. Primary Control Device Code: **041**	
4. Secondary Control Device Code: 027	
5. Potential Emissions: **255.1** lb/hour	**866** tons/year
6. Synthetically Limited? [X] Yes [ ] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
8. Emission Factor: **0.24 lb/MM BTU* 0.20 lb/MM BTU**** Reference: **Permit PA-88-24A, PSD-FL-137A**	
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [X] 5	
10. Calculation of Emissions: **See attached calculations at end of Boiler Section.**	
11. Pollutant Potential/Estimated Emissions Comment: **Limited by PSD-FL-137A.** *** 3-hour rolling average** **** 12-month rolling average**	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **See comment.**
4. Equivalent Allowable Emissions: **255** lb/hour **866** tons/year
5. Method of Compliance: **Continuous Emissions Monitoring Method 6,6c or 8 and Method 19**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **Permit PA-88-24A** **PSD-FL-137A** **3-hour rolling average for SO_2 = 0.24 lb/MMBtu** **12-month rolling average for SO_2 = 0.20 lb/MMBtu**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 2 of 12

1. Pollutant Emitted: **CO**	
2. Total Percent Efficiency of Control:	%
3. Primary Control Device Code: **033**	
4. Secondary Control Device Code: **027**	
5. Potential Emissions: **186** lb/hour	**758** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **0.175 lbs/MM BTU** Reference: **PSD-FL-137A**	
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5	
10. Calculation of Emissions: **PSD-FL-137A**	
11. Pollutant Potential/Estimated Emissions Comment: **Permit limits to 0.175 lbs CO/MM BTU, 1063 MM BTU/hr, 186 lbs CO/hr, 758 tpy CO**	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **See Comment.**
4. Equivalent Allowable Emissions: **186** lb/hour **758** tons/year
5. Method of Compliance: **Continuous Emissions Monitoring and Method 10**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **8-hr rolling average for CO = 0.175 lbs/MMBtu**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 3 of 12

1. Pollutant Emitted: **NO_x**	
2. Total Percent Efficiency of Control: **Estimated**	**54%**
3. Primary Control Device Code: **032/107**	
4. Secondary Control Device Code: **027**	
5. Potential Emissions:	**180.7** lb/hour **736.1** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **0.17 lb/MM BTU** Reference: **PSD-FL-137A**	
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5	
10. Calculation of Emissions: **PSD-FL-137A table**	
11. Pollutant Potential/Estimated Emissions Comment: **PSD-FL-137A table** **NO_x limit to 0.17 lbs/MM BTU, 180.7 lbs/hr, 736.1 tpy, 1063 MM BTU/hr**	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**	
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units: **See comment.**	
4. Equivalent Allowable Emissions:	**180.7** b/hour **736.1** tons/year
5. Method of Compliance: **Continuous Emissions Monitoring and Method 7, 7A, B, C, D or E**	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **30-day rolling avg. for NO_x = 0.17 lb/MMBtu**	

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 4 of 12

1. Pollutant Emitted: **VOC**
2. Total Percent Efficiency of Control: %
3. Primary Control Device Code: **027**
4. Secondary Control Device Code:
5. Potential Emissions: **16.0** lb/hour **65** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year
8. Emission Factor: **0.015** Reference: **PSD-FL-137A**
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5
10. Calculation of Emissions: **PSD-FL-137A table**
11. Pollutant Potential/Estimated Emissions Comment: **Permit limits to 0.015 lb/MM Btu VOC** **1063 MM BTU/hr** **16.0 lb/hr** **65 tpy**

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **See comment.**
4. Equivalent Allowable Emissions: **16.0** lb/hour **65** tons/year
5. Method of Compliance: **Method 18 or 25**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **0.015 lb/MM Btu VOC**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 5 of 12

1. Pollutant Emitted: **PM (TSP)**	
2. Total Percent Efficiency of Control:	**99.97%**
3. Primary Control Device Code: **016**	
4. Secondary Control Device Code: **027**	
5. Potential Emissions: **19.1** lb/hour	**78** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **0.018 lb/MM Btu** Reference: **PSD-FL-137A**	
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5	
10. Calculation of Emissions: **PSD-FL-137A**	
11. Pollutant Potential/Estimated Emissions Comment: **Permit limits to 19.1 lb/hr, 78 tpy, 0.018 lbs/MM Btu**	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **See comment.**
4. Equivalent Allowable Emissions: **19.1** lb/hour **78** tons/year
5. Method of Compliance: **Method 5 or 17, 40 CFR App. A**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **0.018 lbs/MM Btu**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 6of 12

1. Pollutant Emitted: **PM_{10}**	
2. Total Percent Efficiency of Control:	%
3. Primary Control Device Code: **016**	
4. Secondary Control Device Code: **027**	
5. Potential Emissions: **19.1** lb/hour	**78** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
8. Emission Factor: **0.018 lb/MM Btu** Reference: **PSD-FL-137A**	
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5	
10. Calculation of Emissions: **PSD-FL-137A, PM10 = PM (or TSP)**	
11. Pollutant Potential/Estimated Emissions Comment: **Permit limits to 19.1 lb/hr, 78 tpy, 0.018 lbs/MM Btu**	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **See comment.**
4. Equivalent Allowable Emissions: **19.1** lb/hour **78** tons/year
5. Method of Compliance: **Method 201 or 201A**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **0.018 lb/MM Btu**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 7 of 12

1. Pollutant Emitted: **H_2SO_4 mist**	
2. Total Percent Efficiency of Control:	%
3. Primary Control Device Code: **041**	
4. Secondary Control Device Code: **027**	
5. Potential Emissions: **0.50** lb/hour	**2.0** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **4.66×10^{-4} lb/MM Btu** Reference: **PSD-FL-137A**	
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5	
10. Calculation of Emissions: **PSD-FL-137A**	
11. Pollutant Potential/Estimated Emissions Comment:	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **See comment.**
4. Equivalent Allowable Emissions: **0.50** lb/hour **2.0** tons/year
5. Method of Compliance: **Method 8**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **4.66 x 10^{-4} lb/MM Btu**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 8 of 12

1. Pollutant Emitted: **Flourides**
2. Total Percent Efficiency of Control: %
3. Primary Control Device Code: **041**
4. Secondary Control Device Code: **016, 027**
5. Potential Emissions: **0.79** lb/hour **3.2** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year
8. Emission Factor: **7.44 x 10^{-4} lb/MM Btu** Reference: **PSD-FL-137A**
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5
10. Calculation of Emissions: **PSD-FL-137A**
11. Pollutant Potential/Estimated Emissions Comment:

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **See comment.**
4. Equivalent Allowable Emissions: **0.79** lb/hour **3.2** tons/year
5. Method of Compliance: **Method 13A or B**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **7.44×10^{-4} lb/MM Btu**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 9 of 12

1. Pollutant Emitted: **Lead**	
2. Total Percent Efficiency of Control: **(Estimate assumes capture efficiency same as for particulates)**	**99.97%**
3. Primary Control Device Code: **016**	
4. Secondary Control Device Code: **027**	
5. Potential Emissions:	**0.06** lb/hour **0.26** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **6.03×10^{-5} lb/MM Btu** Reference: **PSD-FL-137A**	
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5	
10. Calculation of Emissions: **PSD-FL-137A table.**	
11. Pollutant Potential/Estimated Emissions Comment:	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **See comment.**
4. Equivalent Allowable Emissions: **0.06** lb/hour **0.26** tons/year
5. Method of Compliance: **Method 12**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **6.03 x 10^{-5} lb/MM Btu**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 10 of 12

1. Pollutant Emitted: **Mercury**	
2. Total Percent Efficiency of Control:	%
3. Primary Control Device Code: **016**	
4. Secondary Control Device Code: **027**	
5. Potential Emissions: **0.03** lb/hour	**0.13** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **2.89 x 10^{-5} lb/MM Btu** Reference: **PSD-FL-137A**	
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5	
10. Calculation of Emissions: **PSD-FL-137A table.**	
11. Pollutant Potential/Estimated Emissions Comment:	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: **See comment.**		
4. Equivalent Allowable Emissions:	**0.03** lb/hour	**0.13** tons/year
5. Method of Compliance: **Method 101A**		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **2.89 x 10^{-5} lb/MM Btu**		

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 11 of 12

1. Pollutant Emitted: **Beryllium**	
2. Total Percent Efficiency of Control: **(Estimate assumes capture efficiency same as for particulates)**	**99.97%**
3. Primary Control Device Code: **016**	
4. Secondary Control Device Code: **027**	
5. Potential Emissions:	**0.01** lb/hour **0.04** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **8.70 x 10^{-6} lb/MM Btu** Reference: **PSD-FL-137A**	
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5	
10. Calculation of Emissions: **PSD-FL-137A table.**	
11. Pollutant Potential/Estimated Emissions Comment:	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: **See comment.**		
4. Equivalent Allowable Emissions:	**0.01** lb/hour	0.04 tons/year
5. Method of Compliance: **Method 104**		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **8.70 x 10^{-6} lb/MM Btu**		

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 12 of 12

1. Pollutant Emitted: **Ammonia (NH_3)**
2. Total Percent Efficiency of Control:
3. Primary Control Device Code:
4. Secondary Control Device Code:
5. Potential Emissions: **7.91** lb/hour **34.7** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year
8. Emission Factor: **10 ppmvd @ 100% capacity** Reference: **PSD-FL-137A**
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [X] 5
10. Calculation of Emissions: **See attached calculations.**
11. Pollutant Potential/Estimated Emissions Comment: **10 ppmvd @ coal 100% capacity** **30 ppmvd @ oil burning (start up use only)**

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **OTHER**	
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units: **10 ppmv coal, 20 ppmv oil.**	
4. Equivalent Allowable Emissions:	**7.91** lb/hour **34.7** tons/year
5. Method of Compliance: **As determined by DEP.**	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **Limited by PSD-FL-137** **Previous test used combination of Interpoll Laberatories inhouse method and Kjoeldahl Colorimetric method, both described in March 17, 1994 report.**	

F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field 1. Most emissions units will be subject to a "subtype VE" limit only.

Visible Emissions Limitation: Visible Emissions Limitation **1** of **1**

1. Visible Emissions Subtype: **VE, VES**	
2. Basis for Allowable Opacity:	[**X**] Rule [**X**] Other
3. Requested Allowable Opacity: Normal Conditions: **20** % Exceptional Conditions: **27** % Maximum Period of Excess Opacity Allowed: **6** min/hour	
4. Method of Compliance: **COM, Method 9**	
5. Visible Emissions Comment: **27% opacity for oil-burning during startup** **PSD-FL-137A.**	

G. CONTINUOUS MONITOR INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are required by rule or permit to install and operate one or more continuous emission, opacity, flow, or other type monitors. A separate set of continuous monitor information (Fields 1-6) must be completed for each monitoring system required.

Continuous Monitoring System: Continuous Monitor **1** of **5**

1. Parameter Code: **NO_X**	
2. CMS Requirement:	[**X**] Rule [ ] Other
3. Monitor Information: Manufacturer: **Thermo Electron** Model Number: **42**	Serial Number: **42-40437-263**
4. Installation Date (DD-MON-YYYY):	
5. Performance Specification Test Date (DD-MON-YYYY):	**21-JAN-1994**
6. Continuous Monitor Comment: **On Boiler A Baghouse Flue**	

Continuous Monitoring System: Continuous Monitor **2** of **5**

1. Parameter Code: **SO_2**
2. CMS Requirement: [**X**] Rule [ ] Other
3. Monitor Information: Manufacturer: **Thermo Electron** Model Number: **43A** Serial Number: **43A-39572-263**
4. Installation Date (DD-MON-YYYY):
5. Performance Specification Test Date (DD-MON-YYYY): **21-JAN-1994**
6. Continuous Monitor Comment:

Continuous Monitoring System: Continuous Monitor **3** of **5**

1. Parameter Code: **CO**
2. CMS Requirement: [**X**] Rule [ ] Other
3. Monitor Information: Manufacturer: **Thermo Electron** Model Number: **48** **Serial Number: 48-39881-261**
4. Installation Date (DD-MON-YYYY):
5. Performance Specification Test Date (DD-MON-YYYY): **21-JAN-1994**
6. Continuous Monitor Comment:

Continuous Monitoring System: Continuous Monitor **4** of **5**

1. Parameter Code: **CO_2**
2. CMS Requirement: [**X**] Rule [ ] Other
3. Monitor Information: Manufacturer: **Automated Custom systems - Milton Roy 3300** Model Number: **3300** Serial Number: **N2E0291T**
4. Installation Date (DD-MON-YYYY):
5. Performance Specification Test Date (DD-MON-YYYY): **21-JAN-1994**
6. Continuous Monitor Comment:

Continuous Monitoring System: Continuous Monitor **5** of **5**

1. Parameter Code: **VE**
2. CMS Requirement: [**X**] Rule [ ] Other
3. Monitor Information: Manufacturer: **Enviroplan/Durag** Model Number: **CEMOP-281** Serial Number: **29180**
4. Installation Date (DD-MON-YYYY):
5. Performance Specification Test Date (DD-MON-YYYY): **06-FEB-1994 and 13-FEB-1994**
6. Continuous Monitor Comment:

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[X] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:

PM	[X] C	[ ] E	[ ] Unknown
SO2	[X] C	[ ] E	[ ] Unknown
NO2	[X] C	[ ] E	[ ] Unknown

4. Baseline Emissions:

PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment:

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID: 5402-067-B1 [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: **March 17,1994** [ ] Not Applicable
6. Procedures for Startup and Shutdown [X] Attached, Document ID: **CB03** [ ] Not Applicable
7. Operation and Maintenance Plan [X] Attached, Document ID: **CB04** [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [**X**] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [**X**] Not Applicable

12. Enhanced Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable **RESERVED**

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [ ] Not Applicable
PSD-FL-137(c) on file at FL DEP

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[**X**] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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.

[ ] 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.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section:

Circulating Fluidized Bed (CFB) boiler B with limestone injection for SO_2 emissions reduction, Ammonia injection for NO_x emissions reduction. Fuel is primarily bituminous coal with No. 2 fuel oil for startup, supplemented by fiber rejects from the Seminole Kraft Mill. Combustion products are flue gas with fly ash and bed ash.

2. ARMS Identification Number: **002** [ ] No Corresponding ID [ ] Unknown

3. Emissions Unit Status Code: **A**	4. Acid Rain Unit? [ ] Yes [**X**] No	5. Emissions Unit Major Group SIC Code: 49

6. Initial Startup Date (DD-MON-YYYY): **25-JAN-1994**

7. Long-term Reserve Shutdown Date (DD-MON-YYYY): N/A

8. Package Unit:
Manufacturer: Model Number:

9. Generator Nameplate Rating: **90** MW **per PID drawing**

10. Incinerator Information:
Dwell Temperature: °F
Dwell Time: seconds
Incinerator Afterburner Temperature : °F

11. Emissions Unit Comment:

Emissions Unit Control Equipment

A.

1. Description: **Baghouse**

   efficiency = 1 - emission / load = 0.0055 gr/acf / 19.5 gr/acf = 99.97%

2. Control Device or Method Code: **016**

B.

1. Description: **Ammonia injection**

   Efficiency = 54% for NO_x (est.)

2. Control Device or Method Code: **032/107**

C.

1. Description: **Dry limestone injection**

   Efficiency from 89 to 95% based on Quarterly Report Dated 4-1-94 to 4-26-96.

2. Control Device or Method Code: **041**

Emissions Unit Control Equipment

D.

1. Description: **Air Preheater** **Reduction Efficiency not determined.** **Intake air is preheated via flue gas to reduce fuel requirements.**
2. Control Device or Method Code: **016**

E

1. Description: **Control of Oxygen** **Reduction Efficiency not determined.** **Flue gas recirculates with intake air.**
2. Control Device or Method Code: **033**

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: **1063**	mmBtu/hr
2. Maximum Incineration Rate: **N/A** lb/hr	tons/day
3. Maximum Process or Throughput Rate: **104,000 lbs/hr coal; 39,000 ton/month coal; 390,000 tpy coal; 210 yd^3/day wet SK fiber reject; 69,588 yd^3/yr wet**	
4. Maximum Production Rate: **90 MW**	
5. Operating Capacity Comment: **Limits set by PSD-FL-137A.**	

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

24	hours/day	**7**	days/week
52	weeks/year	**8760**	hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

40 CFR 60.40a	Applicability >250 MMBtu/hr
40 CFR 60.41a	Definitions
40 CFR 60.42a	Standard for particulate matter
40 CFR 60.43a(a)	Standard for Sulfur dioxide
40 CFR 60.43a(g)	Compliance with the emission limitation and percent reduction requirements
40 CFR 60.44a	Standard for nitrogen oxides
40 CFR 60.46a	Compliance Provisions
40 CFR 60.47a	Emission Monitoring
40 CFR 60.48a	Compliance determination procedures and methods
40 CFR 60.49a	Reporting requirements
F.A.C. 62-212.300	General Preconstruction Review
F.A.C. 62-212.400	Prevention of Significant Deterioration
F.A.C. 62-296.405	Fossil Fuel Steam Generators with More than 250 MMBtu/hr heat input
F.A.C. 62-296.570(4)(a)	Reasonable Available Control Technology - Requirements for Major VOC & NO_x emitting facilities
F.A.C. 62-296.702	Fossil Fuel Steam Generators
F.A.C. 62-296.711	Material Handling,Sizing, Screening, Crushing and Grinding Operations
F.A.C. 62-204.800	Standards of Performance for New Stationary Sources
F.A.C. 62-297.401 (5)	EPA Method 5
F.A.C. 62-297.401 (6)	EPA Method 6
F.A.C. 62-297.401 (7)	EPA Method 7

F.A.C. 62-297.401 (8)	EPA Method 8
F.A.C. 62-297.401 (9)	EPA Method 9
F.A.C. 62-297.401 (10)	EPA Method 10
F.A.C. 62-297.401 (12)	EPA Method 12
F.A.C. 62-297.401 (13)	EPA Method 13
F.A.C. 62-297.401 (15)	EPA Method 15
F.A.C. 62-297.401 (17)	EPA Method 17
F.A.C. 62-297.401 (19)	EPA Method 19
F.A.C. 62-297.401 (25)	EPA Method 25
F.A.C. 62-297.401 (32)(a)	EPA Method 101A
F.A.C. 62-297.401 (35)	EPA Method 104
F.A.C. 62-297.401 (41)	EPA Method 201
F.A.C. 62-210.700	Excess Emissions
F.A.C. 62-210.550	Stack Height Policy
F.A.C. 62-297.570	Test Reports
F.A.C. 62-297.520	EPA Performance Specifications
F.A.C. 62-297.620	Exceptions and Approval of Alternate Procedures and Requirements

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: B1	
2. Emission Point Type Code: [ ] 1 [X] 2 [ ] 3 [ ] 4	
3. Descriptions of Emissions Points Comprising this Emissions Unit: _____ Boiler Stack (B1)	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: 001 -Boiler A 002 -Boiler B 003 -Boiler C	
5. Discharge Type Code: [ ] D [ ] F [ ] H [ ] P [ ] R [X] V [ ] W	
6. Stack Height:	**403** feet
7. Exit Diameter:	**13.26** feet
8. Exit Temperature:	**265**°F
9. Actual Volumetric Flow Rate:	**1,004,000** acfm

10. Percent Water Vapor:	**5%**
11. Maximum Dry Standard Flow Rate:	**895,400** dscfm
12. Nonstack Emission Point Height:	feet
13. Emission Point UTM Coordinates: Zone: **0903** East (km): **441.871** North (km): **3365.587**	

14. Emission Point Comment:

The 3 CFB boilers share a common stack designated as point B1. Flue gas from the boilers is discharged through this stack. Prior to the stack, each flue gas stream is passed through a baghouse which removes fly ash.

Maximum dry standard flow rate based on highest individual boiler flue gas test (March 17, 1994) scaled by 1.25 for capacity and variation adjustments.

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

Segment Description and Rate: Segment 1 of 4

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **a) Segment 1 of 4: Bituminous coal used in boiler (emissions related to tons burned).** **b) Segment 2 of 4.** **c) Segment 3 of 4.** **d) Segment 4 of 4.**	
2. Source Classification Code (SCC): **10100217**	
3. SCC Units: **tons burned**	
4. Maximum Hourly Rate: **52 tph**	5. Maximum Annual Rate: **390,000 tpy**
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur: **1.7% per load, 1.2% annual.**	8. Maximum Percent Ash: **18.0 (previous application)**
9. Million Btu per SCC Unit: **24.0 (Calculated)**	
10. Segment Comment: **Limits set by PSD-FL-137A**	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 2 of 4

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **a) Segment 1 of 4.** **b) Segment 2 of 4: No. 2 Fuel Oil for Startup (emissions related to 1,000 gallons burned).** **c) Segment 3 of 4.** **d) Segment 4 of 4.**	
2. Source Classification Code (SCC) **10100501**	
3. SCC Units: **1,000 gallons burned.**	
4. Maximum Hourly Rate: **2,705 gal.**	5. Maximum Annual Rate: **1,900,000**
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur: **0.05% (permit)**	8. Maximum Percent Ash:
9. Million Btu per SCC Unit: **140.5 (AP-42)**	
10. Segment Comment: **Limits set by PSD-FL-137A.**	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 3 of 4

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **a) Segment 1 of 4.** **b) Segment 2 of 4.** **c) Segment 3 of 4: Combustion of SK Fiber rejects, emissions related to tons burned.** **d) Segment 4 of 4.**	
2. Source Classification Code (SCC) **10100501**	
3. SCC Units: **tons burned.**	
4. Maximum Hourly Rate: **1.8 ton**	5. Maximum Annual Rate: **93,302 ton**
6. Estimated Annual Activity Factor: **93,302 ton**	
7. Maximum Percent Sulfur: **0.10% (permit)**	8. Maximum Percent Ash: **5%**
9. Million Btu per SCC Unit: **2,535 Btu/lb = 5.07 MM Btu/ton**	
10. Segment Comment: **Limits based on 210 CY/day per PSD-FL-137A.**	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 4 of 4

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **a) Segment 1 of 4.** **b) Segment 2 of 4.** **c) Segment 3 of 4:** **d) Segment 4 of 4. Full Flow Reheat Bypass (FFRB) (emissions related to tons coal burned.)**	
2. Source Classification Code (SCC) **10100217**	
3. SCC Units: **tons burned.**	
4. Maximum Hourly Rate: **29 tph**	5. Maximum Annual Rate: **19,000 tpy**
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur: **0.05%(permit)**	8. Maximum Percent Ash: **18.0 (previous application)**
9. Million Btu per SCC Unit: **24.0**	
10. Segment Comment: **Limits set by PSD-FL-137A.**	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	016	027	EL
PM10	016	027	EL
NO_X	032/107	027	EL
SO_2	041	027	EL
CO	033	027	EL
VOC	027		EL
PB	016	027	EL
H021 (Be)	016	027	EL
H114 (Hg)	016	027	EL
SAM (H_2SO_4 Mist)	041	027	EL
FL	041	027, 016	EL
Ammonia			EL
H106	041	027	NS

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 1 of 12

1. Pollutant Emitted: **SO_2**	
2. Total Percent Efficiency of Control: **(Qtrly. Report 4-1-94 to 4-26-96)**	**89 to 95 %**
3. Primary Control Device Code: **041**	
4. Secondary Control Device Code:	
5. Potential Emissions: **255.1** lb/hour	**866** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
8. Emission Factor: **0.24 lb/MM BTU hourly 0.20 lb/MM BTU annually** Reference: **Permit PA-88-24A, PSD-FL-137A**	
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5	
10. Calculation of Emissions: **See attached calculations at end of Boiler Section**	
11. Pollutant Potential/Estimated Emissions Comment: **Limited by PSD-FL-137A.**	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**	
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units: **See comment.**	
4. Equivalent Allowable Emissions:	**255** lb/hour **866** tons/year
5. Method of Compliance: **Continuous Emissions Monitoring Method 6,6c or 8 and Method 19**	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **Permit PA-88-24A** **PSD-FL-137A** **3-hour rolling average for SO_2 = 0.24 lb/MMBtu** **12-month rolling average for SO_2 = 0.20 lb/MMBtu**	

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 2 of 12

1. Pollutant Emitted: **CO**
2. Total Percent Efficiency of Control: %
3. Primary Control Device Code: **033**
4. Secondary Control Device Code: **027**
5. Potential Emissions: **186** lb/hour **758** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year
8. Emission Factor: **0.175 lbs/MM BTU** Reference: **PSD-FL-137A**
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5
10. Calculation of Emissions: **PSD-FL-137A**
11. Pollutant Potential/Estimated Emissions Comment: **Permit limits to 0.175 lbs CO/MM BTU, 1063 MM BTU/hr, 186 lbs CO/hr, 758 tpy CO**

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **See Comment.**
4. Equivalent Allowable Emissions: **186** lb/hour **758** tons/year
5. Method of Compliance: **Continuous Emissions Monitoring and Method 10**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **8-hr rolling average for CO = 0.175 lbs/MMBtu**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 3 of 12

1. Pollutant Emitted: **NO_x**	
2. Total Percent Efficiency of Control: **Estimated**	**54%**
3. Primary Control Device Code: **032/107**	
4. Secondary Control Device Code: **027**	
5. Potential Emissions:	**180.7** lb/hour **736.1** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **0.17 lb/MM BTU** Reference: **PSD-FL-137A**	
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5	
10. Calculation of Emissions: **PSD-FL-137A table**	
11. Pollutant Potential/Estimated Emissions Comment: **PSD-FL-137A table** **NO_x limit to 0.17 lbs/MM BTU, 180.7 lbs/hr, 736.1 tpy, 1063 MM BTU/hr**	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **See comment.**
4. Equivalent Allowable Emissions: **180.7** b/hour **736.1** tons/year
5. Method of Compliance: **Continuous Emissions Monitoring and Method 7, 7A, B, C, D or E**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **30-day rolling avg. for NO_x = 0.17 lb/MMBtu**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 4 of 12

1. Pollutant Emitted: **VOC**	
2. Total Percent Efficiency of Control:	%
3. Primary Control Device Code: **027**	
4. Secondary Control Device Code:	
5. Potential Emissions: **16.0** lb/hour	**65** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **0.015** Reference: **PSD-FL-137A**	
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5	
10. Calculation of Emissions: **PSD-FL-137A table**	
11. Pollutant Potential/Estimated Emissions Comment: **Permit limits to 0.015 lb/MM Btu VOC** **1063 MM BTU/hr** **16.0 lb/hr** **65 tpy**	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: **See comment.**		
4. Equivalent Allowable Emissions:	**16.0** lb/hour	**65** tons/year
5. Method of Compliance: **Method 18 or 25**		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **0.015 lb/MM Btu VOC**		

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 5 of 12

1. Pollutant Emitted: **PM (TSP)**	
2. Total Percent Efficiency of Control:	**99.97%**
3. Primary Control Device Code: **016**	
4. Secondary Control Device Code: **027**	
5. Potential Emissions: **19.1** lb/hour	**78** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **0.018 lb/MM Btu** Reference: **PSD-FL-137A**	
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5	
10. Calculation of Emissions: **PSD-FL-137A**	
11. Pollutant Potential/Estimated Emissions Comment: **Permit limits to 19.1 lb/hr, 78 tpy, 0.018 lbs/MM Btu**	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**	
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units: **See comment.**	
4. Equivalent Allowable Emissions:	**19.1** lb/hour **78** tons/year
5. Method of Compliance: **Method 5 or 17, 40 CFR App. A**	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **0.018 lbs/MM Btu**	

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 6 of 12

1. Pollutant Emitted: **PM_{10}**
2. Total Percent Efficiency of Control: %
3. Primary Control Device Code: **016**
4. Secondary Control Device Code: **027**
5. Potential Emissions: **19.1** lb/hour **78** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year
8. Emission Factor: **0.018 lb/MM Btu** Reference: **PSD-FL-137A**
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5
10. Calculation of Emissions: **PSD-FL-137A, PM10 = PM (or TSP)**
11. Pollutant Potential/Estimated Emissions Comment: **Permit limits to 19.1 lb/hr, 78 tpy, 0.018 lbs/MM Btu**

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**	
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units: **See comment.**	
4. Equivalent Allowable Emissions:	**19.1** lb/hour **78** tons/year
5. Method of Compliance: **Method 201 or 201A**	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **0.018 lb/MM Btu**	

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 7 of 12

1. Pollutant Emitted: **H_2SO_4 mist**	
2. Total Percent Efficiency of Control:	%
3. Primary Control Device Code: **041**	
4. Secondary Control Device Code: **027**	
5. Potential Emissions: **0.50** lb/hour	**2.0** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **4.66×10^{-4} lb/MM Btu** Reference: **PSD-FL-137A**	
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5	
10. Calculation of Emissions: **PSD-FL-137A**	
11. Pollutant Potential/Estimated Emissions Comment:	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: **See comment.**		
4. Equivalent Allowable Emissions:	**0.50** lb/hour	**2.0** tons/year
5. Method of Compliance: **Method 8**		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **4.66 x 10^{-4} lb/MM Btu**		

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 8 of 12

1. Pollutant Emitted: **Flourides**
2. Total Percent Efficiency of Control: %
3. Primary Control Device Code: **041**
4. Secondary Control Device Code: **016, 027**
5. Potential Emissions: **0.79** lb/hour **3.2** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year
8. Emission Factor: **7.44×10^{-4} lb/MM Btu** Reference: **PSD-FL-137A**
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5
10. Calculation of Emissions: **PSD-FL-137A**
11. Pollutant Potential/Estimated Emissions Comment:

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**	
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units: **See comment.**	
4. Equivalent Allowable Emissions:	**0.79** lb/hour **3.2** tons/year
5. Method of Compliance: **Method 13A or B**	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **7.44 x 10^{-4} lb/MM Btu**	

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 9 of 12

1. Pollutant Emitted: **Lead**
2. Total Percent Efficiency of Control: **99.97%** **(Estimate assumes capture efficiency same as for particulates)**
3. Primary Control Device Code: **016**
4. Secondary Control Device Code: **027**
5. Potential Emissions: **0.06** lb/hour **0.26** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year
8. Emission Factor: **6.03 x 10^{-5} lb/MM Btu** Reference: **PSD-FL-137A**
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5
10. Calculation of Emissions: **PSD-FL-137A table.**
11. Pollutant Potential/Estimated Emissions Comment:

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: **See comment.**		
4. Equivalent Allowable Emissions:	**0.06** lb/hour	**0.26** tons/year
5. Method of Compliance: **Method 12**		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **6.03 x 10^{-5} lb/MM Btu**		

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 10 of 12

1. Pollutant Emitted: **Mercury**		
2. Total Percent Efficiency of Control:		%
3. Primary Control Device Code: **016**		
4. Secondary Control Device Code: **027**		
5. Potential Emissions:	**0.03** lb/hour	**0.13** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No		
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____	tons/year
8. Emission Factor: **2.89 x 10^{-5} lb/MM Btu** Reference: **PSD-FL-137A**		
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5		
10. Calculation of Emissions: **PSD-FL-137A table.**		
11. Pollutant Potential/Estimated Emissions Comment:		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: **See comment.**		
4. Equivalent Allowable Emissions:	**0.03** lb/hour	**0.13** tons/year
5. Method of Compliance: **Method 101A**		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **2.89 x 10^{-5} lb/MM Btu**		

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 11 of 12

1. Pollutant Emitted: **Beryllium**	
2. Total Percent Efficiency of Control: **(Estimate assumes capture efficiency same as for particulates)**	**99.97%**
3. Primary Control Device Code: **016**	
4. Secondary Control Device Code: **027**	
5. Potential Emissions:	**0.01** lb/hour **0.04** tons/year
6. Synthetically Limited? [X] Yes [ ] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **8.70×10^{-6} lb/MM Btu** Reference: **PSD-FL-137A**	
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [X] 5	
10. Calculation of Emissions: **PSD-FL-137A table.**	
11. Pollutant Potential/Estimated Emissions Comment:	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **See comment.**
4. Equivalent Allowable Emissions: **0.01** lb/hour 0.04 tons/year
5. Method of Compliance: **Method 104**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **8.70 x 10^{-6} lb/MM Btu**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 12 of 12

1. Pollutant Emitted: **Ammonia (NH_3)**		
2. Total Percent Efficiency of Control: **(Estimate)**		**54%**
3. Primary Control Device Code:		
4. Secondary Control Device Code:		
5. Potential Emissions:	**7.91** lb/hour	**34.7** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No		
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____	tons/year
8. Emission Factor: **10 ppmvd @ 100% capacity** Reference: **PSD-FL-137A**		
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [X] 5		
10. Calculation of Emissions: **See attached calculations.**		
11. Pollutant Potential/Estimated Emissions Comment: **10 ppmvd @ coal 100% capacity** **30 ppmvd @ oil burning (start up use only)**		

F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field 1. Most emissions units will be subject to a "subtype VE" limit only.

Visible Emissions Limitation: Visible Emissions Limitation **1** of **1**

1. Visible Emissions Subtype:	**VE, VES**
2. Basis for Allowable Opacity:	[X] Rule [X] Other
3. Requested Allowable Opacity: Normal Conditions: **20** % Maximum Period of Excess Opacity Allowed: **6**	Exceptional Conditions: **27** % min/hour
4. Method of Compliance:	**COM, Method 9**
5. Visible Emissions Comment:	**27% opacity for oil-burning during startup (40 CFR 60.42a2) PSD-FL-137A.**

G. CONTINUOUS MONITOR INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are required by rule or permit to install and operate one or more continuous emission, opacity, flow, or other type monitors. A separate set of continuous monitor information (Fields 1-6) must be completed for each monitoring system required.

Continuous Monitoring System: Continuous Monitor 1 of 5

1. Parameter Code: **NO_X**	
2. CMS Requirement:	[**X**] Rule [ ] Other
3. Monitor Information: Manufacturer: **Thermo Electron** Model Number: **42**	Serial Number: **42-39993-262**
4. Installation Date (DD-MON-YYYY):	
5. Performance Specification Test Date (DD-MON-YYYY):	**21-JAN-1994**
6. Continuous Monitor Comment: **On Boiler B Baghouse Flue**	

Continuous Monitoring System: Continuous Monitor 2 of 5

1. Parameter Code: **SO_2**
2. CMS Requirement: [**X**] Rule [ ] Other
3. Monitor Information: Manufacturer: **Thermo Electron** Model Number: **43A** Serial Number: **43B-44610-272**
4. Installation Date (DD-MON-YYYY):
5. Performance Specification Test Date (DD-MON-YYYY): **21-JAN-1994**
6. Continuous Monitor Comment:

Continuous Monitoring System: Continuous Monitor 3 of 5

1. Parameter Code: **CO**
2. CMS Requirement: [**X**] Rule [ ] Other
3. Monitor Information: Manufacturer: **Thermo Electron** Model Number: **48** **Serial Number: 48-40012-261**
4. Installation Date (DD-MON-YYYY):
5. Performance Specification Test Date (DD-MON-YYYY): **21-JAN-1994**
6. Continuous Monitor Comment:

Continuous Monitoring System: Continuous Monitor 4 of 5

1. Parameter Code:	**CO_2**
2. CMS Requirement:	[**X**] Rule [ ] Other
3. Monitor Information: Manufacturer: **Automated Custom Systems -** Model Number: **3300**	Serial Number: **N2E0308T**
4. Installation Date (DD-MON-YYYY):	
5. Performance Specification Test Date (DD-MON-YYYY):	**21-JAN-1994**
6. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor 5 of 5

1. Parameter Code:	**VE**
2. CMS Requirement:	[**X**] Rule [ ] Other
3. Monitor Information: Manufacturer: **Enviroplan** Model Number: **CEMOP-281**	Serial Number: **29175**
4. Installation Date (DD-MON-YYYY):	
5. Performance Specification Test Date (DD-MON-YYYY):	**06-FEB-1994 and 13-FEB-1994**
6. Continuous Monitor Comment:	

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[X] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:

PM	[X] C	[ ] E	[ ] Unknown
SO2	[X] C	[ ] E	[ ] Unknown
NO2	[X] C	[ ] E	[ ] Unknown

4. Baseline Emissions:

PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment:

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID:5402-067-B1 [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: **March 17,1994** [ ] Not Applicable
6. Procedures for Startup and Shutdown [X] Attached, Document ID: **CB03** [ ] Not Applicable
7. Operation and Maintenance Plan [X] Attached, Document ID: **CB04** [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Enhanced Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable **Reserved.**

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [ ] Not Applicable
PSD FL-137 on file at FL DEP

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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.

[ ] 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.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section:

Circulating Fluidized Bed (CFB) boiler C with limestone injection for SO_2 emissions reduction, Ammonia injection for NO_x emissions reduction. Fuel is primarily bituminous coal with No. 2 fuel oil for startup, supplemented by fiber rejects from the Seminole Kraft Mill. Combustion products are flue gas with fly ash and bed ash.

2. ARMS Identification Number: **002** [ ] No Corresponding ID [ ] Unknown

3. Emissions Unit Status Code: **A**	4. Acid Rain Unit? [ ] Yes [**X**] No	5. Emissions Unit Major Group SIC Code: 49

6. Initial Startup Date (DD-MON-YYYY): **25-JAN-1994**

7. Long-term Reserve Shutdown Date (DD-MON-YYYY): N/A

8. Package Unit:
Manufacturer: Model Number:

9. Generator Nameplate Rating: **90** MW **per PID drawing**

10. Incinerator Information:
Dwell Temperature: °F
Dwell Time: seconds
Incinerator Afterburner Temperature : °F

11. Emissions Unit Comment:

Emissions Unit Control Equipment

A.

1. Description: **Baghouse**

efficiency = 1 - emission / load = 0.0055 gr/acf / 19.5 gr/acf = 99.97%

2. Control Device or Method Code: **016**

B.

1. Description: **Ammonia injection**

Efficiency = 54% for NO_x (est.)

2. Control Device or Method Code: **032**

C.

1. Description: **Dry limestone injection**

Efficiency from 89 to 95% based on Quarterly Report Dated 4-1-94 to 4-26-96.

2. Control Device or Method Code: **041**

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: **1063**	mmBtu/hr
2. Maximum Incineration Rate: **N/A** lb/hr	tons/day
3. Maximum Process or Throughput Rate: **104,000 lbs/hr coal; 39,000 ton/month coal; 390,000 tpy coal; 210 yd^3/day wet SK fiber reject; 69,588 yd^3/yr wet**	
4. Maximum Production Rate: **90 MW**	
5. Operating Capacity Comment: **Limits set by PSD-FL-137A.**	

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

24	hours/day	**7**	days/week
52	weeks/year	**8760**	hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

40 CFR 60.40a	Applicability >250 MMBtu/hr
40 CFR 60.41a	Definitions
40 CFR 60.42a	Standard for particulate matter
40 CFR 60.43a(a)	Standard for Sulfur dioxide
40 CFR 60.43a(g)	Compliance with the emission limitation and percent reduction requirements
40 CFR 60.44a	Standard for nitrogen oxides
40 CFR 60.46a	Compliance Provisions
40 CFR 60.47a	Emission Monitoring
40 CFR 60.48a	Compliance determination procedures and methods
40 CFR 60.49a	Reporting requirements
F.A.C. 62-212.300	General Preconstruction Review
F.A.C. 62-212.400	Prevention of Significant Deterioration
F.A.C. 62-296.405	Fossil Fuel Steam Generators with More than 250 MMBtu/hr heat input
F.A.C. 62-296.570(4)(a)	Reasonable Available Control Technology - Requirements for Major VOC & NO_x emitting facilities
F.A.C. 62-296.702	Fossil Fuel Steam Generators
F.A.C. 62-296.711	Material Handling,Sizing, Screening, Crushing and Grinding Operations
F.A.C. 62-204.800	Standards of Performance for New Stationary Sources
F.A.C. 62-297.401 (5)	EPA Method 5
F.A.C. 62-297.401 (6)	EPA Method 6
F.A.C. 62-297.401 (7)	EPA Method 7

F.A.C. 62-297.401 (8)	EPA Method 8
F.A.C. 62-297.401 (9)	EPA Method 9
F.A.C. 62-297.401 (10)	EPA Method 10
F.A.C. 62-297.401 (12)	EPA Method 12
F.A.C. 62-297.401 (13)	EPA Method 13
F.A.C. 62-297.401 (15)	EPA Method 15
F.A.C. 62-297.401 (17)	EPA Method 17
F.A.C. 62-297.401 (19)	EPA Method 19
F.A.C. 62-297.401 (25)	EPA Method 25
F.A.C. 62-297.401 (32)(a)	EPA Method 101A
F.A.C. 62-297.401 (35)	EPA Method 104
F.A.C. 62-297.401 (41)	EPA Method 201
F.A.C. 62-210.700	Excess Emissions
F.A.C. 62-210.550	Stack Height Policy
F.A.C. 62-297.570	Test Reports
F.A.C. 62-297.520	EPA Performance Specifications
F.A.C. 62-297.620	Exceptions and Approval of Alternate Procedures and Requirements

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: B1	
2. Emission Point Type Code: [ ] 1 [X] 2 [ ] 3 [ ] 4	
3. Descriptions of Emissions Points Comprising this Emissions Unit: _____ Boiler Stack (B1)	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: 001 -Boiler A 002 -Boiler B 003 -Boiler C	
5. Discharge Type Code: [ ] D [ ] F [ ] H [ ] P [ ] R [X] V [ ] W	
6. Stack Height:	**403** feet
7. Exit Diameter:	**13.26** feet
8. Exit Temperature:	**265**°F
9. Actual Volumetric Flow Rate:	**1,004,000** acfm

10. Percent Water Vapor:	**5%**
11. Maximum Dry Standard Flow Rate:	**895,400** dscfm
12. Nonstack Emission Point Height:	feet
13. Emission Point UTM Coordinates: Zone: **0903** East (km): **441.871** North (km): **3365.587**	
14. Emission Point Comment:	

The 3 CFB boilers share a common stack designated as point B1. Flue gas from the boilers is discharged through this stack. Prior to the stack, each flue gas stream is passed through a baghouse which removes fly ash.

Maximum dry standard flow rate based on highest individual boiler flue gas test (March 17, 1994) scaled by 1.25 for capacity and variation adjustments.

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

Segment Description and Rate: Segment **1** of **4**

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **a) Segment 1 of 4: Bituminous coal used in boiler (emissions related to tons burned).** **b) Segment 2 of 4.** **c) Segment 3 of 4.** **d) Segment 4 of 4.**	
2. Source Classification Code (SCC): **10100217**	
3. SCC Units: **tons burned**	
4. Maximum Hourly Rate: **52 tph**	5. Maximum Annual Rate: **390,000 tpy**
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur: **1.7% per load, 1.2% annual.**	8. Maximum Percent Ash: **18.0 (previous application)**
9. Million Btu per SCC Unit: **24.0 (Calculated)**	
10. Segment Comment: **Limits set by PSD-FL-137A**	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 2 of 4

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): a) **Segment 1 of 4.** b) **Segment 2 of 4: No. 2 Fuel Oil for Startup (emissions related to 1,000 gallons burned).** c) **Segment 3 of 4.** d) **Segment 4 of 4.**	
2. Source Classification Code (SCC) **10100501**	
3. SCC Units: **1,000 gallons burned.**	
4. Maximum Hourly Rate: **2,705 gal.**	5. Maximum Annual Rate: **1,900,000**
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur: **0.05% (permit)**	8. Maximum Percent Ash:
9. Million Btu per SCC Unit: **140.5 (AP-42)**	
10. Segment Comment: **Limits set by PSD-FL-137A.**	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment **3** of **4**

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **a) Segment 1 of 4.** **b) Segment 2 of 4.** **c) Segment 3 of 4: Combustion of SK Fiber rejects, emissions related to tons burned.** **d) Segment 4 of 4.**	
2. Source Classification Code (SCC) **10100501**	
3. SCC Units: **tons burned.**	
4. Maximum Hourly Rate: **1.8 ton**	5. Maximum Annual Rate: **93,302 ton**
6. Estimated Annual Activity Factor: **93,302 ton**	
7. Maximum Percent Sulfur: **0.10% (permit)**	8. Maximum Percent Ash: **5%**
9. Million Btu per SCC Unit: **2,535 Btu/lb = 5.07 MM Btu/ton**	
10. Segment Comment: **Limits based on 210 CY/day per PSD-FL-137A.**	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 4 of 4

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **a) Segment 1 of 4.** **b) Segment 2 of 4.** **c) Segment 3 of 4:** **d) Segment 4 of 4. Full Flow Reheat Bypass (FFRB) (emissions related to tons coal burned.)**	
2. Source Classification Code (SCC) **10100217**	
3. SCC Units: **tons burned.**	
4. Maximum Hourly Rate: **29 tph**	5. Maximum Annual Rate: **19,000 tpy**
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur: **0.05%(permit)**	8. Maximum Percent Ash: **18.0 (previous application)**
9. Million Btu per SCC Unit: **24.0**	
10. Segment Comment: **Limited by permit PSD-FL-137A.**	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	016	027	EL
PM10	016	027	EL
NO_X	032/107	027	EL
SO_2	041	027	EL
CO	033	027	EL
VOC	027		EL
PB	016	027	EL
H021 (Be)	016	027	EL
H114 (Hg)	016	027	EL
SAM (H_2SO_4 Mist)	041	027	EL
FL	041	027, 016	EL
Ammonia			EL
H106	041	027	NS

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 1 of 12

1. Pollutant Emitted: SO_2	
2. Total Percent Efficiency of Control: **(Qtrly. Report 4-1 to 6-30-94)**	**89 to 95 %**
3. Primary Control Device Code: **041**	
4. Secondary Control Device Code: **027**	
5. Potential Emissions: **255.1** lb/hour	**866** tons/year
6. Synthetically Limited? [X] Yes [ ] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **0.24 lb/MM BTU hourly 0.20 lb/MM BTU annually** Reference: **Permit PA-88-24A, PSD-FL-137A**	
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [X] 5	
10. Calculation of Emissions: **See attached calculations**	
11. Pollutant Potential/Estimated Emissions Comment: **Limited by PSD-FL-137A.**	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **See comment.**
4. Equivalent Allowable Emissions: **255** lb/hour **866** tons/year
5. Method of Compliance: **Continuous Emissions Monitoring Method 6,6c or 8 and Method 19**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **Permit PA-88-24A** **PSD-FL-137A** **3-hour rolling average for SO_2 = 0.24 lb/MMBtu** **12-month rolling average for SO_2 = 0.20 lb/MMBtu**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 2 of 12

1. Pollutant Emitted: **CO**	
2. Total Percent Efficiency of Control:	%
3. Primary Control Device Code: **033**	
4. Secondary Control Device Code: **027**	
5. Potential Emissions: **186** lb/hour	**758** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **0.175 lbs/MM BTU** Reference: **PSD-FL-137A**	
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5	
10. Calculation of Emissions: **PSD-FL-137A**	
11. Pollutant Potential/Estimated Emissions Comment: **Permit limits to 0.175 lbs CO/MM BTU, 1063 MM BTU/hr, 186 lbs CO/hr, 758 tpy CO**	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **See Comment.**
4. Equivalent Allowable Emissions: **186** lb/hour **758** tons/year
5. Method of Compliance: **Continuous Emissions Monitoring and Method 10**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **8-hr rolling average for CO = 0.175 lbs/MMBtu**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 3 of 12

1. Pollutant Emitted: **NO_x**		
2. Total Percent Efficiency of Control: **Estimated**		**54%**
3. Primary Control Device Code: **032**		
4. Secondary Control Device Code: **027**		
5. Potential Emissions:	**180.7** lb/hour	**736.1** tons/year
6. Synthetically Limited? [X] Yes [ ] No		
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____	tons/year
8. Emission Factor: **0.17 lb/MM BTU** Reference: **PSD-FL-137A**		
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [X] 5		
10. Calculation of Emissions: **PSD-FL-137A table**		
11. Pollutant Potential/Estimated Emissions Comment: **PSD-FL-137A table** **NO_x limit to 0.17 lbs/MM BTU, 180.7 lbs/hr, 736.1 tpy, 1063 MM BTU/hr**		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **See comment.**
4. Equivalent Allowable Emissions: **180.7** b/hour **736.1** tons/year
5. Method of Compliance: **Continuous Emissions Monitoring and Method 7, 7A, B, C, D or E**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **30-day rolling avg. for NO_x = 0.17 lb/MMBtu**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 4 of 12

1. Pollutant Emitted: **VOC**	
2. Total Percent Efficiency of Control:	%
3. Primary Control Device Code: **027**	
4. Secondary Control Device Code:	
5. Potential Emissions: **16.0** lb/hour	**65** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **0.015** Reference: **PSD-FL-137A**	
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5	
10. Calculation of Emissions: **PSD-FL-137A table**	
11. Pollutant Potential/Estimated Emissions Comment: **Permit limits to 0.015 lb/MM Btu VOC** **1063 MM BTU/hr** **16.0 lb/hr** **65 tpy**	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **See comment.**
4. Equivalent Allowable Emissions: **16.0** lb/hour **65** tons/year
5. Method of Compliance: **Method 18 or 25**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **0.015 lb/MM Btu VOC**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 5 of 12

1. Pollutant Emitted: **PM (TSP)**		
2. Total Percent Efficiency of Control:		**99.97%**
3. Primary Control Device Code: **016**		
4. Secondary Control Device Code: **027**		
5. Potential Emissions:	**19.1** lb/hour	**78** tons/year
6. Synthetically Limited? [X] Yes [ ] No		
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____	tons/year
8. Emission Factor: **0.018 lb/MM Btu** Reference: **PSD-FL-137A**		
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [X] 5		
10. Calculation of Emissions: **PSD-FL-137A**		
11. Pollutant Potential/Estimated Emissions Comment: **Permit limits to 19.1 lb/hr, 78 tpy, 0.018 lbs/MM Btu**		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**	
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units: **See comment.**	
4. Equivalent Allowable Emissions:	**19.1** lb/hour **78** tons/year
5. Method of Compliance: **Method 5 or 17, 40 CFR App. A**	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **0.018 lbs/MM Btu**	

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 6 of 12

1. Pollutant Emitted: **PM_{10}**	
2. Total Percent Efficiency of Control:	%
3. Primary Control Device Code: **016**	
4. Secondary Control Device Code: **027**	
5. Potential Emissions: **19.1** lb/hour	**78** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **0.018 lb/MM Btu** Reference: **PSD-FL-137A**	
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5	
10. Calculation of Emissions: **PSD-FL-137A, PM10 = PM (or TSP)**	
11. Pollutant Potential/Estimated Emissions Comment: **Permit limits to 19.1 lb/hr, 78 tpy, 0.018 lbs/MM Btu**	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **See comment.**
4. Equivalent Allowable Emissions: **19.1** lb/hour **78** tons/year
5. Method of Compliance: **Method 201 or 201A**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **0.018 lb/MM Btu**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 7 of 12

1. Pollutant Emitted: **H_2SO_4 mist**
2. Total Percent Efficiency of Control: %
3. Primary Control Device Code: **041**
4. Secondary Control Device Code: **027**
5. Potential Emissions: **0.50** lb/hour **2.0** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year
8. Emission Factor: **4.66×10^{-4} lb/MM Btu** Reference: **PSD-FL-137A**
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5
10. Calculation of Emissions: **PSD-FL-137A**
11. Pollutant Potential/Estimated Emissions Comment:

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**	
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units: **See comment.**	
4. Equivalent Allowable Emissions:	**0.50** lb/hour **2.0** tons/year
5. Method of Compliance: **Method 8**	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **4.66 x 10^{-4} lb/MM Btu**	

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 8 of 12

1. Pollutant Emitted: **Flourides**
2. Total Percent Efficiency of Control: %
3. Primary Control Device Code: **041**
4. Secondary Control Device Code: **016, 027**
5. Potential Emissions: **0.79** lb/hour **3.2** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year
8. Emission Factor: **7.44 x 10^{-4} lb/MM Btu** Reference: **PSD-FL-137A**
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5
10. Calculation of Emissions: **PSD-FL-137A**
11. Pollutant Potential/Estimated Emissions Comment:

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**	
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units: **See comment.**	
4. Equivalent Allowable Emissions:	**0.79** lb/hour **3.2** tons/year
5. Method of Compliance: **Method 13A or B**	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **7.44×10^{-4} lb/MM Btu**	

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 9 of 12

1. Pollutant Emitted: **Lead**
2. Total Percent Efficiency of Control: **99.97%** **(Estimate assumes capture efficiency same as for particulates)**
3. Primary Control Device Code: **016**
4. Secondary Control Device Code: **027**
5. Potential Emissions: **0.06** lb/hour **0.26** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year
8. Emission Factor: **6.03 x 10^{-5} lb/MM Btu** Reference: **PSD-FL-137A**
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5
10. Calculation of Emissions: **PSD-FL-137A table.**
11. Pollutant Potential/Estimated Emissions Comment:

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: **See comment.**		
4. Equivalent Allowable Emissions:	**0.06** lb/hour	**0.26** tons/year
5. Method of Compliance: **Method 12**		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **6.03 x 10^{-5} lb/MM Btu**		

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 10 of 12

1. Pollutant Emitted: **Mercury**	
2. Total Percent Efficiency of Control:	%
3. Primary Control Device Code: **016**	
4. Secondary Control Device Code: **027**	
5. Potential Emissions: **0.03** lb/hour	**0.13** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **2.89 x 10^{-5} lb/MM Btu** Reference: **PSD-FL-137A**	
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5	
10. Calculation of Emissions: **PSD-FL-137A table.**	
11. Pollutant Potential/Estimated Emissions Comment:	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**	
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units: **See comment.**	
4. Equivalent Allowable Emissions: **0.03** lb/hour	**0.13** tons/year
5. Method of Compliance: **Method 101A**	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **2.89 x 10^{-5} lb/MM Btu**	

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 11 of 12

1. Pollutant Emitted: **Beryllium**
2. Total Percent Efficiency of Control: **99.97%** **(Estimate assumes capture efficiency same as for particulates)**
3. Primary Control Device Code: **016**
4. Secondary Control Device Code: **027**
5. Potential Emissions: **0.01** lb/hour **0.04** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year
8. Emission Factor: **8.70 x 10^{-6} lb/MM Btu** Reference: **PSD-FL-137A**
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [**X**] 5
10. Calculation of Emissions: **PSD-FL-137A table.**
11. Pollutant Potential/Estimated Emissions Comment:

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: **AMBIENT**
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: **See comment.**
4. Equivalent Allowable Emissions: **0.01** lb/hour 0.04 tons/year
5. Method of Compliance: **Method 104**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): **PSD-FL-137A** **8.70 x 10^{-6} lb/MM Btu**

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 12 of 12

1. Pollutant Emitted: **Ammonia (NH_3)**	
2. Total Percent Efficiency of Control:	
3. Primary Control Device Code:	
4. Secondary Control Device Code:	
5. Potential Emissions:	**7.91** lb/hour **34.7** tons/year
6. Synthetically Limited? [**X**] Yes [ ] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **10 ppmvd @ 100% capacity** Reference: **PSD-FL-137A**	
9. Emissions Method Code: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [X] 5	
10. Calculation of Emissions: **See attached calculations.**	
11. Pollutant Potential/Estimated Emissions Comment: **10 ppmvd @ coal 100% capacity** **30 ppmvd @ oil burning (start up use only)**	

F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field 1. Most emissions units will be subject to a "subtype VE" limit only.

Visible Emissions Limitation: Visible Emissions Limitation **1** of **1**

1. Visible Emissions Subtype: **VE, VES**	
2. Basis for Allowable Opacity:	[**X**] Rule [**X**] Other
3. Requested Allowable Opacity: Normal Conditions: **20** % Exceptional Conditions: **27** % Maximum Period of Excess Opacity Allowed: **6** min/hour	
4. Method of Compliance: **COM, Method 9**	
5. Visible Emissions Comment: **27% opacity for oil-burning during startup (40 CFR 60.42a2)** **PSD-FL-137A.**	

G. CONTINUOUS MONITOR INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are required by rule or permit to install and operate one or more continuous emission, opacity, flow, or other type monitors. A separate set of continuous monitor information (Fields 1-6) must be completed for each monitoring system required.

Continuous Monitoring System: Continuous Monitor **1** of **5**

1. Parameter Code: **NO_X**	
2. CMS Requirement:	[**X**] Rule [ ] Other
3. Monitor Information: Manufacturer: **Thermo Electron** Model Number: **42**	Serial Number: **42-49661-284**
4. Installation Date (DD-MON-YYYY):	
5. Performance Specification Test Date (DD-MON-YYYY):	**21-JAN-1994**
6. Continuous Monitor Comment: **On Boiler C Baghouse Flue**	

Continuous Monitoring System: Continuous Monitor **2** of **5**

1. Parameter Code: **SO_2**
2. CMS Requirement: [**X**] Rule [ ] Other
3. Monitor Information: Manufacturer: **Thermo Electron** Model Number: **43A** Serial Number: **43A-30811-263**
4. Installation Date (DD-MON-YYYY):
5. Performance Specification Test Date (DD-MON-YYYY): **21-JAN-1994**
6. Continuous Monitor Comment:

Continuous Monitoring System: Continuous Monitor **3** of **5**

1. Parameter Code: **CO**
2. CMS Requirement: [**X**] Rule [ ] Other
3. Monitor Information: Manufacturer: **Thermo Electron** Model Number: **48** **Serial Number: 48-39620-261**
4. Installation Date (DD-MON-YYYY):
5. Performance Specification Test Date (DD-MON-YYYY): **21-JAN-1994**
6. Continuous Monitor Comment:

Continuous Monitoring System: Continuous Monitor **4** of **5**

1. Parameter Code:	**CO_2**
2. CMS Requirement:	[**X**] Rule [ ] Other
3. Monitor Information: Manufacturer: **Automated Custom Systems** Model Number: **3300**	Serial Number: **N2E0294T**
4. Installation Date (DD-MON-YYYY):	
5. Performance Specification Test Date (DD-MON-YYYY):	**21-JAN-1994**
6. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor **5** of **5**

1. Parameter Code:	**VE**
2. CMS Requirement:	[**X**] Rule [ ] Other
3. Monitor Information: Manufacturer: **Enviroplan** Model Number: **CEMOP-281**	Serial Number: **29177**
4. Installation Date (DD-MON-YYYY):	
5. Performance Specification Test Date (DD-MON-YYYY):	**06-FEB-1994 and 13-FEB-1994**
6. Continuous Monitor Comment:	

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[X] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:

PM	[X] C	[ ] E	[ ] Unknown
SO2	[X] C	[ ] E	[ ] Unknown
NO2	[X] C	[ ] E	[ ] Unknown

4. Baseline Emissions:

PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment:

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID: 5402-067-B1 [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: **March 17,1994** [ ] Not Applicable
6. Procedures for Startup and Shutdown [X] Attached, Document ID: **B03** [ ] Not Applicable
7. Operation and Maintenance Plan [X] Attached, Document ID: **B04** [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Enhanced Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable **RESERVED.**

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [ ] Not Applicable
PSD-FL-137 on file at FL DEP

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

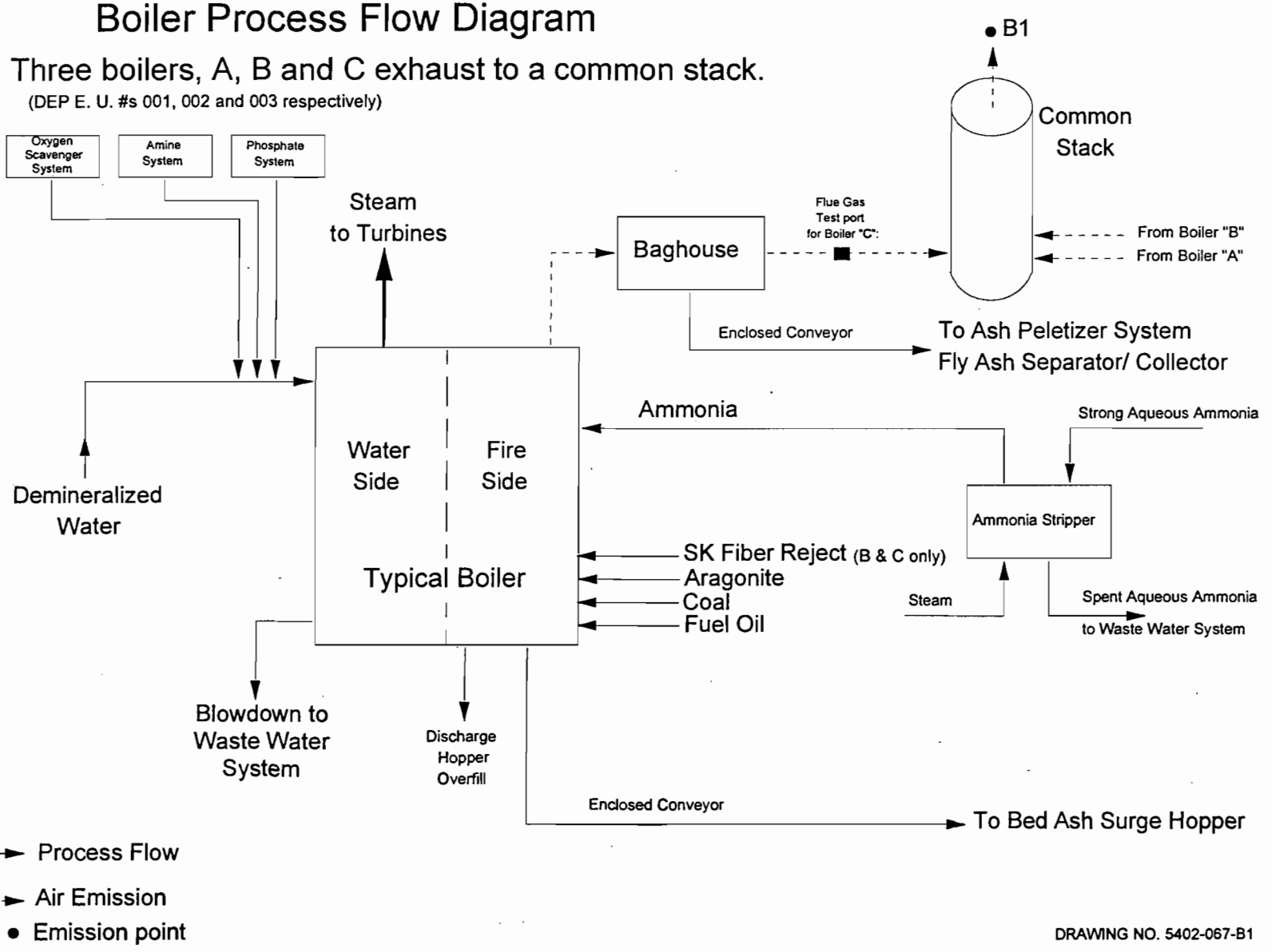
[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

Boiler Process Flow Diagram

Three boilers, A, B and C exhaust to a common stack.

(DEP E. U. #s 001, 002 and 003 respectively)



DRAWING NO. 5402-067-B1

U.S. Generating - Cedar Bay - Title V Boilers

FUEL USE ANALYSIS (based on PSD-FL-137A and PA8824A)

The permits specify a number of restrictions on boiler input. The objective of the following evaluation is to determine if any one input is more limiting than the others. This is done by converting the allowable amounts of the different fuels to Btu input to the boilers. The permit limits total emissions as well as emissions per heat input. Therefore, the following analysis is needed to determine if fuel use limitations significantly affect the heat input to the boilers. Since heat value of the fuels can vary, minor differences (e.g., less than 10%) do not constitute a more or less limiting value. Only the heat input limitations are required to estimate emissions for comparison to the annual emission limits specified in the permit.

Max Coal Charging Rate, per PSD-FL-137 Condition II.A.1.a.:

$CoalHour := 104000 \cdot \frac{lb}{hr}$ $CoalMonth := 39000 \cdot \frac{ton}{month}$ $CoalYear := 390000 \cdot tpy$

Max Btu Input

$BtuHour := 1063 \cdot \frac{MMBtu}{hr}$ per unit PSD-FL-137 Condition II.A.1.c.

$BtuYear3 := 25.98 \cdot 10^6 \cdot \frac{MMBtu}{yr}$ Total for 3 Boilers PSD-FL-137 Condition II.A.1.g.

Note annual Btu Input is limited as a sum for all 3 boilers. Annual for one boiler, based on hourly rate:

$BtuYear := BtuHour \cdot 8760 \cdot \frac{hr}{yr}$ $BtuYear = 9.312 \cdot 10^6 \cdot \frac{MMBtu}{yr}$ per boiler unit

Comparing the permitted annual for the 3 boilers to 3 times the annual for one boiler indicates a 93% capacity limitation.

$BtuYear \cdot 3 = 27935640 \cdot \frac{MMBtu}{yr}$ $\frac{BtuYear3}{BtuYear \cdot 3} = 93 \cdot \%$ Permitted c apacity

Compare Coal and Btu Input, based on 1994 average 12,008 Btu/lb coal

$CoalBtu := 12008 \cdot \frac{Btu}{lb}$ $CoalYear \cdot CoalBtu = 9366240 \cdot \frac{MMBtu}{yr}$ *, which is approx. equal to BtuYear*

$CoalBtu \cdot CoalHour = 1249 \cdot \frac{MMBtu}{hr}$ which is higher than the 1063 MMBtu/hr allowed, thus the rate is limited by heat input/hr.

Furthermore,

$CoalYear \cdot CoalBtu \cdot 3 = 28098720 \cdot \frac{MMBtu}{yr}$ but $BtuYear3 = 25980000 \cdot \frac{MMBtu}{yr}$

so annual usage is also limited by annual heat input.

MaxOil Input

$OilBtuHour := 380 \cdot \frac{MMBtu}{hr}$ per Boiler, from PSD FL-137A Condition II.A.1.e.

$OilBtu := 140500 \cdot \frac{BTU}{gal}$ $OilHour := \frac{OilBtuHour}{OilBtu}$ $OilHour = 2705 \cdot \frac{gal}{hr}$ OilBtu from AP42 App. A

$\frac{BtuHour}{OilBtu} = 7565.8 \cdot \frac{gal}{hr}$ Oil input based on max. Btu/hour in condition II.A.1.c.

$3 \cdot OilHour = 8113.9 \cdot \frac{gal}{hr}$

The permit specifies a maximum oil use of 8,000 gal/hr for the three boilers in Condition II.B.3., which is only slightly lower than the calculated gal/hr based on maximum oil Btu/hr for each boiler. However, the permit does not limit the oil gal/hr per boiler, allowing some flexibility between boilers.

$OilYear3 := 1900000 \cdot \frac{gal}{yr}$

$\frac{OilYear3}{3} = 633333.3 \cdot \frac{gal}{yr}$

Permit specifies annual maximum for the three boilers, not each boiler. Permit also specifies hourly maximum Btu input for each boiler, but not in terms of gallons per hour. Thus, if two boilers burned only coal, one boiler could burn 1,900,000 gal/yr (not a likely scenario). Title V permit application should indicate the highest value for flexibility, but comment on the total annual allowable in the fuel segment comment section.

$OilBtuHour \cdot 8760 \cdot \frac{hr}{yr} = 3.329 \cdot 10^6 \cdot \frac{MMBtu}{yr}$, which is less than $BtuYear = 9.312 \cdot 10^6 \cdot \frac{MMBtu}{yr}$

$OilYear3 \cdot OilBtu = 266950 \cdot \frac{MMBtu}{yr}$, which is also less than $BtuYear3 = 2.598 \cdot 10^7 \cdot \frac{MMBtu}{yr}$

$\frac{OilYear3 \cdot OilBtu}{BtuYear3} = 1.03 \cdot \%$ of total Btu input allowed. $\frac{OilYear3 \cdot OilBtu}{OilBtuHour} = 702.5 \cdot \frac{hr}{yr}$

Conclusions:

1. *Oil use cannot exceed maximum annual Btu input, and does not significantly affect the total annual Btu input to the boilers*

2. *No one boiler may operate more than 702 hr/yr on oil alone at the maximum oil rate.*

3. *Specifying the oil use by the boilers does not affect the potential emissions as allowed by the permit.*

Max SKFiber Rate (Boilers B and C)

$SKDay := 210 \cdot \frac{CY}{day}$ $SKYear := 69588 \cdot \frac{CY}{yr}$ $SKBtu := 2535 \cdot \frac{Btu}{lb}$ from Table from Cedar Bay, faxed Dec. 21, 1994

SKFiber density calculation:

$DryWooddens := \frac{25 + 48}{2} \cdot \frac{lb}{ft^3}$ $DryWooddens = 36.5 \cdot \frac{lb}{ft^3}$ range from AP-42 Appendix A

$H2Odens := 62.5 \cdot \frac{lb}{ft^3}$ from AP-42 Appendix A

Basis: 100 lbs wet wood

From fax from Cedar Bay, Dec. 21, 1994, $KrillMoist := 66.59 \cdot \%$

Assume wet wood swelling at 10%

$WetVolume := \frac{(1 - KrillMoist) \cdot 100 \cdot lb}{DryWooddens} \cdot 110 \cdot \%$ $WetVolume = 1.01 \cdot ft^3$

$SKdens := \frac{100 \cdot lb}{WetVolume}$ $SKdens = 99.3 \cdot \frac{lb}{ft^3}$

$SKDay := SKDay \cdot SKdens$ $SKYear := SKYear \cdot SKdens$ $SKDay \cdot SKBtu = 59.5 \cdot \frac{MMBtu}{hr}$

$SKDay = 282 \cdot \frac{ton}{day}$ $SKYear = 93302 \cdot tpy$ $SKYear \cdot SKBtu = 473042 \cdot \frac{MMBtu}{yr}$

Maximum % Btu contribution from SK Fiber: $\frac{SKYear \cdot SKBtu}{BtuYear} = 5.08 \cdot \%$

At a low Btu value, and only 5% permitted input quantity on Btu basis, the SK Fiber use does not significantly affect the amount of coal allowed by permit on Btu basis.

From the above analysis, one concludes BTU input is no less limiting than the fuel use specified by the permit. Adding Fuel Oil and/or SK Fiber to coal increases heat input above the total annual heat input as limited by the permit, thus the permit heat input specification is the limiting factor for annual emissions estimates.

POLLUTANT ANALYSIS (PER PSD FL-137A, PA8824A)

The first table shows the emission limits specified in the permits. The second table shows the emissions based on permitted heat input to the boilers.

Flue gas emissions from each CFB shall not exceed the following:

Emission Limitations

Pollutant	lbs/MMBtu	lbs/hr	TPY	TPY for 3 CFBs
CO (8 hr rolling avg)	0.175	186	758	2,273
NOx (30 day rolling avg)	0.17	180.7	736.1	2,208
SO2 (3 hr rolling avg)	0.24	255.1	--	--
SO2 (12 month rolling avg)	0.20	--	866	2,598
VOC	0.015	16.0	65	195
PM/PM10	0.018	19.1	78	234
H2SO4 mist	4.66E-04	0.50	2.0	6.1
Fluorides	7.44E-04	0.79	3.2	9.7
Lead	6.03E-05	0.06	0.26	0.78
Mercury	2.89E-05	0.03	0.13	0.38
Beryllium	8.70E-06	0.01	0.04	0.11

Emissions Calculated Max BTU Boiler Input
@1,063 MMBtu/hr and @9,312,000 MMBtu/yr each
Total Input for 3 Boilers is 25.98E+06 MMBtu/yr

Calculated Emissions Based on Btu Limits

Pollutant	lbs/MMBtu	lbs/hr	TPY	TPY for 3 CFBs	93% of TPY
CO (8 hr rolling avg)	0.175	186.025	814.8	2,273	757.76
NOx (30 day rolling avg)	0.17	180.71	791.52	2,208	736.11
SO2 (3 hr rolling avg)	0.24	255.12	--	--	--
SO2 (12 month rolling avg)	0.20	--	931.20	2,598	866.02
VOC	0.015	15.95	69.84	195	64.95
PM/PM10	0.018	19.13	83.81	234	77.94
H2SO4 mist	4.66E-04	0.50	2.17	6	2.02
Fluorides	7.44E-04	0.79	3.46	10	3.22
Lead	6.03E-05	0.06	0.28	1	0.26
Mercury	2.89E-05	0.03	0.13	0	0.13
Beryllium	8.70E-06	0.01	0.04	0	0.04

The allowable emissions as limited in the permit are *no less* stringent than those calculated by Btu input to the boilers, and should therefore be used as potential emissions for Title V purposes.

The permit also limits ammonia slip to 10 ppmvd when burning coal at 100% capacity, and 30 ppmvd when burning oil.

AMMONIA EMISSIONS :

$ppm := \frac{1}{1000000}$ $Rg := \frac{0.7302 \cdot ft^3 \cdot atm}{lb \cdot mole \cdot R}$ Universal Gas Constant

Permitted @Coal burning @100% capacity $PermNH3coal := 10 \cdot ppm$
Permitted @Oil burning (startup only) $PermNH3oil := 30 \cdot ppm$ dry volume basis.

$MWNH3 := 17.04 \cdot \frac{lb}{lb \cdot mole}$ $P := 1 \cdot atm$ $StdTemp := (460 + 68) \cdot R$

$OPHR := 8760 \cdot \frac{hr}{yr}$

Allowable:

$DSCFMA := 227781 \cdot dscfm$ Test, Interpoll Laboratories, March 17, 1994 Report

$DSCFMB := 231026 \cdot dscfm$

$DSCFMC := 238774 \cdot dscfm$

Use higher flow rate for potential, scaled for higher combustion rates, with estimate safety factor:

$DSCFM := DSCFMC \cdot 1.25$

$PermA := \frac{MWNH3 \cdot P \cdot PermNH3coal}{Rg \cdot StdTemp} \cdot (DSCFM)$

$PermA = 7.91 \cdot \frac{lb}{hr}$ $PermA \cdot OPHR = 34.7 \cdot tpy$ if only coal burned.

The permitted ammonia slip when burning oil is 3 times that when burning coal. However, the flue gas rate will be much smaller if only burning oil. Furthermore, in practice, ammonia is provided during the transition from oil burning to coal burning, and then during coal only, rather than when burning oil only. Thus, the slip for oil burning is not considered here.

$PermA \cdot OPHR = 34.7 \cdot tpy$ Potential to Emit.

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L 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. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

[ ] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[X] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Ash Handling Fugitives		
2. Emissions Unit Identification Number: [X] No Corresponding ID [ ] Unknown		
3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters):		

Emissions Unit Control Equipment

A.

1. Description (limit to 200 characters): Wetting approximately 50% of time for vehicle traffic.
2. Control Device or Method Code: 108

F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): AF1: Continuous Drop - Ash - Unclass
1. Source Classification Code (SCC): Unclassified
3. SCC Units: Tons Throughput

4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0
6. Estimated Annual Activity Factor: 2,021 TPY	
7. Maximum Percent Sulfur:	8. Maximum Percent 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 and Associated Operating Method/Mode) (limit to 500 characters):

AF1: Continuous Drop - Ash - Unclass.
AF2: Continuous Drop - Pellet Material - Unclass.
AF3: Batch Drop - Pellet Material - Unclass.
AF5: Batch Drop - Pellet -/Ash Material - Unclass.
AF6: Batch Drop - Pellet/Ash Material - Unclass.
AF7: Unpaved Road - Ash

2. Source Classification Code (SCC): Unclassified / 30300519

3. SCC Units: Tons Throughput / Vehicle Miles Traveled

4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0

6. Estimated Annual Activity Factor: 10,000 TPY / 117 VMT

7. Maximum Percent Sulfur:	8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

10. Segment Comment (limit to 200 characters):

These fugitive emissions may occur during or as a result of operation of the ash pelletizing system.

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown
4. Baseline Emissions:			
PM		lb/hour	tons/year
SO2		lb/hour	tons/year
NO2			tons/year
5. PSD Comment (limit to 200 characters):			

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L 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. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] 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.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): A1: Bed Ash Surge Hopper, ASA FLT-1		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [ ] Unknown **010**		
3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters):		

Emissions Unit Control Equipment

A.

1. Description (limit to 200 characters): Fabric Filter - Medium Temp.
2. Control Device or Method Code: 018

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Details

1. Initial Startup Date: 25-Jan-1994		
2. Long-term Reserve Shutdown Date:		
3. Package Unit: Manufacturer:	Model Number:	
4. Generator Nameplate Rating:	MW	
5. Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Afterburner Temperature:		°F seconds °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate: 670 acfm		
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters): Design specification for air flow rate.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:		
24 hours/day		7 days/week
52 weeks/year		8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711	**Material Handling, Sizing, Screening, Crushing, and Grinding Operations**
F.A.C. 62-297.401 (5)	**EPA Method 5**
F.A.C. 62-297.401 (9)	**EPA Method 9**
F.A.C. 62-297.401 (17)	**EPA Method 17**

E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: A1	
2. Emission Point Type Code: [X] 1 [ ] 2 [ ] 3 [ ] 4	
3. Descriptions of Emissions 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: [ ] D [ ] F [X] H [ ] P [ ] R [ ] V [ ] W	
6. Stack Height:	feet
7. Exit Diameter:	feet
8. Exit Temperature:	96°F

9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	125 feet
13. Emission Point UTM Coordinates: Zone: East (km): 441.667 North (km): 3365.625	
14. Emission Point Comment (limit to 200 characters):	

F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):

   Baghouse Dust Collector for Bed Ash Hopper
   Mineral Products — Bulk Materials
   Storage Bins — Misc/Not Classified

2. Source Classification Code (SCC): 30510299

3. SCC Units: Tons Processed

4. Maximum Hourly Rate: 0

5. Maximum Annual Rate: 0

6. Estimated Annual Activity Factor: 70,000 TPY

7. Maximum Percent Sulfur:

8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

10. Segment Comment (limit to 200 characters):

    Fabric filter emissions calculated by air flow rate x outlet concentration.

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**
PM10	**018**		**EL**

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM		
2. Total Percent Efficiency of Control:		>99%
3. Potential Emissions:	0.016 lb/hour	0.071 tons/year
4. Synthetically Limited? [ ] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year	
6. Emission Factor: 0.003 gr/dscf Reference: Permit		
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5		
8. Calculation of Emissions (limit to 600 characters): See calculation for A1 at end of Ash Handling section.		
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.016 lb/hour	0.071 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Emissions are function of air flow rate. Permit allowable is less than RULE.		

Pollutant Detail Information:

1. Pollutant Emitted: PM10

2. Total Percent Efficiency of Control: >99%

3. Potential Emissions: 0.016 lb/hour 0.071 tons/year

4. Synthetically Limited?
   [ ] Yes [X] No

5. Range of Estimated Fugitive/Other Emissions:
   [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year

6. Emission Factor: 0.003 gr/dscf
   Reference: Permit

7. Emissions Method Code:
   [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5

8. Calculation of Emissions (limit to 600 characters):

   See calculation for A1 at end of Ash Handling section.

9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.016 lb/hour	0.071 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Emissions are function of air flow rate. Permit allowable is less than RULE.		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE
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: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters):

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:		
PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment (limit to 200 characters):

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID: _____ [ ] Not Applicable [ ] Waiver Requested 5402-067-A1, 5402-067-A2
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: 3-18-94 [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [X] Attached, Document ID: **CB04** [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [ ] Not Applicable
PSD FL-137 on file at FL DEP.

13. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable RESERVED

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L 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. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] 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.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): A2: Bed Ash Silo Separator Filter, ASA-CO-2		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [ ] Unknown 011		
3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters):		

Emissions Unit Control Equipment

A.

1. Description (limit to 200 characters): Fabric Filter - Medium Temp.
2. Control Device or Method Code: 017

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Details

1. Initial Startup Date: 25-Jan-1994		
2. Long-term Reserve Shutdown Date:		
3. Package Unit: Manufacturer:	Model Number:	
4. Generator Nameplate Rating:	MW	
5. Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Afterburner Temperature:		°F seconds °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	5,345 acfm	
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters): Emissions related to air flow rate.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:			
	24 hours/day	7 days/week	
	52 weeks/year	8,760 hours/year	

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711	**Material Handling, Sizing, Screening, Crushing, and Grinding Operations**
F.A.C. 62-297.401 (5)	**EPA Method 5**
F.A.C. 62-297.401 (9)	**EPA Method 9**
F.A.C. 62-297.401 (17)	**EPA Method 17**

E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: A2
2. Emission Point Type Code: [X] 1 [ ] 2 [ ] 3 [ ] 4
3. Descriptions of Emissions 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: [ ] D [ ] F [X] H [ ] P [ ] R [ ] V [ ] W
6. Stack Height: feet
7. Exit Diameter: feet
8. Exit Temperature: 223°F

9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	104 feet
13. Emission Point UTM Coordinates: Zone: East (km): 441.581 North (km): 3365.573	
14. Emission Point Comment (limit to 200 characters):	

F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):

   Baghouse for Bed Ash Silo
   Mineral Products — Bulk Materials
   Storage Bins — Misc/Not Classified

2. Source Classification Code (SCC): 30510299

3. SCC Units: Tons Processed

4. Maximum Hourly Rate: 0

5. Maximum Annual Rate: 0

6. Estimated Annual Activity Factor: 70,000 TPY

7. Maximum Percent Sulfur:

8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

10. Segment Comment (limit to 200 characters):

    Fabric filter emissions calculated by air flow rate x outlet concentration.

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**017**		**EL**
PM10	**017**		**EL**

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM

2. Total Percent Efficiency of Control: >99%

3. Potential Emissions: 0.104 lb/hour 0.46 tons/year

4. Synthetically Limited?
   [ ] Yes [X] No

5. Range of Estimated Fugitive/Other Emissions:
   [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year

6. Emission Factor: 0.003 gr/dscf
   Reference: Permit

7. Emissions Method Code:
   [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5

8. Calculation of Emissions (limit to 600 characters):

   See calculations for A2 at end of Ash Handling section.

9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):

   Emissions related to air flow rate.

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.104 lb/hour	0.046 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permit allowable is less than RULE.		

Pollutant Detail Information:

1. Pollutant Emitted: PM10

2. Total Percent Efficiency of Control: >99%

3. Potential Emissions: 0.104 lb/hour 0.46 tons/year

4. Synthetically Limited?
   [ ] Yes [X] No

5. Range of Estimated Fugitive/Other Emissions:
   [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year

6. Emission Factor: 0.003 gr/dscf
   Reference: Permit

7. Emissions Method Code:
   [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5

8. Calculation of Emissions (limit to 600 characters):

   See calculations for A2 at end of Ash Handling section.

9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):

   Emissions related to air flow rate.

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.104 lb/hour	0.046 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permit allowable is less than RULE.		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE
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: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters):

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:		
PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment (limit to 200 characters):

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID: _____ [ ] Not Applicable [ ] Waiver Requested 5402-067-A1, 5402-067-A2
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: April 1994 [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [X] Attached, Document ID: **CB04** [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [ ] Not Applicable
PSD FL-137 on file at FL DEP.

13. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable RESERVED

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L 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. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] 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.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): A3: Bed Ash Silo Vent Filter, ASA-FLT-3		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [X] Unknown		
3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters):		

Emissions Unit Control Equipment

A.

1. Description (limit to 200 characters): Fabric Filter - Low Temp.
2. Control Device or Method Code: 018

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Details

1. Initial Startup Date: 25-Jan-1994		
2. Long-term Reserve Shutdown Date:		
3. Package Unit: Manufacturer:	Model Number:	
4. Generator Nameplate Rating:	MW	
5. Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Afterburner Temperature:		°F seconds °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	1,800 acfm	
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters): Emissions related to air flow rate.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:		
	24 hours/day	7 days/week
	52 weeks/year	8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711	**Material Handling, Sizing, Screening, Crushing, and Grinding Operations**
F.A.C. 62-297.401 (5)	**EPA Method 5**
F.A.C. 62-297.401 (9)	**EPA Method 9**
F.A.C. 62-297.401 (17)	**EPA Method 17**

E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: A3
2. Emission Point Type Code: [X] 1 [ ] 2 [ ] 3 [ ] 4
3. Descriptions of Emissions 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: [ ] D [ ] F [X] H [ ] P [ ] R [ ] V [ ] W
6. Stack Height: feet
7. Exit Diameter: feet
8. Exit Temperature: 80°F

9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	104 feet
13. Emission Point UTM Coordinates: Zone: East (km): 441.581 North (km): 3365.573	
14. Emission Point Comment (limit to 200 characters):	

F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):

   Silo Vent Filter

   Mineral Products — Bulk Materials
   Storage Bins — Misc/Not Classified

2. Source Classification Code (SCC): 30510299

3. SCC Units: Tons Processed

4. Maximum Hourly Rate: 0

5. Maximum Annual Rate: 0

6. Estimated Annual Activity Factor: 70,000 TPY

7. Maximum Percent Sulfur:

8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

10. Segment Comment (limit to 200 characters):

    Fabric filter emissions calculated by air flow rate x outlet concentration.

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**
PM10	**018**		**EL**

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM		
2. Total Percent Efficiency of Control:		>99%
3. Potential Emissions:	0.045 lb/hour	0.20 tons/year
4. Synthetically Limited? [ ] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year	
6. Emission Factor: 0.003 gr/dscf Reference: Permit		
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5		
8. Calculation of Emissions (limit to 600 characters): See calculations for A3 at end of Ash Handling section.		
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Emissions related to air flow rate.		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.045 lb/hour	0.20 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permitted allowable is less than RULE. Emissions related to air flow rate.		

Pollutant Detail Information:

1. Pollutant Emitted: PM10			
2. Total Percent Efficiency of Control:			>99%
3. Potential Emissions:		0.045 lb/hour	0.20 tons/year
4. Synthetically Limited? [ ] Yes [X] No			
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3			_____ to _____ tons/year
6. Emission Factor: 0.003 gr/dscf Reference: Permit			
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5			
8. Calculation of Emissions (limit to 600 characters): See calculations for A3 at end of Ash Handling section.			
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Emissions related to air flow rate.			

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.045 lb/hour	0.20 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permitted allowable is less than RULE. Emissions related to air flow rate.		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE
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: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters):

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:		
PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment (limit to 200 characters):

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID: _____ [ ] Not Applicable [ ] Waiver Requested 5402-067-A1, 5402-067-A2
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: April 1994 [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [**X**] Attached, Document ID: **CB04** [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [X] Not Applicable
PSD FL-137 on file at FL DEP.

13. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable RESERVED

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L 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. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] 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.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): A4: Fly Ash Silo Separator ASA-CO1a		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [ ] Unknown 012		
3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters):		

Emissions Unit Control Equipment

A.

1. Description (limit to 200 characters): Fabric Filter - low temp.
2. Control Device or Method Code: 018

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Details

1. Initial Startup Date: 25-Jan-1994		
2. Long-term Reserve Shutdown Date:		
3. Package Unit: Manufacturer:	Model Number:	
4. Generator Nameplate Rating:	MW	
5. Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Afterburner Temperature:		°F seconds °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	5,974 acfm	
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters): From test data; air flow rate may vary. Emissions related to air flow rate.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:		
	24 hours/day	7 days/week
	52 weeks/year	8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62.296.711	**Materials Handling, Sizing, Screening, Crushing, and Grinding Operations**
F.A.C. 62-297.401 (5)	**EPA Method 5**
F.A.C. 62-297.401 (9)	**EPA Method 9**
62-297.401 (17)	**EPA Method 17**

E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: A4
2. Emission Point Type Code: [X] 1 [ ] 2 [ ] 3 [ ] 4
3. Descriptions of Emissions 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: [ ] D [ ] F [X] H [ ] P [ ] R [ ] V [ ] W
6. Stack Height: feet
7. Exit Diameter: feet
8. Exit Temperature: 197 °F

9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	138 feet
13. Emission Point UTM Coordinates: Zone: East (km): 441.581 North (km): 3365.596	
14. Emission Point Comment (limit to 200 characters):	

F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Baghouse on Fly Ash Separator Mineral Products Bulk Materials Pneumatic Conveyor Misc/Not Classified	
2. Source Classification Code (SCC): 30510299	
3. SCC Units: Tons Processed	
4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0
6. Estimated Annual Activity Factor: 136,145 TPY	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters): Fabric filter emissions calculated by air flow rate x outlet concentration.	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**
PM10	**018**		**EL**

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM

2. Total Percent Efficiency of Control: > 99 %

3. Potential Emissions: 0.12 lb/hour 0.53 tons/year

4. Synthetically Limited?
   [ ] Yes [X] No

5. Range of Estimated Fugitive/Other Emissions:
   [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year

6. Emission Factor: 0.003 gr/dscf
   Reference: permit

7. Emissions Method Code:
   [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5

8. Calculation of Emissions (limit to 600 characters):

   See calculation for A4 at end of Ash Handling section.

9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):

   Emissions related to air flow rate.

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.003 gr/dscf
4. Equivalent Allowable Emissions: 0.12 lb/hour 0.53 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification test.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permitted allowable less than RULE. Emissions related to air flow rate.

Pollutant Detail Information:

1. Pollutant Emitted: PM10	
2. Total Percent Efficiency of Control:	> 99 %
3. Potential Emissions: 0.12 lb/hour	0.53 tons/year
4. Synthetically Limited? [ ] Yes [X] No	
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
6. Emission Factor: 0.003 gr/dscf Reference: permit	
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5	
8. Calculation of Emissions (limit to 600 characters): See calculation for A4 at end of Ash Handling section.	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Emissions related to air flow rate.	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.12 lb/hour	0.53 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification test.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permitted allowable less than RULE. Emissions related to air flow rate.		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE	
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: EPA Method 9	
5. Visible Emissions Comment (limit to 200 characters):	

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:

PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:

PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment (limit to 200 characters):

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID:_____ [ ] Not Applicable [ ] Waiver Requested 5402-067-A1, 5402-067-A2
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: May 1994 [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [**X**] Attached, Document ID: **CB04** [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [ ] Not Applicable
PSD FL-137 on file at FL DEP.

13. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable RESERVED

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L 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. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] 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.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): A5: Fly Ash Silo Separator/Collector ASA-COlb		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [ ] Unknown 026		
3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: 49 49
6. Emissions Unit Comment (limit to 500 characters):		

Emissions Unit Control Equipment

A.

1. Description (limit to 200 characters): Fabric Filter - low temp.
2. Control Device or Method Code: 018

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Details

1. Initial Startup Date: 25-Jan-1994		
2. Long-term Reserve Shutdown Date:		
3. Package Unit: Manufacturer:	Model Number:	
4. Generator Nameplate Rating:	MW	
5. Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Afterburner Temperature:		°F seconds °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	6,074 acfm	
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters): From test data; air flow rate may vary. Emissions related to air flow rate.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:		
	24 hours/day	7 days/week
	52 Weeks/year	8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711	**Materials Handling, Sizing, Screening, Crushing, and Grinding Operations**
F.A.C. 62-297.401 (5)	**EPA Method 5**
F.A.C. 62-297.401 (9)	**EPA Method 9**
62-297.401 (17)	**EPA Method 17**

E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: A5
2. Emission Point Type Code: [X] 1 [ ] 2 [ ] 3 [ ] 4
3. Descriptions of Emissions 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: [ ] D [ ] F [X] H [ ] P [ ] R [ ] V [ ] W
6. Stack Height: feet
7. Exit Diameter: feet
8. Exit Temperature: 200°F

9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	138 feet
13. Emission Point UTM Coordinates: Zone: East (km): 441.581 North (km): 3365.596	
14. Emission Point Comment (limit to 200 characters):	

F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):

   Baghouse for Ash Separator
   Mineral Products — Bulk Materials
   Pneumatic Conveyor — Misc/Not Classified

2. Source Classification Code (SCC): 30510299

3. SCC Units: Tons Processed

4. Maximum Hourly Rate: 0

5. Maximum Annual Rate: 0

6. Estimated Annual Activity Factor: 70,000 TPY

7. Maximum Percent Sulfur:

8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

10. Segment Comment (limit to 200 characters):

    Fabric filter emissions calculated by air flow rate x outlet concentration.

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**
PM10	**018**		**EL**

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM			
2. Total Percent Efficiency of Control:			>99%
3. Potential Emissions:		0.12 lb/hour	0.54 tons/year
4. Synthetically Limited? [ ] Yes [X] No			
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3		_____ to _____	tons/year
6. Emission Factor: 0.003 gr/dscf Reference: permit			
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5			
8. Calculation of Emissions (limit to 600 characters): See calculation for A5 at end of Ash Handling section.			
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Emissions related to air flow rate.			

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.12 lb/hour	0.54 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permitted allowable less than RULE. Emissions related to air flow rate.		

Pollutant Detail Information:

1. Pollutant Emitted: PM10			
2. Total Percent Efficiency of Control:			>99%
3. Potential Emissions:		0.12 lb/hour	0.54 tons/year
4. Synthetically Limited? [ ] Yes [X] No			
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year			
6. Emission Factor: 0.003 gr/dscf Reference: permit			
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5			
8. Calculation of Emissions (limit to 600 characters): See calculation for A5 at end of Ash Handling section.			
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Emissions related to air flow rate.			

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.12 lb/hour	0.54 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permitted allowable less than RULE. Emissions related to air flow rate.		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype:	VE
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:	EPA Method 9
5. Visible Emissions Comment (limit to 200 characters):	

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[ ] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown
4. Baseline Emissions:			
PM		lb/hour	tons/year
SO2		lb/hour	tons/year
NO2			tons/year
5. PSD Comment (limit to 200 characters):			

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID:_____ [ ] Not Applicable [ ] Waiver Requested 5402-067-A1, 5402-067-A2
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: May, 1994 [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [**X**] Attached, Document ID: **CB04** [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [ ] Not Applicable
PSD FL-137 on file at FL DEP.

13. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable Reserved

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L 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. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] 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.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): A6: Fly Ash Silo Vent Filter, ASA-FLT-2		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [X] Unknown		
3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters):		

Emissions Unit Control Equipment

A.

1. Description (limit to 200 characters): Fabric Filter - Low Temp.
2. Control Device or Method Code: 018

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Details

1. Initial Startup Date: 25-Jan-1994		
2. Long-term Reserve Shutdown Date:		
3. Package Unit: Manufacturer:	Model Number:	
4. Generator Nameplate Rating:	MW	
5. Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Afterburner Temperature:		°F seconds °F

Emissions Unit Operating Capacity

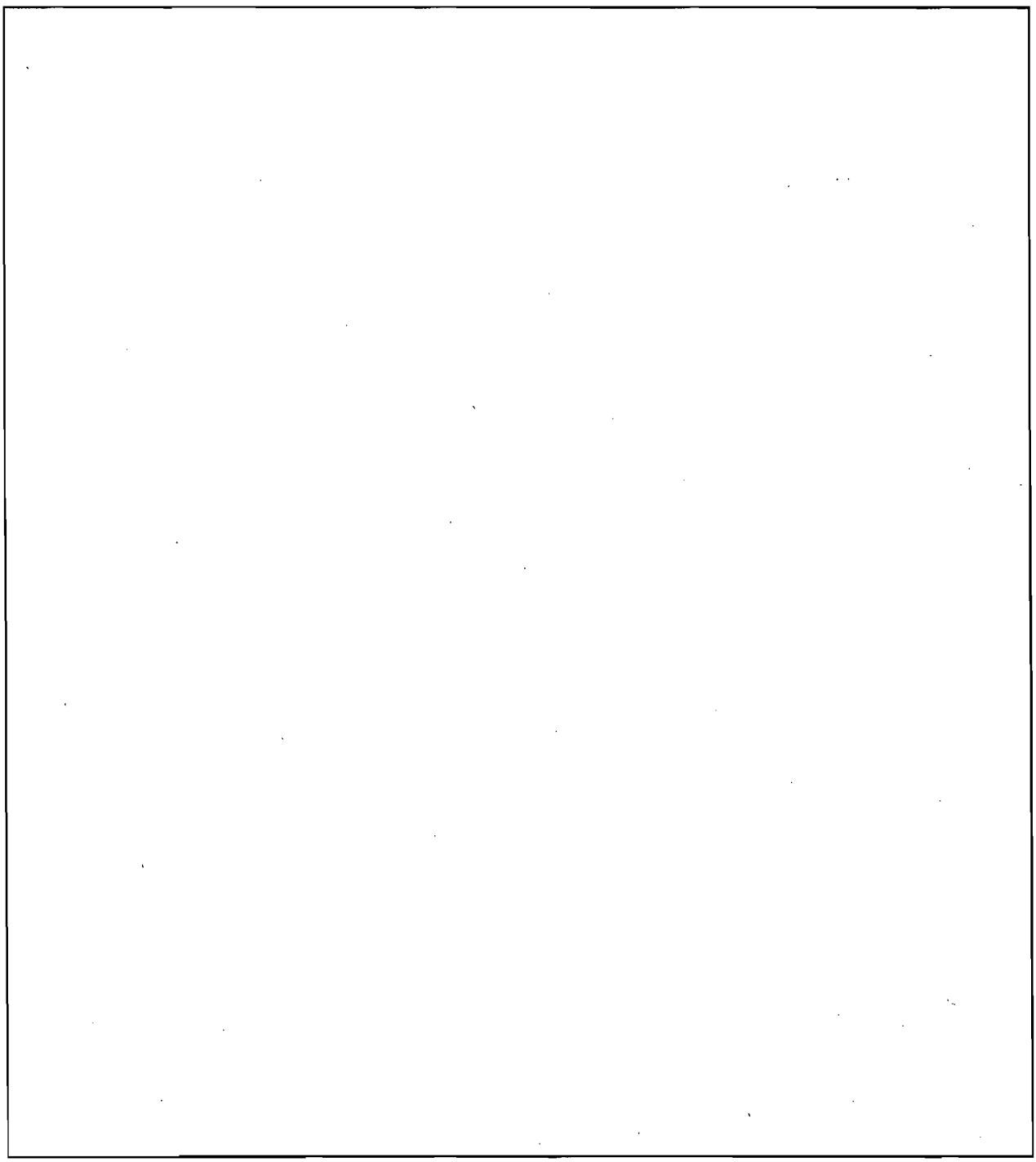
1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	3,700 acfm	
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters): Emissions related to air flow rate.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:		
	24 hours/day	7 days/week
	52 weeks/year	8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)



List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711	**Materials Handling, Sizing, Screening, Crushing, and Grinding Operations**
F.A.C. 62-297.401 (5)	**EPA Method 5**
F.A.C. 62-297.401 (9)	**EPA Method 9**
F.A.C. 62-297.401 (17)	**EPA Method 17**

E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: A6
2. Emission Point Type Code: [X] 1 [ ] 2 [ ] 3 [ ] 4
3. Descriptions of Emissions 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: [ ] D [ ] F [X] H [ ] P [ ] R [ ] V [ ] W
6. Stack Height: feet
7. Exit Diameter: feet
8. Exit Temperature: 127°F

9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	138 feet
13. Emission Point UTM Coordinates: Zone: East (km): 441.581 North (km): 3365.596	
14. Emission Point Comment (limit to 200 characters):	

F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):

   Silo Vent Filter

Mineral Products	Bulk Materials
Storage Bins	Misc/Not Classified

2. Source Classification Code (SCC): 30510299

3. SCC Units: Tons Processed

4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0

6. Estimated Annual Activity Factor: 136,145 TPY0.54

7. Maximum Percent Sulfur:	8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

10. Segment Comment (limit to 200 characters):

    Fabric filter emissions calculated by air flow rate x outlet concentration.

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**
PM10	**018**		**EL**

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM			
2. Total Percent Efficiency of Control:			> 99%
3. Potential Emissions:	0.084 lb/hour		0.37 tons/year
4. Synthetically Limited? [ ] Yes [X] No			
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3		_____ to _____	tons/year
6. Emission Factor: 0.003 gr/dscf Reference: Permit			
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5			
8. Calculation of Emissions (limit to 600 characters): See calculations for A6 at end of Ash Handling section.			
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Emissions related to air flow rate.			

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.084 lb/hour	0.37 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permitted allowable less than RULE. Emissions related to air flow rate.		

Pollutant Detail Information:

1. Pollutant Emitted: PM10			
2. Total Percent Efficiency of Control:			> 99%
3. Potential Emissions:	0.084 lb/hour		0.37 tons/year
4. Synthetically Limited? [ ] Yes [X] No			
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3		_____ to _____	tons/year
6. Emission Factor: 0.003 gr/dscf Reference: Permit			
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5			
8. Calculation of Emissions (limit to 600 characters): See calculations for A6 at end of Ash Handling section.			
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Emissions related to air flow rate.			

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER	
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units: 0.003 gr/dscf	
4. Equivalent Allowable Emissions:	0.084 lb/hour 0.37 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification test	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permitted allowable less than RULE. Emissions related to air flow rate.	

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE	
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: EPA Method 9	
5. Visible Emissions Comment (limit to 200 characters):	

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:		
PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment (limit to 200 characters):

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID:_____ [ ] Not Applicable [ ] Waiver Requested 5402-067-A1, 5402-067-A2
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: April 1994 [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [X] Attached, Document ID**CB04**___ [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [ ] Not Applicable
PSD FL-137 on file at FL DEP.

13. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable Reserved

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L 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. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] 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.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): A7: Bed Ash Receiver Baghouse, ASA-FLT-2		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [ ] Unknown 013		
3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters): First unit in bed ash train in pelletizer. Will not operate simultaneously with dry ash loadout (A18).		

Emissions Unit Control Equipment

A.

1. Description (limit to 200 characters): Fabric Filter - Low Temp.
2. Control Device or Method Code: 018

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Details

1. Initial Startup Date: 25-Jan-1994		
2. Long-term Reserve Shutdown Date: 15-May-1995		
3. Package Unit: Manufacturer:	Model Number:	
4. Generator Nameplate Rating:	MW	
5. Incinerator Information:		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	4,000 acfm	
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters): Emissions related to air flow rate.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:			
	24 hours/day		7 days/week
	52 weeks/year		8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711	**Material Handling, Sizing, Screening, Crushing, and Grinding Operations**
F.A.C. 62-297.401 (5)	**EPA Method 5**
F.A.C. 62-297.401 (9)	**EPA Method 9**
F.A.C. 62-297.401 (17)	**EPA Method 17**

E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: A7	
2. Emission Point Type Code: [X] 1 [ ] 2 [ ] 3 [ ] 4	
3. Descriptions of Emissions 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: [ ] D [ ] F [X] H [ ] P [ ] R [ ] V [ ] W	
6. Stack Height:	feet
7. Exit Diameter:	feet
8. Exit Temperature:	101°F

9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	125 feet
13. Emission Point UTM Coordinates: Zone: East (km): 441.541 North (km): 3365.695	
14. Emission Point Comment (limit to 200 characters):	

F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Segment 1 (Mode 1) None - Does not operate.	
2. Source Classification Code (SCC):	
3. SCC Units:	
4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0
6. Estimated Annual Activity Factor: 0	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters): Will not operate simultaneously with dry ash loadout (A18).	

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):

   Baghouse for Ash Silo

Mineral Products	Bulk Materials
Storage Bins	Misc/Not Classified

2. Source Classification Code (SCC): 3051020299

3. SCC Units: Tons Processed

4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0

6. Estimated Annual Activity Factor: 40,000 TPY

7. Maximum Percent Sulfur:	8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

10. Segment Comment (limit to 200 characters):

    Mode 2: Will not operate simultaneously with dry ash loadout (A18).

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**
PM10	**018**		**EL**

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM		
2. Total Percent Efficiency of Control:		>99%
3. Potential Emissions:	0.095 lb/hour	0.42 tons/year
4. Synthetically Limited? [ ] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year	
6. Emission Factor: 0.003 gr/dscf Reference: Permit		
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5		
8. Calculation of Emissions (limit to 600 characters): See calculations for A7 at end of Ash Handling section.		
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Emissions related to air flow rate.		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0 gr/dscf		
4. Equivalent Allowable Emissions:	0.0 lb/hour	0.0 tons/year
5. Method of Compliance (limit to 60 characters): Record operation times.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Mode 1 - Will not operate.		

B.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.095 lb/hour	0.42 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Mode 2: Dry Ash Loadout (A18) does not operate.		

Pollutant Detail Information:

1. Pollutant Emitted: PM10		
2. Total Percent Efficiency of Control:		>99%
3. Potential Emissions:	0.095 lb/hour	0.42 tons/year
4. Synthetically Limited? [ ] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year	
6. Emission Factor: 0.003 gr/dscf Reference: Permit		
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5		
8. Calculation of Emissions (limit to 600 characters): See calculations for A7 at end of Ash Handling section.		
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Emissions related to air flow rate.		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0 gr/dscf		
4. Equivalent Allowable Emissions:	0.0 lb/hour	0.0 tons/year
5. Method of Compliance (limit to 60 characters): Record operation times.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Mode 1 - Will not operate.		

B.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.095 lb/hour	0.42 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Mode 2: Dry Ash Loadout (A18) does not operate.		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE
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: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters):

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:		
PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment (limit to 200 characters):

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID: _____ [ ] Not Applicable [ ] Waiver Requested 5402-067-A1, 5402-067-A2
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: 3-9-94 [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [X] Attached, Document ID: **CB04** [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [ ] Not Applicable
PSD FL-137 on file at FL DEP.

13. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable RESERVED

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L 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. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] 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.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): A8: FlyAsh Receiver Baghouse, ASF-FLT-1		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [ ] Unknown **014**		
3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters):		

Emissions Unit Control Equipment

A.

1. Description (limit to 200 characters): Fabric Filter - Low Temp.
2. Control Device or Method Code: 018

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Details

1. Initial Startup Date: 25-Jan-1994		
2. Long-term Reserve Shutdown Date: 15-May-1995		
3. Package Unit: Manufacturer:	Model Number:	
4. Generator Nameplate Rating:	MW	
5. Incinerator Information: Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate: 4,625 acfm		
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters): Emissions related to air flow rate.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:			
	24 hours/day		7 days/week
	52 weeks/year		8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711	**Material Handling, Sizing, Screening, Crushing, and Grinding Operations**
F.A.C. 62-297.401 (5)	**EPA Method 5**
F.A.C. 62-297.401 (9)	**EPA Method 9**
F.A.C. 62-297.401 (17)	**EPA Method 17**

E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: A8
2. Emission Point Type Code: [X] 1 [ ] 2 [ ] 3 [ ] 4
3. Descriptions of Emissions 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: [ ] D [ ] F [X] H [ ] P [ ] R [ ] V [ ] W
6. Stack Height: feet
7. Exit Diameter: feet
8. Exit Temperature: 119°F

9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	128 feet
13. Emission Point UTM Coordinates: Zone: East (km): 441.541 North (km): 3365.695	
14. Emission Point Comment (limit to 200 characters):	

F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Not operating for Mode 1.	
2. Source Classification Code (SCC):	
3. SCC Units:	
4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0
6. Estimated Annual Activity Factor: 0	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters): Will not operate simultaneously with dry ash loadout (A18).	

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):

   Baghouse for Ash Silo

   Mineral Products — Bulk Materials
   Storage Bins — Misc/Not Classified

2. Source Classification Code (SCC): 30510299

3. SCC Units: : Tons Processed

4. Maximum Hourly Rate: 0

5. Maximum Annual Rate: 0

6. Estimated Annual Activity Factor: 140,000 TPY

7. Maximum Percent Sulfur:

8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

10. Segment Comment (limit to 200 characters):

    Will not operate simultaneously with dry ash loadout (A18).

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**
PM10	**018**		**EL**

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM			
2. Total Percent Efficiency of Control:			>99%
3. Potential Emissions:	0.11 lb/hour		0.47 tons/year
4. Synthetically Limited? [ ] Yes [X] No			
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3		_____ to _____	tons/year
6. Emission Factor: 0.003 gr/dscf Reference: Permit			
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5			
8. Calculation of Emissions (limit to 600 characters): See calculations for A8 at end of Ash Handling section.			
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):			

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.0 gr/dscf		
4. Equivalent Allowable Emissions:	0.0 lb/hour	0.0 tons/year
5. Method of Compliance (limit to 60 characters): Recording of operating times.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Segment (Mode) 1. Not allowed to operate simultaneously with dry ash loadout (A18).		

B.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.11 lb/hour	0.47 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permitted allowable less than RULE. For Segment (Mode) 2.		

Pollutant Detail Information:

1. Pollutant Emitted: PM10		
2. Total Percent Efficiency of Control:		>99%
3. Potential Emissions:	0.11 lb/hour	0.47 tons/year
4. Synthetically Limited? [ ] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3		_____ to _____ tons/year
6. Emission Factor: 0.003 gr/dscf Reference: Permit		
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5		
8. Calculation of Emissions (limit to 600 characters): See calculations for A8 at end of Ash Handling section.		
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.0 gr/dscf		
4. Equivalent Allowable Emissions:	0.0 lb/hour	0.0 tons/year
5. Method of Compliance (limit to 60 characters): Recording of operating times.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Segment (Mode) 1. Not allowed to operate simultaneously with dry ash loadout (A18).		

B.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.11 lb/hour	0.47 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permitted allowable less than RULE. For Segment (Mode) 2.		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE
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: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters):

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown
4. Baseline Emissions:			
PM		lb/hour	tons/year
SO2		lb/hour	tons/year
NO2			tons/year
5. PSD Comment (limit to 200 characters):			

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID: _____ [ ] Not Applicable [ ] Waiver Requested 5402-067-A1, 5402-067-A2
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: 3-9-94 [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [**X**] Attached, Document ID: **CB04** [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [ ] Not Applicable
5402R067.700

12. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [ ] Not Applicable
PSD FL-137 on file at FL DEP.

13. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable RESERVED

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L 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. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] 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.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): A10: Recycle Tank Baghouse, ASF-DCO -2		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [ ] Unknown 016		
3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters):		

Emissions Unit Control Equipment

A.

1. Description (limit to 200 characters): Fabric Filter - Low Temp.
2. Control Device or Method Code: 018

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Details

1. Initial Startup Date: 25-Jan-1994		
2. Long-term Reserve Shutdown Date: 15-May-1995		
3. Package Unit:		
Manufacturer:	Model Number:	
4. Generator Nameplate Rating:	MW	
5. Incinerator Information:		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	1,100 acfm	
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters):		
Emissions related to air flow rate.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:		
	24 hours/day	7 days/week
	52 weeks/year	8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711	**Material Handling, Sizing, Screening, Crushing, and Grinding Operations**
F.A.C. 62-297.401 (5)	**EPA Method 5**
F.A.C. 62-297.401 (9)	**EPA Method 9**
F.A.C. 62-297.401 (17)	**EPA Method 17**

E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: A10	
2. Emission Point Type Code: [X] 1 [ ] 2 [ ] 3 [ ] 4	
3. Descriptions of Emissions 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: [ ] D [ ] F [X] H [ ] P [ ] R [ ] V [ ] W	
6. Stack Height:	feet
7. Exit Diameter:	feet
8. Exit Temperature:	70°F

9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	120 feet
13. Emission Point UTM Coordinates: Zone: East (km): 441.541 North (km): 3365.695	
14. Emission Point Comment (limit to 200 characters):	

F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Mode 1: Will not operate.	
2. Source Classification Code (SCC):	
3. SCC Units:	
4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0
6. Estimated Annual Activity Factor: 0	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters): Segment 1 (Mode 1): Will not operate simultaneously with dry ash loadout (A18).	

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):

   Baghouse for Ash Recycle Tank.

   Mineral Products — Bulk Materials
   Storage Bins — Misc/Not Classified

2. Source Classification Code (SCC): 30510299

3. SCC Units: : Tons Processed

4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0

6. Estimated Annual Activity Factor: 40,000 TPY

7. Maximum Percent Sulfur:	8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

10. Segment Comment (limit to 200 characters):

    Segment 1 (Mode 1): Will not operate simultaneously with dry ash loadout (A18).

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**
PM10	**018**		**EL**

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM			
2. Total Percent Efficiency of Control:			>99%
3. Potential Emissions:	0.028 lb/hour		0.12 tons/year
4. Synthetically Limited? [ ] Yes [X] No			
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3		_____ to _____	tons/year
6. Emission Factor: 0.003 gr/dscf Reference: Permit			
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5			
8. Calculation of Emissions (limit to 600 characters): See calculations for A10 at end of Ash Handling section.			
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):			

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.028 lb/hour	0.12 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permit more stringent than RULE		

Pollutant Detail Information:

1. Pollutant Emitted: PM10		
2. Total Percent Efficiency of Control:		>99%
3. Potential Emissions:	0.028 lb/hour	0.12 tons/year
4. Synthetically Limited? [ ] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3		_____ to _____ tons/year
6. Emission Factor: 0.003 gr/dscf Reference: Permit		
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5		
8. Calculation of Emissions (limit to 600 characters): See calculations for A10 at end of Ash Handling section.		
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.028 lb/hour	0.12 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permit more stringent than RULE		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE
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: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters):

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:		
PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment (limit to 200 characters):

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID: _____ [ ] Not Applicable [ ] Waiver Requested 5402-067-A1, 5402-067-A2
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: 3-11-94 [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [**X**] Attached, Document ID: **CB04** [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[X] Attached, Document ID:_____ [ ] Not Applicable
5402R067.700

12. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [ ] Not Applicable
PSD FL-137 on file at FL DEP.

13. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable RESERVED

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L 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. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] 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.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): A11: Venturi Scrubber, ASF-SCB -1		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [ ] Unknown 021		
3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters):		

Emissions Unit Control Equipment

A.

1. Description (limit to 200 characters): Wet scrubber - high efficiency
2. Control Device or Method Code: 001

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Details

1. Initial Startup Date: 25-Jan-1994	
2. Long-term Reserve Shutdown Date: 15-May-1995	
3. Package Unit: Manufacturer:	Model Number:
4. Generator Nameplate Rating:	MW
5. Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Afterburner Temperature:	 °F seconds °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	14,740 acfm	
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters): Emissions related to air flow rate.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:	
24 hours/day	7 days/week
52 weeks/year	8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711	**Material Handling, Sizing, Screening, Crushing, and Grinding Operations**
F.A.C. 62-297.401 (5)	**EPA Method 5**
F.A.C. 62-297.401 (9)	**EPA Method 9**
PSD FL-137	**0.01 gr/dscf**

E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: A11	
2. Emission Point Type Code: [X] 1 [ ] 2 [ ] 3 [ ] 4	
3. Descriptions of Emissions 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: [ ] D [ ] F [ ] H [ ] P [ ] R [X] V [ ] W	
6. Stack Height:	110 feet
7. Exit Diameter:	2.13 feet
8. Exit Temperature:	95.7°F

9. Actual Volumetric Flow Rate:	15,900 acfm
10. Percent Water Vapor :	3%
11. Maximum Dry Standard Flow Rate:	14,700 dscfm
12. Nonstack Emission Point Height:	120 feet
13. Emission Point UTM Coordinates: Zone: East (km): 441.499 North (km):	3365.764
14. Emission Point Comment (limit to 200 characters):	

F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Segment 1 (Mode 1): Will not operate
2. Source Classification Code (SCC):
3. SCC Units:

4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0
6. Estimated Annual Activity Factor: 0	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	

10. Segment Comment (limit to 200 characters): Segment 1 (Mode 1): Will not operate simultaneously with dry ash loadout (A18).

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):

   Hydration:

   Mineral Products - Miscellaneous - Not Classified

2. Source Classification Code (SCC): 30599999

3. SCC Units: TPY

4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0

6. Estimated Annual Activity Factor: 30,000 TPY

7. Maximum Percent Sulfur:	8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

10. Segment Comment (limit to 200 characters):

    See comment for Segment 1.

    Emissions calculated from air flow rate and exit concentration.

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	001		EL
PM10	001		EL

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM		
2. Total Percent Efficiency of Control:		>95%
3. Potential Emissions:	1.3 lb/hour	5.5 tons/year
4. Synthetically Limited? [ ] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year		
6. Emission Factor: 0.01 gr/dscf Reference: Permit		
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5		
8. Calculation of Emissions (limit to 600 characters): See calculation for A11 at end of Ash Handling section.		
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Based on air flow rate and exit concentration.		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.0 gr/dscf		
4. Equivalent Allowable Emissions:	0.0 lb/hour	0.0 tons/year
5. Method of Compliance (limit to 60 characters): Operation Time Recording		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Not allowed to operate in Mode 1.		

B.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.01 gr/dscf		
4. Equivalent Allowable Emissions:	1.3 lb/hour	5.5 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permit less than RULE (Mode 2)		

Pollutant Detail Information:

1. Pollutant Emitted: PM10	
2. Total Percent Efficiency of Control:	>95%
3. Potential Emissions: 1.3 lb/hour	5.5 tons/year
4. Synthetically Limited? [ ] Yes [X] No	
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
6. Emission Factor: 0.01 gr/dscf Reference: Permit	
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5	
8. Calculation of Emissions (limit to 600 characters): See calculation for A11 at end of Ash Handling section.	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Based on air flow rate and exit concentration.	

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.0 gr/dscf		
4. Equivalent Allowable Emissions:	0.0 lb/hour	0.0 tons/year
5. Method of Compliance (limit to 60 characters): Operation Time Recording		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Not allowed to operate in Mode 1.		

B.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.01 gr/dscf		
4. Equivalent Allowable Emissions:	1.3 lb/hour	5.5 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permit less than RULE (Mode 2)		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE
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: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters):

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

[X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:		
PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment (limit to 200 characters):

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID: _____ [ ] Not Applicable [ ] Waiver Requested 5402-067-A1, 5402-067-A2
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: 3-10-94 [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [**X**] Attached, Document ID: **CB04** [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[X] Attached, Document ID:_____ [ ] Not Applicable
5402R067.700

12. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [ ] Not Applicable
PSD FL-137 on file at FL DEP.

13. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable RESERVED

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L 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. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] 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.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): A12: Pan Impingement Scrubber, ASF-SCB -2		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [ ] Unknown **023**		
3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters):		

Emissions Unit Control Equipment

A.

1. Description (limit to 200 characters): Impingement Scrubber
2. Control Device or Method Code: 055

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Details

1. Initial Startup Date: 25-Jan-1994		
2. Long-term Reserve Shutdown Date: 15-May-1995		
3. Package Unit: Manufacturer:	Model Number:	
4. Generator Nameplate Rating:	MW	
5. Incinerator Information:		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	14,740 acfm	
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters): Emissions related to air flow rate.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:			
	24 hours/day		7 days/week
	52 weeks/year		8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711	**Material Handling, Sizing, Screening, Crushing, and Grinding Operations**
F.A.C. 62-297.401 (5)	**EPA Method 5**
F.A.C. 62-297.401 (9)	**EPA Method 9**
F.A.C. 62-297.401 (17)	**EPA Method 17**

E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: A12	
2. Emission Point Type Code: [X] 1 [ ] 2 [ ] 3 [ ] 4	
3. Descriptions of Emissions 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: [ ] D [ ] F [ ] H [ ] P [ ] R [X] V [ ] W	
6. Stack Height:	30 feet
7. Exit Diameter:	2.23 feet
8. Exit Temperature:	90°F

9. Actual Volumetric Flow Rate:	14,740 acfm
10. Percent Water Vapor :	5%
11. Maximum Dry Standard Flow Rate:	13,500 dscfm
12. Nonstack Emission Point Height:	feet
13. Emission Point UTM Coordinates: Zone: East (km): 441.541 North (km): 3365.695	
14. Emission Point Comment (limit to 200 characters):	

F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Segment 1 (Mode 1): No Operation
2. Source Classification Code (SCC):
3. SCC Units:

4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0
6. Estimated Annual Activity Factor: 0	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	

10. Segment Comment (limit to 200 characters): Mode 1: Will not operate simultaneously with dry ash loadout (A18).

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):

   Hydration:

   Mineral Products - Miscellaneous - Not Classified

2. Source Classification Code (SCC): 30599999

3. SCC Units: TPY

4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0

6. Estimated Annual Activity Factor: 160,000 TPY

7. Maximum Percent Sulfur:	8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

10. Segment Comment (limit to 200 characters):

    Emissions calculated from air flow rate and exit concentration.

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**055**		**EL**
PM10	**055**		**EL**

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM			
2. Total Percent Efficiency of Control:			>95%
3. Potential Emissions:	1.2 lb/hour		5.1 tons/year
4. Synthetically Limited? [ ] Yes [X] No			
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3		_____ to _____	tons/year
6. Emission Factor: 0.01 gr/dscf Reference: Permit			
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5			
8. Calculation of Emissions (limit to 600 characters): See calculation for A12 at end of Ash Handling section.			
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Emissions based on air flow rate and exit concentration.			

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.01 gr/dscf		
4. Equivalent Allowable Emissions:	1.2 lb/hour	5.1 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permit less than RULE (Mode 2)		

B.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.0 gr/dscf		
4. Equivalent Allowable Emissions:	0.0 lb/hour	0.0 tons/year
5. Method of Compliance (limit to 60 characters): Operation Hours Recordkeeping		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permit: Will not operate simultaneously with dry ash loadout (A18).		

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM10			
2. Total Percent Efficiency of Control:			>95%
3. Potential Emissions:	1.2 lb/hour		5.1 tons/year
4. Synthetically Limited? [ ] Yes [X] No			
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3			_____ to _____ tons/year
6. Emission Factor: 0.01 gr/dscf Reference: Permit			
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5			
8. Calculation of Emissions (limit to 600 characters): See calculation for A12 at end of Ash Handling section.			
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Emissions based on air flow rate and exit concentration.			

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.01 gr/dscf		
4. Equivalent Allowable Emissions:	1.2 lb/hour	5.1 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permit less than RULE (Mode 2)		

B.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.0 gr/dscf		
4. Equivalent Allowable Emissions:	0.0 lb/hour	0.0 tons/year
5. Method of Compliance (limit to 60 characters): Operation Hours Recordkeeping		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permit: Will not operate simultaneously with dry ash loadout (A18).		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE	
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: EPA Method 9	
5. Visible Emissions Comment (limit to 200 characters):	

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:		
PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment (limit to 200 characters):

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID: _____ [ ] Not Applicable [ ] Waiver Requested 5402-067-A1, 5402-067-A2
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: July 1994 [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [X] Attached, Document ID: CB04 [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[X] Attached, Document ID:_____ [ ] Not Applicable
5402R067.700

12. Identification of Additional Applicable Requirements
[ ] Attached, Document ID: _____ [ ] Not Applicable
PSD-FL-137 on file at FL DEP

13. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable RESERVED

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L 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. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] 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.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): A13: Pellet Curing Silo Scrubber, ASF-SCB -3		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [ ] Unknown 022		
3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters):		

Emissions Unit Control Equipment

A.

1. Description (limit to 200 characters): Wet scrubber - high efficiency
2. Control Device or Method Code: 001

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Details

1. Initial Startup Date: 25-Jan-1994		
2. Long-term Reserve Shutdown Date: 15-May-1995		
3. Package Unit:		
Manufacturer:	Model Number:	
4. Generator Nameplate Rating:	MW	
5. Incinerator Information:		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	6,531 acfm	
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters):		
Emissions related to air flow rate.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:			
	24 hours/day		7 days/week
	52 weeks/year		8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711	**Material Handling, Sizing, Screening, Crushing, and Grinding Operations**
F.A.C. 62-297.401 (5)	**EPA Method 5**
F.A.C. 62-297.401 (9)	**EPA Method 9**
F.A.C. 62-297.401 (17)	**EPA Method 17**

E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: A13
2. Emission Point Type Code: [X] 1 [ ] 2 [ ] 3 [ ] 4
3. Descriptions of Emissions 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: [ ] D [ ] F [X] H [ ] P [ ] R [ ] V [ ] W
6. Stack Height: feet
7. Exit Diameter: feet
8. Exit Temperature: 98°F

9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	85 feet
13. Emission Point UTM Coordinates: Zone: East (km): 441.499 North (km): 3365.764	
14. Emission Point Comment (limit to 200 characters):	

F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Segment 1 (Mode 1): Will not operate	
2. Source Classification Code (SCC):	
3. SCC Units:	
4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0
6. Estimated Annual Activity Factor: 0	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters): Permit: Will not operate simultaneously with dry ash loadout (A18).	

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):

   Mode 2:

   Mineral Products — Bulk Materials
   Storage Bins — Misc/Not Classified

2. Source Classification Code (SCC): 30510299

3. SCC Units: TPY

4. Maximum Hourly Rate: 0

5. Maximum Annual Rate: 0

6. Estimated Annual Activity Factor: 160,000 TPY

7. Maximum Percent Sulfur:

8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

10. Segment Comment (limit to 200 characters):

    Emissions calculated from air flow rate and exit concentration.

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**001**		**EL**
PM10	**001**		**EL**

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM			
2. Total Percent Efficiency of Control:			>95%
3. Potential Emissions:		0.50 lb/hour	2.2 tons/year
4. Synthetically Limited? [ ] Yes [X] No			
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3		_____ to _____	tons/year
6. Emission Factor: 0.01 gr/dscf Reference: Permit			
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5			
8. Calculation of Emissions (limit to 600 characters): See calculations for A13 at end of Ash Handling section.			
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Emissions calculated from air flow rate and exit concentration.			

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.0 gr/dscf		
4. Equivalent Allowable Emissions:	0.0 lb/hour	0.0 tons/year
5. Method of Compliance (limit to 60 characters): Operations hours recordkeeping.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Mode 1: Will not operate.		

B.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.01 gr/dscf		
4. Equivalent Allowable Emissions:	0.50 lb/hour	2.2 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Mode 2: A18 will not operate.		

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM10			
2. Total Percent Efficiency of Control:			>95%
3. Potential Emissions:	0.50 lb/hour		2.2 tons/year
4. Synthetically Limited? [ ] Yes [X] No			
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3		_____ to _____	tons/year
6. Emission Factor: 0.01 gr/dscf Reference: Permit			
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5			
8. Calculation of Emissions (limit to 600 characters): See calculations for A13 at end of Ash Handling section.			
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Emissions calculated from air flow rate and exit concentration.			

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.0 gr/dscf		
4. Equivalent Allowable Emissions:	0.0 lb/hour	0.0 tons/year
5. Method of Compliance (limit to 60 characters): Operations hours recordkeeping.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Mode 1: Will not operate.		

B.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.01 gr/dscf		
4. Equivalent Allowable Emissions:	0.50 lb/hour	2.2 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Mode 2: A18 will not operate.		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE
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: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters):

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:		
PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment (limit to 200 characters):

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID: _____ [ ] Not Applicable [ ] Waiver Requested 5402-067-A1, 5402-067-A2
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: April 1994 [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [X] Attached, Document ID: CB-04 [X] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Identification of Additional Applicable Requirements
[ ] Attached, Document ID: _____ [ ] Not Applicable
PSD-FL-137 on file at FL DEP

13. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable RESERVED

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L 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. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] 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.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): A14: Pellet Curing Silos Discharge Belt Baghouse, ASF-DCO4		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [X] Unknown		
3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters):		

Emissions Unit Control Equipment

A.

1. Description (limit to 200 characters): Fabric Filter -Low Temp.
2. Control Device or Method Code: 018

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Details

1. Initial Startup Date: 25-Jan-1994		
2. Long-term Reserve Shutdown Date: 15-May-1995		
3. Package Unit: Manufacturer:	Model Number:	
4. Generator Nameplate Rating:	MW	
5. Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Afterburner Temperature:		°F seconds °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate: 2,100 acfm		
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters): Emissions related to air flow rate.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:		
	24 hours/day	7 days/week
	52 weeks/year	8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711	**Material Handling, Sizing, Screening, Crushing, and Grinding Operations**
F.A.C. 62-297.401 (5)	**EPA Method 5**
F.A.C. 62-297.401 (9)	**EPA Method 9**
F.A.C. 62-297.401 (17)	**EPA Method 17**

E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: A14	
2. Emission Point Type Code: [X] 1 [ ] 2 [ ] 3 [ ] 4	
3. Descriptions of Emissions 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: [ ] D [ ] F [X] H [ ] P [ ] R [ ] V [ ] W	
6. Stack Height:	feet
7. Exit Diameter:	feet
8. Exit Temperature:	99 °F

9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	15 feet
13. Emission Point UTM Coordinates: Zone: East (km): 441.541 North (km): 3365.695	
14. Emission Point Comment (limit to 200 characters):	

F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Segment 1 (Mode 1): Will not operate	
2. Source Classification Code (SCC):	
3. SCC Units:	
4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0
6. Estimated Annual Activity Factor: 0	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters): Permit: Mode 1 will not operate simultaneously with dry ash loadout (A18).	

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):

   Mode 2:

   Mineral Products - Conveyor
   Transfer Point - Unclassified

2. Source Classification Code (SCC): 30599999

3. SCC Units: TPY

4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0
6. Estimated Annual Activity Factor: 160,000 TPY	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

10. Segment Comment (limit to 200 characters):

    Emissions related to air flow rate.

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**
PM10	**018**		**EL**

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM		
2. Total Percent Efficiency of Control:		>99%
3. Potential Emissions:	0.048 lb/hour	0.21 tons/year
4. Synthetically Limited? [ ] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year		
6. Emission Factor: 0.003 gr/dscf Reference: Permit		
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5		
8. Calculation of Emissions (limit to 600 characters): See calculations for A14 at end of Ash Handling section.		
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Based on air flow rate and exit concentration.		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: Other		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.0 gr/dscf		
4. Equivalent Allowable Emissions:	0.0 lb/hour	0.0 tons/year
5. Method of Compliance (limit to 60 characters): Recording of operation times.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Mode 1: Will not operate.		

B.

1. Basis for Allowable Emissions Code: Other		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.048 lb/hour	0.21 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permit allowable less than Rule.		

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM10		
2. Total Percent Efficiency of Control:		>99%
3. Potential Emissions:	0.048 lb/hour	0.21 tons/year
4. Synthetically Limited? [ ] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year		
6. Emission Factor: 0.003 gr/dscf Reference: Permit		
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5		
8. Calculation of Emissions (limit to 600 characters): See calculations for A14 at end of Ash Handling section.		
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Based on air flow rate and exit concentration.		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: Other		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.0 gr/dscf		
4. Equivalent Allowable Emissions:	0.0 lb/hour	0.0 tons/year
5. Method of Compliance (limit to 60 characters): Recording of operation times.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Mode 1: Will not operate.		

B.

1. Basis for Allowable Emissions Code: Other		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.048 lb/hour	0.21 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permit allowable less than Rule.		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE
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: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters):

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:		
PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment (limit to 200 characters):

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID: _____ [ ] Not Applicable [ ] Waiver Requested 5402-067-A1, 5402-067-A2
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: July 29, 1994 [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [X] Attached, Document ID: CB04 [X] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[X] Attached, Document ID: [ ] Not Applicable
5402R067.700

12. Identification of Additional Applicable Requirements
[ ] Attached, Document ID: _____ [ ] Not Applicable
PSD-FL-137 on file at FL DEP

13. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable RESERVED

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L 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. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] 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.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): A15: Loadout Rail Hopper Baghouse, ASF-DCO-3		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [ ] Unknown 018 ~ 29		
3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters):		

Emissions Unit Control Equipment

A.

1. Description (limit to 200 characters): Fabric Filter -Low Temp.
2. Control Device or Method Code: 018

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Details

1. Initial Startup Date: 25-Jan-1994		
2. Long-term Reserve Shutdown Date: 15-May-1995		
3. Package Unit:		
Manufacturer:	Model Number:	
4. Generator Nameplate Rating:	MW	
5. Incinerator Information:		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	4,500 acfm	
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters):		
Emissions related to air flow rate.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:			
	24 hours/day		7 days/week
	52 weeks/year		8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711	**Material Handling, Sizing, Screening, Crushing, and Grinding Operations**
F.A.C. 62-297.401 (5)	**EPA Method 5**
F.A.C. 62-297.401 (9)	**EPA Method 9**
F.A.C. 62-297.401 (17)	**EPA Method 17**

E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: A15
2. Emission Point Type Code: [X] 1 [ ] 2 [ ] 3 [ ] 4
3. Descriptions of Emissions 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: [ ] D [ ] F [X] H [ ] P [ ] R [ ] V [ ] W
6. Stack Height: feet
7. Exit Diameter: feet
8. Exit Temperature: 85°F

9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	40 feet
13. Emission Point UTM Coordinates: Zone: East (km): 441.576 North (km): 3365.758	
14. Emission Point Comment (limit to 200 characters):	

F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Segment 1 (Mode 1): Will not operate	
2. Source Classification Code (SCC):	
3. SCC Units:	
4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0
6. Estimated Annual Activity Factor: 0	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters): Mode 1: Will not operate.	

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):

   Mode 2:

   Mineral Products - Conveyor
   Transfer Point - Unclassified

2. Source Classification Code (SCC): 30599999

3. SCC Units: TPY

4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0
6. Estimated Annual Activity Factor:	120,000 TPY
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	

10. Segment Comment (limit to 200 characters):

    Mode 2: Dry ash loadout (A18) will not operate.

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**
PM10	**018**		**EL**

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM

2. Total Percent Efficiency of Control: >99%

3. Potential Emissions: 0.11 lb/hour 0.48 tons/year

4. Synthetically Limited?
   [ ] Yes [X] No

5. Range of Estimated Fugitive/Other Emissions:
   [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year

6. Emission Factor: 0.003 gr/dscf
   Reference: Permit

7. Emissions Method Code:
   [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5

8. Calculation of Emissions (limit to 600 characters):

   See calculations for A15 at end of Ash Handling section.

9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):

   Based on air flow rate and exit concentration.

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.0 gr/dscf		
4. Equivalent Allowable Emissions:	0.0 lb/hour	0.0 tons/year
5. Method of Compliance (limit to 60 characters): Operations times recordkeeping.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Mode 1: Will not operate.		

B.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.11 lb/hour	0.48 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permit allowable is less than RULE. Mode 2: Based on air flow rate and exit concentration.		

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM10		
2. Total Percent Efficiency of Control:		>99%
3. Potential Emissions:	0.11 lb/hour	0.48 tons/year
4. Synthetically Limited? [ ] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year		
6. Emission Factor: 0.003 gr/dscf Reference: Permit		
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5		
8. Calculation of Emissions (limit to 600 characters): See calculations for A15 at end of Ash Handling section.		
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Based on air flow rate and exit concentration.		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.0 gr/dscf		
4. Equivalent Allowable Emissions:	0.0 lb/hour	0.0 tons/year
5. Method of Compliance (limit to 60 characters): Operations times recordkeeping.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Mode 1: Will not operate.		

B.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.11 lb/hour	0.48 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permit allowable is less than RULE. Mode 2: Based on air flow rate and exit concentration.		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE
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: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters):

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:		
PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment (limit to 200 characters):

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID: _____ [ ] Not Applicable [ ] Waiver Requested 5402-067-A1, 5402-067-A2
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: March 9, 1994 [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [X] Attached, Document ID: CB04 [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[X] Attached, Document ID:_____ [ ] Not Applicable
5402R067.700

12. Identification of Additional Applicable Requirements
[ ] Attached, Document ID: _____ [ ] Not Applicable
PSD-FL-137 on file at FL DEP

13. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable RESERVED

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L 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. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] 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.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): A16: Pellet Recycle Conveyor Baghouse, ASF-DCO-5		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [ ] Unknown 019		
3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters):		

Emissions Unit Control Equipment

A.

1. Description (limit to 200 characters): Fabric Filter -Low Temp.
2. Control Device or Method Code: 018

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Details

1. Initial Startup Date: 25-Jan-1994		
2. Long-term Reserve Shutdown Date: 15-May-1995		
3. Package Unit: Manufacturer:	Model Number:	
4. Generator Nameplate Rating:	MW	
5. Incinerator Information:		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	1,562 acfm	
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters):		
Emissions related to air flow rate.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:		
	24 hours/day	7 days/week
	52 weeks/year	8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711	**Material Handling, Sizing, Screening, Crushing, and Grinding Operations**
F.A.C. 62-297.401 (5)	**EPA Method 5**
F.A.C. 62-297.401 (9)	**EPA Method 9**
F.A.C. 62-297.401 (17)	**EPA Method 17**

E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: A16
2. Emission Point Type Code: [X] 1 [ ] 2 [ ] 3 [ ] 4
3. Descriptions of Emissions 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: [ ] D [ ] F [X] H [ ] P [ ] R [ ] V [ ] W
6. Stack Height: feet
7. Exit Diameter: feet
8. Exit Temperature: °F

9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	15 feet
13. Emission Point UTM Coordinates: Zone: East (km): 441.541 North (km): 3365.695	
14. Emission Point Comment (limit to 200 characters):	

F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Segment 1 (Mode 1): Will not operate.	
2. Source Classification Code (SCC):	
3. SCC Units:	
4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0
6. Estimated Annual Activity Factor: 0 TPY	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters): Mode 1: Will not operate.	

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Mode 2: Mineral Products - Conveyor Transfer Point - Unclassified	
2. Source Classification Code (SCC): 30599999	
3. SCC Units: TPY	
4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0
6. Estimated Annual Activity Factor: 120,000 TPY	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters): Mode 2: (A18) Dry ash loadout will not operate.	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**
PM10	**018**		**EL**

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM		
2. Total Percent Efficiency of Control:		>99%
3. Potential Emissions:	0.037 lb/hour	0.16 tons/year
4. Synthetically Limited? [ ] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year		
6. Emission Factor: 0.003 gr/dscf Reference: Permit		
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5		
8. Calculation of Emissions (limit to 600 characters): See calculations for A16 at end of Ash Handling section.		
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Emissions based on air flow rate and exit concentration.		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.0 gr/dscf		
4. Equivalent Allowable Emissions:	0.0 lb/hour	0.0 tons/year
5. Method of Compliance (limit to 60 characters): Operations times recordkeeping.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Mode 1: Will not operate.		

B.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.037 lb/hour	0.16 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permit allowable is less than RULE. Mode 2: Based on air flow rate and exit concentration.		

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM10		
2. Total Percent Efficiency of Control:		>99%
3. Potential Emissions:	0.037 lb/hour	0.16 tons/year
4. Synthetically Limited? [ ] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year		
6. Emission Factor: 0.003 gr/dscf Reference: Permit		
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5		
8. Calculation of Emissions (limit to 600 characters): See calculations for A16 at end of Ash Handling section.		
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Emissions based on air flow rate and exit concentration.		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.0 gr/dscf		
4. Equivalent Allowable Emissions:	0.0 lb/hour	0.0 tons/year
5. Method of Compliance (limit to 60 characters): Operations times recordkeeping.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Mode 1: Will not operate.		

B.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.037 lb/hour	0.16 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permit allowable is less than RULE. Mode 2: Based on air flow rate and exit concentration.		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE	
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: EPA Method 9	
5. Visible Emissions Comment (limit to 200 characters):	

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown
4. Baseline Emissions:			
PM		lb/hour	tons/year
SO2		lb/hour	tons/year
NO2			tons/year
5. PSD Comment (limit to 200 characters):			

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID: _____ [ ] Not Applicable [ ] Waiver Requested 5402-067-A1, 5402-067-A2
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: June, 1994 [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [X] Attached, Document ID: CB04 [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[X] Attached, Document ID:_____ [ ] Not Applicable
5402R067.700

12. Identification of Additional Applicable Requirements
[ ] Attached, Document ID: [ ] Not Applicable
PSD-FL-137 on file at FL DEP

13. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable RESERVED

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L 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. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] 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.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): A17: Pellet Screen Hopper/Feed Hopper Baghouse, ASF-DCO-1		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [ ] Unknown 015		
3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters):		

Emissions Unit Control Equipment

A.

1. Description (limit to 200 characters): Fabric Filter -Low Temp.
2. Control Device or Method Code: 018

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Details

1. Initial Startup Date: 25-Jan-1994		
2. Long-term Reserve Shutdown Date: 15-May-1995		
3. Package Unit:		
Manufacturer:	Model Number:	
4. Generator Nameplate Rating:	MW	
5. Incinerator Information:		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	15,000 acfm	
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters):		
Emissions related to air flow rate.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:		
	24 hours/day	7 days/week
	52 weeks/year	8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711	**Material Handling, Sizing, Screening, Crushing, and Grinding Operations**
F.A.C. 62-297.401 (5)	**EPA Method 5**
F.A.C. 62-297.401 (9)	**EPA Method 9**
F.A.C. 62-297.401 (17)	**EPA Method 17**

E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: A17	
2. Emission Point Type Code: [X] 1 [ ] 2 [ ] 3 [ ] 4	
3. Descriptions of Emissions 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: [ ] D [ ] F [X] H [ ] P [ ] R [ ] V [ ] W	
6. Stack Height:	feet
7. Exit Diameter:	feet
8. Exit Temperature:	104°F

9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	25 feet
13. Emission Point UTM Coordinates: Zone: East (km): 441.521 North (km): 3365.725	
14. Emission Point Comment (limit to 200 characters):	

F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Segment 1 (Mode 1): Will not operate.	
2. Source Classification Code (SCC):	
3. SCC Units:	
4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0
6. Estimated Annual Activity Factor: 0 TPY	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters): Mode 1: Will not operate.	

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):

   Mode 2:

   Mineral Products - Conveyor
   Transfer Point - Unclassified

2. Source Classification Code (SCC): 30599999

3. SCC Units: TPY

4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0
6. Estimated Annual Activity Factor:	160,000 TPY
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	

10. Segment Comment (limit to 200 characters):

    Mode 2: (A18) Dry ash loadout will not operate.

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**
PM10	**018**		**EL**

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM			
2. Total Percent Efficiency of Control:			>99%
3. Potential Emissions:	0.34 lb/hour		1.5 tons/year
4. Synthetically Limited? [ ] Yes [X] No			
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3		_____ to _____	tons/year
6. Emission Factor: 0.003 gr/dscf Reference: Permit			
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5			
8. Calculation of Emissions (limit to 600 characters): See calculations for A17 at end of Ash Handling section.			
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Based on air flow rate and exit concentration.			

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.0 gr/dscf		
4. Equivalent Allowable Emissions:	0.0 lb/hour	0.0 tons/year
5. Method of Compliance (limit to 60 characters): Operations times recordkeeping.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Mode 1: Will not operate.		

B.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.34 lb/hour	1.5 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Mode 2: Based on air flow rate and exit concentration.		

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM10			
2. Total Percent Efficiency of Control:			>99%
3. Potential Emissions:	0.34 lb/hour		1.5 tons/year
4. Synthetically Limited? [ ] Yes [X] No			
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3		_____ to _____	tons/year
6. Emission Factor: 0.003 gr/dscf Reference: Permit			
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5			
8. Calculation of Emissions (limit to 600 characters): See calculations for A17 at end of Ash Handling section.			
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Based on air flow rate and exit concentration.			

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.0 gr/dscf		
4. Equivalent Allowable Emissions:	0.0 lb/hour	0.0 tons/year
5. Method of Compliance (limit to 60 characters): Operations times recordkeeping.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Mode 1: Will not operate.		

B.

1. Basis for Allowable Emissions Code: OTHER		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.34 lb/hour	1.5 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Mode 2: Based on air flow rate and exit concentration.		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE
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: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters):

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:		
PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment (limit to 200 characters):

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID: _____ [ ] Not Applicable [ ] Waiver Requested 5402-067-A1, 5402-067-A2
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: July, 1994 [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [X] Attached, Document ID: CB04 [X] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[x] Attached, Document ID:_____ [ ] Not Applicable
5402R067.700

12. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [ ] Not Applicable
PSD-FL-137 on file at FL DEP

13. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable RESERVED

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L 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. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] 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.

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

A18: Dry Ash Loadout Baghouse

ajorEmissions Unit Identification Number: [ ] No Corresponding ID [ ] Unknown

Group SIC Code: 49

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

Emissions Unit Control Equipment

A.

1. Description (limit to 200 characters): Fabric Filter - low temp.
2. Control Device or Method Code: 018

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Details

1. Initial Startup Date: 21-Dec-1995		
2. Long-term Reserve Shutdown Date:		
3. Package Unit: Manufacturer:	Model Number:	
4. Generator Nameplate Rating:	MW	
5. Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Afterburner Temperature:		°F seconds °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate: 20,000 acfm		
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters): Emissions related to air flow rate.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:		
	24 hours/day	7 days/week
	52 weeks/year	8760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711	**Materials Handling, Sizing, Screening, Crushing, and Grinding Operations**
F.A.C. 62-297.401 (5)	**EPA Method 5**
F.A.C. 62-297.401 (9)	**EPA Method 9**
F.A.C. 62-297.401 (17)	**EPA Method 17**

E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: A18
2. Emission Point Type Code: [X] 1 [ ] 2 [ ] 3 [ ] 4
3. Descriptions of Emissions 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: [ ] D [ ] F [X] H [ ] P [ ] R [ ] V [ ] W
6. Stack Height: feet
7. Exit Diameter: feet
8. Exit Temperature: 120 °F

9. Actual Volumetric Flow Rate:	acfm
10. Percent 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):	

F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Segment 1 (Mode 1): Loading of ash into trucks	
2. Source Classification Code (SCC): 30599999	
3. SCC Units: TPY	
4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0
6. Estimated Annual Activity Factor: 200,000 TPY	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters): Permit: Will not operate pelletizer (A7, A8, A10, A11, A12, A13, A14, A15, A16, A17, AF11) simultaneously with dry ash loadout (A18).	

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Mode 2: Will not operate
2. Source Classification Code (SCC):
3. SCC Units: TPY
4. Maximum Hourly Rate: 0 | 5. Maximum Annual Rate: 0
6. Estimated Annual Activity Factor: 0
7. Maximum Percent Sulfur: | 8. Maximum Percent Ash:
9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): Mode 2: Will not operate simultaneously with pelletizer (A7, A8, A10, A11, A12, A13, A14, A15, A16, A17, AF11).

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**
PM10	**018**		**EL**

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM

2. Total Percent Efficiency of Control: > 99 %

3. Potential Emissions: 0.46 lb/hour 2.0 tons/year

4. Synthetically Limited?
   [ ] Yes [X] No

5. Range of Estimated Fugitive/Other Emissions:
   [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year

6. Emission Factor: 0.003 gr/dscf
   Reference: permit

7. Emissions Method Code:
   [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5

8. Calculation of Emissions (limit to 600 characters):

See calculations for A18 at end of Ash Handling section.

9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):

Based on air flow rate and exit concentration.

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.003 gr/dscf
4. Equivalent Allowable Emissions: 0.46 lb/hour 2.0 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification test
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Model: Will not operate pelletizer.

B.

1. Basis for Allowable Emissions Code: OTHER
2. Future Effective Date of Allowable Emissions: 0
3. Requested Allowable Emissions and Units: 0 gr/dscf
4. Equivalent Allowable Emissions: 0 lb/hr 0 tons/year
5. Method of Compliance (limit to 60 characters): Recording of operating times
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Mode 2: Will not operate A18.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM10

2. Total Percent Efficiency of Control: > 99 %

3. Potential Emissions: 0.46 lb/hour 2.0 tons/year

4. Synthetically Limited?
   [ ] Yes [X] No

5. Range of Estimated Fugitive/Other Emissions:
   [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year

6. Emission Factor: 0.003 gr/dscf
   Reference: permit

7. Emissions Method Code:
   [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5

8. Calculation of Emissions (limit to 600 characters):

See calculations for A18 at end of Ash Handling section.

9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):

Based on air flow rate and exit concentration.

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: OTHER
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.003 gr/dscf
4. Equivalent Allowable Emissions: 0.46 lb/hour 2.0 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification test
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Model: Will not operate pelletizer.

B.

1. Basis for Allowable Emissions Code: OTHER
2. Future Effective Date of Allowable Emissions: 0
3. Requested Allowable Emissions and Units: 0 gr/dscf
4. Equivalent Allowable Emissions: 0 lb/hr 0 tons/year
5. Method of Compliance (limit to 60 characters): Recording of operating times
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Mode 2: Will not operate A18.

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE
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: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters):

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:		
PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment (limit to 200 characters):

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID:_____ [ ] Not Applicable [ ] Waiver Requested 5402-067-A1
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: Scheduled April 23, 1996 [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [X] Attached, Document ID: CB04 [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[X] Attached, Document ID:_____ [ ] Not Applicable
5402R067.700

12. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [ ] Not Applicable
PSD-FL-137 on file at FL DEP

13. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable Reserved

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L 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. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[ ] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] 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.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): AF11: Recycle Surge Hopper Baghouse, ASF-FLT-3		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [ ] Unknown **017**		
3. Emissions Unit Status Code: A	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters): **Vents inside enclosure.**		

Emissions Unit Control Equipment

A.

1. Description (limit to 200 characters): Fabric Filter -Low Temp.
2. Control Device or Method Code: 018

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Details

1. Initial Startup Date: 25-Jan-1994		
2. Long-term Reserve Shutdown Date: 15-May-1995		
3. Package Unit: Manufacturer:	Model Number:	
4. Generator Nameplate Rating:	MW	
5. Incinerator Information:		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate: 754 acfm		
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters): Emissions related to air flow rate.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:			
	24 hours/day		7 days/week
	52 weeks/year		8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.711	**Material Handling, Sizing, Screening, Crushing, and Grinding Operations**
F.A.C. 62-297.401 (5)	**EPA Method 5**
F.A.C. 62-297.401 (9)	**EPA Method 9**
F.A.C. 62-297.401 (17)	**EPA Method 17**

E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: AF11
2. Emission Point Type Code: [ ] 1 [ ] 2 [ ] 3 [X] 4
3. Descriptions of Emissions 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: [ ] D [X] F [ ] H [ ] P [ ] R [ ] V [ ] W
6. Stack Height: feet
7. Exit Diameter: feet
8. Exit Temperature: 89°F

9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	115 feet
13. Emission Point UTM Coordinates: Zone: East (km): 441.541 North (km): 3365.695	
14. Emission Point Comment (limit to 200 characters):	

F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):

   Segment 1 (Mode 1): Will not operate.

2. Source Classification Code (SCC):

3. SCC Units: TPY

4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0

6. Estimated Annual Activity Factor: 0 TPY

7. Maximum Percent Sulfur:	8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

10. Segment Comment (limit to 200 characters):

    Mode 1: Will not operate simultaneously with dry ash loadout (A18).

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):

   Mode 2: Pellet Recycle Surge Hopper Baghouse

   Mineral Products - Bulk Silo Storage - Unclassified

2. Source Classification Code (SCC): 30599999

3. SCC Units: TPY

4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0

6. Estimated Annual Activity Factor: 40,000 TPY

7. Maximum Percent Sulfur:	8. Maximum Percent Ash:

9. Million Btu per SCC Unit:

10. Segment Comment (limit to 200 characters):

    Mode 2: Dry ash loadout will not operate (A18).

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**EL**
PM10	**018**		**EL**

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM

2. Total Percent Efficiency of Control: >99%

3. Potential Emissions: 0.0054 lb/hour 0.0079 tons/year

4. Synthetically Limited?
   [ ] Yes [X] No

5. Range of Estimated Fugitive/Other Emissions:
   [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year

6. Emission Factor: 0.003 gr/dscf
   Reference: Permit

7. Emissions Method Code:
   [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5

8. Calculation of Emissions (limit to 600 characters):

   See calculations for AF11 at end of Ash Handling section.

9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):

   Emissions related to air flow rate.

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: Other		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.028 lb/hour	0.12 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permit more stringent than Rule.		

B.

1. Basis for Allowable Emissions Code: Other		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.0054 lb/hour	0.0079 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permit more stringent than Rule.		

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information:

1. Pollutant Emitted: PM10		
2. Total Percent Efficiency of Control:		>99%
3. Potential Emissions:	0.0054 lb/hour	0.0079 tons/year
4. Synthetically Limited? [ ] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year		
6. Emission Factor: 0.003 gr/dscf Reference: Permit		
7. Emissions Method Code: [X] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5		
8. Calculation of Emissions (limit to 600 characters): See calculations for AF11 at end of Ash Handling section.		
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Emissions related to air flow rate.		

Allowable Emissions (Pollutant identified on front of page)

A.

1. Basis for Allowable Emissions Code: Other		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.028 lb/hour	0.12 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permit more stringent than Rule.		

B.

1. Basis for Allowable Emissions Code: Other		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: 0.003 gr/dscf		
4. Equivalent Allowable Emissions:	0.0054 lb/hour	0.0079 tons/year
5. Method of Compliance (limit to 60 characters): Initial Certification Test		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Permit more stringent than Rule.		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE
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: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters):

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:

PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:

PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment (limit to 200 characters):

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID: _____ [ ] Not Applicable [ ] Waiver Requested 5402-067-A1, 5402-067-A2
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: March 10, 1994 [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [X] Attached, Document ID: CB04 [ ] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[X] Attached, Document ID:_____ [ ] Not Applicable
5402R067.700

12. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [ ] Not Applicable
PSD-FL-137 on file at FL DEP

13. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable RESERVED

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

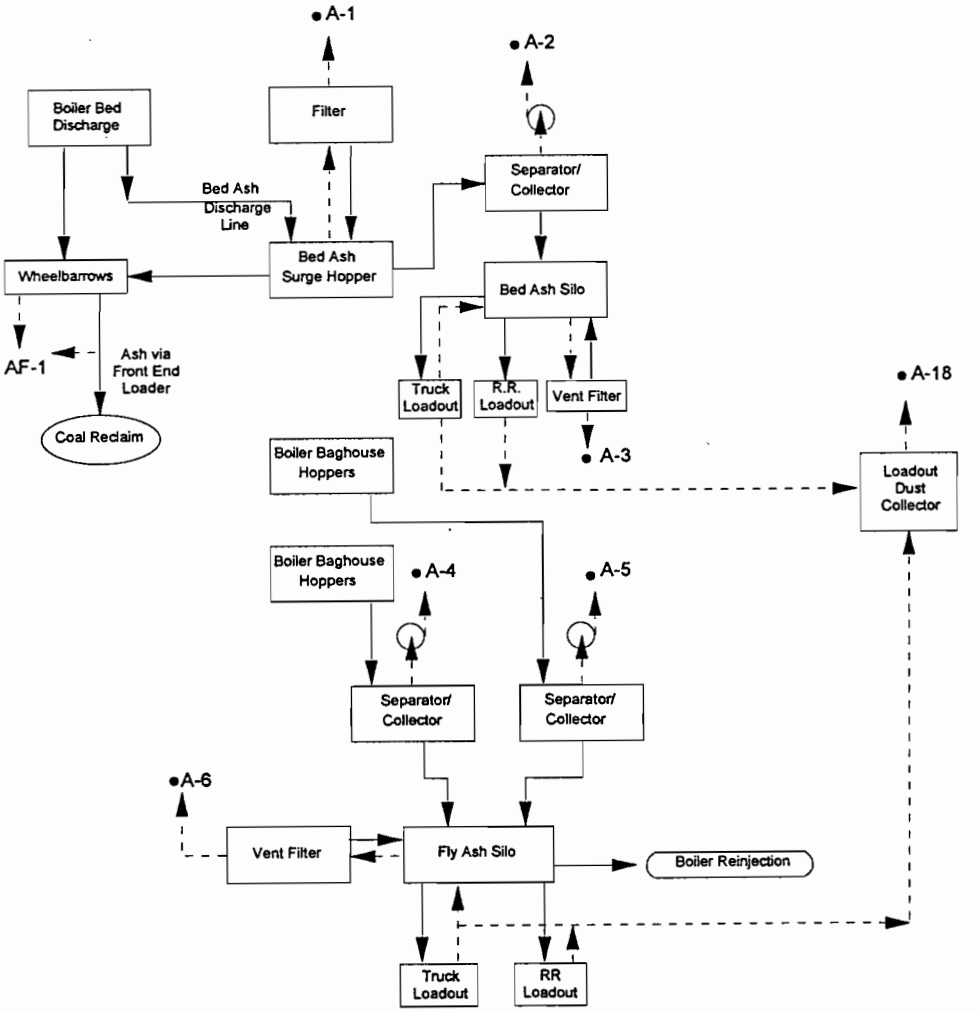
[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

Process Flow Diagram of Ash Handling System

Normal Operating Scenario, Dry Ash Loadout

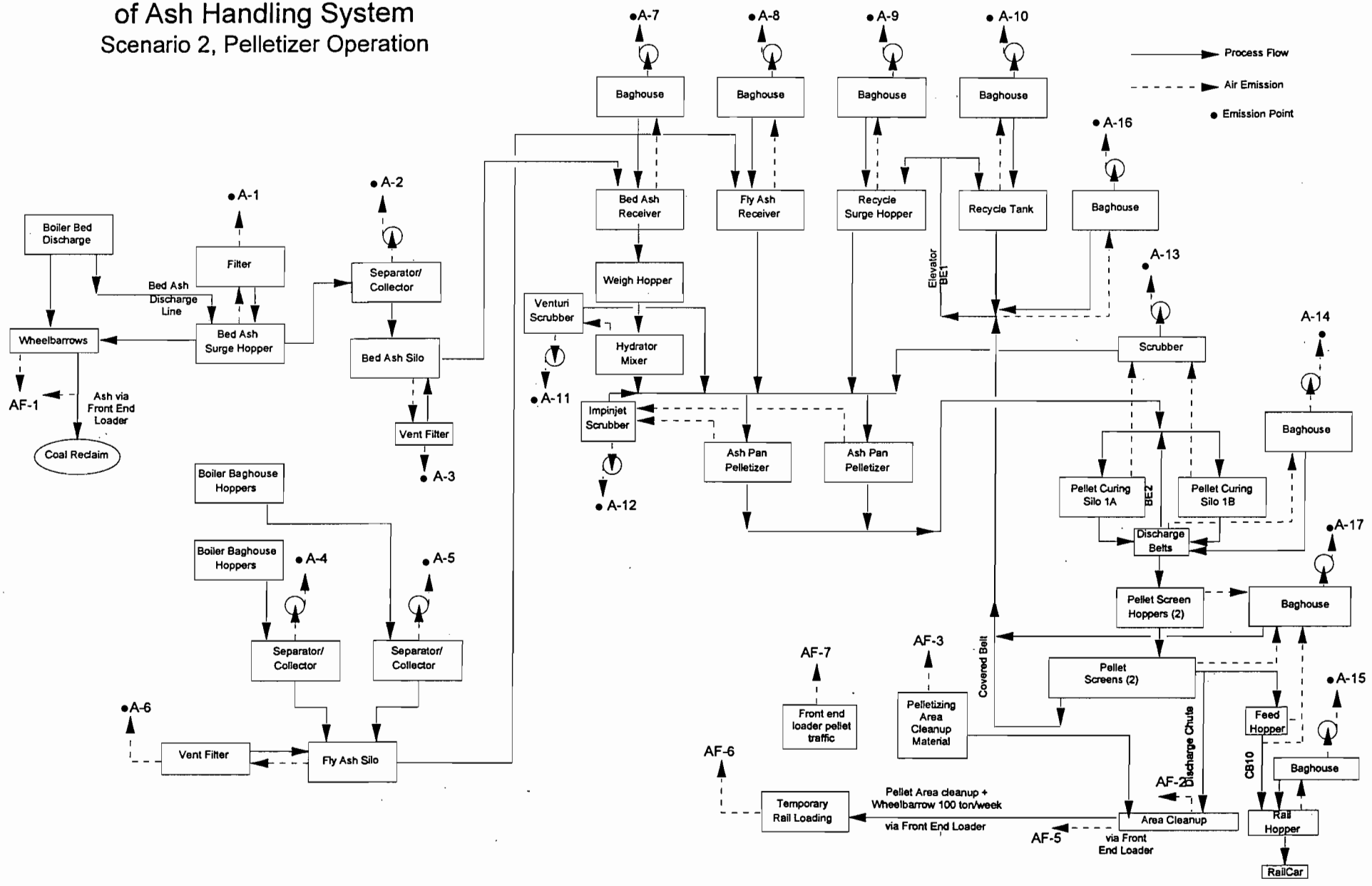


DRAWING NO. 5402-067-A1

05/02/1996

Process Flow Diagram of Ash Handling System

Scenario 2, Pelletizer Operation



DRAWING NO. 5402-067-A2

05/02/1996

Scenario 1 Cedar Bay Ash Handling Fugitive Particulates

Process Throughput Assumptions for Calculating Fugitive Particulate Emissions from Ash Handling System, Estimated Potentials for Scenario 1

$tpy := \frac{ton}{yr}$ $tph := \frac{ton}{hr}$ $week := 5 \cdot day$ $month := \frac{yr}{12}$ Assume front end loader can deliver 60 tph maximum.

AF1 Transfer from overfill chutes from boiler beds to wheelbarrows

$wheelbarrow := 0.7 \cdot 40 \cdot gal \cdot 70 \cdot \frac{lb}{ft^3}$ $wheelbarrow = 262 \cdot lb$ Per K. Grant memo 4/3/96

$\frac{11 \cdot wheelbarrow}{8 \cdot hr} = 0.1801 \cdot tph$ $\frac{11 \cdot wheelbarrow}{8 \cdot hr} \cdot 8760 \cdot \frac{hr}{yr} \cdot 93 \cdot \% = 1468 \cdot tpy$ Permit to operate at 93% of capacity

Batch or Continuous Drop Emission factors

Particulate, AP-42 4th ed., Section 11.2.3

$k30 := 0.74$	Table 11.2.3-2 factor for TSP emissions (<30 μm)
$k10 := 0.35$	Table 11.2.3-2 factor for PM10 emissions (<10 μm)
$U := 7.8$	Avg. wind speed, mph
$m\_ash := 0.5$	Ash Moisture content, % (conservative)

AP-42 assigns "A" rating.

EF30 = Emission Factor for TSP
EF10 = Emission Factor for PM10

$$EF30 := k30 \cdot 0.0032 \cdot \left[\frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{m\_ash}{2}\right)^{1.4}} \right] \cdot \frac{lb}{ton} \qquad EF30 = 0.0294 \cdot \frac{lb}{ton}$$

Use for ash and pellet recycle:

$$EF10 := k10 \cdot 0.0032 \cdot \left[\frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{m\_ash}{2}\right)^{1.4}} \right] \cdot \frac{lb}{ton} \qquad EF10 = 0.0139 \cdot \frac{lb}{ton}$$

Use for ash and pellet recycle:

EMISSIONS CALCULATIONS, PTE

AF1

TSP

$MaxHourly := EF30 \cdot 0.1801 \cdot tph$ $\quad MaxHourly = 0.0053 \cdot \frac{lb}{hr}$

$MaxDaily := MaxHourly \cdot \frac{24 \cdot hr}{day}$ $\quad MaxDaily = 0.1271 \cdot \frac{lb}{day}$

$Annual := EF30 \cdot 1468 \cdot tpy$ $\quad Annual = 0.0216 \cdot tpy$

PM10

$MaxHourly := EF10 \cdot 0.1801 \cdot tph$ $\quad MaxHourly = 0.0025 \cdot \frac{lb}{hr}$

$MaxDaily := MaxHourly \cdot \frac{24 \cdot hr}{day}$ $\quad MaxDaily = 0.0601 \cdot \frac{lb}{day}$

$Annual := EF10 \cdot 1468 \cdot tpy$ $\quad Annual = 0.0102 \cdot tpy$

Scenario 2 Cedar Bay Ash Handling Fugitive Particulates (PM)

Process Throughput Assumptions for Calculating Fugitive Particulate Emissions from Ash Handling System, Estimated Potentials for Scenario 2

$tpy := \frac{ton}{yr}$ $tph := \frac{ton}{hr}$ $week := 5 \cdot day$ $month := \frac{yr}{12}$ Assume front end loader can deliver 60 tph maximum.

AF1 Transfer from overfill chutes from boiler beds to wheelbarrows

$wheelbarrow := 0.7 \cdot 40 \cdot gal \cdot 70 \cdot \frac{lb}{ft^3}$ $wheelbarrow = 262 \cdot lb$ Per K. Grant memo 4/3/96

$\frac{11 \cdot wheelbarrow}{8 \cdot hr} = 0.1801 \cdot tph$ $\frac{11 \cdot wheelbarrow}{8 \cdot hr} \cdot 8760 \cdot \frac{hr}{yr} \cdot 93 \cdot \% = 1468 \cdot tpy$ Permit to operate at 93% of capacity

AF2 Discharge chute from pellet screens:

Max hourly = 224 tons/hr

$Annual := \frac{1120 \cdot ton \cdot 4}{yr}$ $Annual = 4480 \cdot tpy$

AF3 Pelletizing area cleanup (drops and transfer to Pile) (100 ton/week)

$Hourly := 100 \cdot \frac{ton}{week} \cdot \frac{week}{40 \cdot hr}$ $Hourly = 2.5 \cdot tph$

$Annual := 100 \cdot \frac{ton}{week} \cdot 52 \cdot \frac{week}{yr}$ $Annual = 5200 \cdot tpy$

Per Sheet1 from Cedar Bay, use 5 ton/hour for maximum hourly rate

AF5 PILE: Transfer via front end loader from yard cleanup to Pile.

$Hourly := 60 \cdot tph$

Annual: AF2 + AF3 $(5200 + 4480) \cdot tpy = 9680 \cdot tpy$

AF6 Temporary Rail car loading

$Hourly := 60 \cdot tph$

$Annual := 100 \cdot \frac{ton}{week} \cdot 52 \cdot \frac{week}{yr}$ $Annual = 5200 \cdot tpy$

AF7 Front End loader Traffic

$Bucket := 4.5 \cdot yd^3$ $Bucket := Bucket \cdot 72 \cdot \frac{lb}{ft^3}$ $Bucket = 4.374 \cdot ton$

$VMT1 := 20 \cdot ft \cdot 4480 \cdot tpy \cdot \frac{2}{Bucket}$ Pile to Feed Hopper, round trip

$VMT2 := 200 \cdot ft \cdot 5200 \cdot tpy \cdot \frac{2}{Bucket}$ Pile to Temporary Rail Loading, round trip

$VMT3 := 50 \cdot ft \cdot 4480 \cdot tpy \cdot \frac{2}{Bucket}$ Discharge Chute to Pile, round trip

$VMT := VMT1 + VMT2 + VMT3$ $VMT = 117.2216 \cdot \frac{mi}{yr}$

$k := 1$ particle size multiplier, TSP, Stokes diameter. (Alternative 0.80, this is more conservative). Use 0.36 for PM10 (AP-42 4th ed. and 5th ed.)

$s := 50$ silt content, conversative estimate, since we have combination of fly ash, bed ash, and native soil..

$S := 5$ mean vehicle speed

$W := 30$ mean vehicle weight, ton

$w := 4$ mean number of wheels

$p := 115$ mean number days > 0.01 in. precipitation

$Eff := 70 \cdot \% \cdot 50 \cdot \%$ Control by wetting (70%) applied about 50% of time

For TSP,

$E := 5.9 \cdot k \cdot \frac{s}{12} \cdot \frac{S}{30} \cdot \left(\frac{W}{3}\right)^{0.7} \cdot \left(\frac{w}{4}\right)^{0.5} \cdot \frac{365 - p}{365} \cdot \frac{lb}{mi}$ $E = 14.0649 \cdot \frac{lb}{mi}$

$VMT \cdot E \cdot (1 - Eff) = 0.5358 \cdot tpy$ $5 \cdot \frac{mi}{hr} \cdot E = 70.3245 \cdot \frac{lb}{hr}$ Maximum speed 5 mph

For PM10, $k := 0.36$

$E := 5.9 \cdot k \cdot \frac{s}{12} \cdot \frac{S}{30} \cdot \left(\frac{W}{3}\right)^{0.7} \cdot \left(\frac{w}{4}\right)^{0.5} \cdot \frac{365 - p}{365} \cdot \frac{lb}{mi}$ $E = 5.0634 \cdot \frac{lb}{mi}$

$VMT \cdot E \cdot (1 - Eff) = 0.1929 \cdot tpy$ $5 \cdot \frac{mi}{hr} \cdot E = 25.3168 \cdot \frac{lb}{hr}$ Maximum speed 5 mph

Batch or Continuous Drop Emission factors

Particulate, AP-42 4th edl, Section 11.2.3

k30 := 0.74 Table 11.2.3-2 factor for TSP emissions (<30 μm)
k10 := 0.35 Table 11.2.3-2 factor for PM10 emissions (<10 μm)
U := 7.8 Avg. wind speed, mph
m_ash := 0.5 Ash Moisture content, % (conservative)

EF30 = Emission Factor for TSP
EF10 = Emission Factor for PM10

$$EF30 := k30 \cdot 0.0032 \cdot \left[\frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{m\_ash}{2}\right)^{1.4}} \right] \cdot \frac{lb}{ton} \qquad EF30 = 0.0294 \cdot \frac{lb}{ton}$$

Use for ash and pellet recycle:

$$EF10 := k10 \cdot 0.0032 \cdot \left[\frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{m\_ash}{2}\right)^{1.4}} \right] \cdot \frac{lb}{ton} \qquad EF10 = 0.0139 \cdot \frac{lb}{ton}$$

Use for ash and pellet recycle:

For Pellets, m_pellet := 1 % moisture content

$$EF30P := k30 \cdot 0.0032 \cdot \left[\frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{m\_pellet}{2}\right)^{1.4}} \right] \cdot \frac{lb}{ton} \qquad EF30P = 0.01114 \cdot \frac{lb}{ton}$$

$$EF10P := k10 \cdot 0.0032 \cdot \left[\frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{m\_pellet}{2}\right)^{1.4}} \right] \cdot \frac{lb}{ton} \qquad EF10P = 0.00527 \cdot \frac{lb}{ton}$$

EMISSIONS CALCULATIONS, potentials

AF1 TSP

MaxHourly := EF30·0.1801·tph MaxHourly = 0.0053 • lb/hr

MaxDaily := MaxHourly·24·hr/day MaxDaily = 0.1271 • lb/day

Annual := EF30·1468·tpy Annual = 0.0216 • tpy

PM10

MaxHourly := EF10·0.1801·tph MaxHourly = 0.0025 • lb/hr

MaxDaily := MaxHourly·24·hr/day MaxDaily = 0.0601 • lb/day

Annual := EF10·1468·tpy Annual = 0.0102 • tpy

AF2 TSP

MaxHourly := EF30P·224·tph MaxHourly = 2.4954 • lb/hr

MaxDaily := EF30P·1120·ton/day MaxDaily = 12.4768 • lb/day 1120 ton is capacity of one silo.

Annual := EF30P·4480·tpy Annual = 0.025 • tpy

PM10

MaxHourly := EF10P·224·tph MaxHourly = 1.1802 • lb/hr

MaxDaily := EF10P·1120·ton/day MaxDaily = 5.9012 • lb/day

Annual := EF10P·4480·tpy Annual = 0.0118 • tpy

AF3 TSP

MaxHourly := EF30·5·tph

$$\text{MaxHourly} = 0.147 \cdot \frac{\text{lb}}{\text{hr}}$$

MaxDaily := EF30·100·$\frac{\text{ton}}{5 \cdot \text{day}}$

$$\text{MaxDaily} = 0.588 \cdot \frac{\text{lb}}{\text{day}}$$

Annual := EF30·3340·tpy

$$\text{Annual} = 0.0491 \cdot \text{tpy}$$

PM10

MaxHourly := EF10·5·tph

$$\text{MaxHourly} = 0.0695 \cdot \frac{\text{lb}}{\text{hr}}$$

MaxDaily := EF10·100·$\frac{\text{ton}}{5 \cdot \text{day}}$

$$\text{MaxDaily} = 0.2781 \cdot \frac{\text{lb}}{\text{day}}$$

Annual := EF10·3340·tpy

$$\text{Annual} = 0.0232 \cdot \text{tpy}$$

AF5 TSP

MaxHourly := EF30·60·tph

$$\text{MaxHourly} = 1.7639 \cdot \frac{\text{lb}}{\text{hr}}$$

MaxDaily := 1120·$\frac{\text{ton}}{\text{day}}$·EF30P + 100·$\frac{\text{ton}}{5 \cdot \text{day}}$·EF30

$$\text{MaxDaily} = 13.0648 \cdot \frac{\text{lb}}{\text{day}}$$

Annual := EF30P·4480·tpy + EF30·5200·tpy

$$\text{Annual} = 0.1014 \cdot \text{tpy}$$

PM10

MaxHourly := EF10·60·tph

$$\text{MaxHourly} = 0.8343 \cdot \frac{\text{lb}}{\text{hr}}$$

MaxDaily := 1120·$\frac{\text{ton}}{\text{day}}$·EF10P + 100·$\frac{\text{ton}}{5 \cdot \text{day}}$·EF10

$$\text{MaxDaily} = 6.1793 \cdot \frac{\text{lb}}{\text{day}}$$

Annual := EF10P·4480·tpy + EF10·5200·tpy

$$\text{Annual} = 0.048 \cdot \text{tpy}$$

AF6 TSP

MaxHourly := EF30·60·tph

MaxHourly = 1.7639 lb/hr

MaxDaily := 100·ton/(5·day)·EF30

MaxDaily = 0.588 lb/day

Annual := EF30·(5200)·tpy

Annual = 0.0764 tpy

PM10

MaxHourly := EF10·60·tph

MaxHourly = 0.8343 lb/hr

MaxDaily := 100·ton/(5·day)·EF10

MaxDaily = 0.2781 lb/day

Annual := EF10·(5200)·tpy

Annual = 0.0362 tpy

AF11: RECYCLE SURGE HOPPER BAGHOUSE, ASF-FLT-3

acf := ft^3 dscf := ft^3 acfm := acf/min dscfm := dscf/min gr := lb/7000 StdTemp := (460 + 68)·R

	Parameters:	References:
Flow Rate	ACFM := 754·acfm	3-run test on 3-10-94 greater than BHA design Air Flow of 500 acfm
Moisture%	Moist := 3.42·%	3-run test on 3-10-94
Exit Temperature	T := (460 + 89)·R	3-run test on 3-10-94
Emission Rate	ER := 0.003·gr/dscf	Permit Condition
Allowable Hours	OPHR := 8760·hr/yr	

Potential Emissions:

SCFM := ACFM·(1 - Moist)·StdTemp/T SCFM = 700.358 dscfm

Eff := 70·% Control Efficiency for enclosure

E := SCFM·ER·(1 - Eff) E = 0.0054 lb/hr OPHR·E = 0.0237 tpy

Cedar Bay Scenario 1 for Ash Handling Point Sources

Ash Handling Point Source Calculations

$tpy := \frac{ton}{yr}$ $tph := \frac{ton}{hr}$ $week := 5 \cdot day$ $month := \frac{yr}{12}$ $acfm := \frac{ft^3}{min}$ $dscfm := \frac{ft^3}{min}$

$gr := \frac{lb}{7000}$ $acf := ft^3$ $dscf := ft^3$ $StdTemp := 460 \cdot R + 68 \cdot R$ $StdTemp = 528 \cdot R$

BHA design Air Flow refers to design rates furnished by BHA, regardless of actual designing firm.

A1: BED ASH SURGE HOPPER FILTER, ASA FLT-1

Parameters:		References:
Flow Rate	$ACFM := 670 \cdot acfm$	BHA design Air Flow (test 497)
Moisture%	$Moist := 0.587 \cdot \%$	Interpoll test, 3 run avg, 3-18-94
Exit Temperature	$T := (460 + 96) \cdot R$	Interpoll test, 3 run avg, 3-18-94
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR := 8760 \cdot \frac{hr}{yr}$	Permitted operating hours

Potential Emissions:

$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T}$ $SCFM = 633 \cdot dscfm$

$E := SCFM \cdot ER$ $E = 0.01626 \cdot \frac{lb}{hr}$ $OPHR \cdot E = 0.07124 \cdot tpy$

A2: BED ASH SILO FILTER, ASA-CO-2

Parameters:		References:
Flow Rate	$ACFM := 5345 \cdot acfm$	Test; BHA design Air Flow 3000
Moisture%	$Moist := 2.2 \cdot \%$	Air Consulting & Engineering April 1994
Exit Temperature	$T := (460 + 223) \cdot R$	Air Consulting & Engineering April 1994
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR = 8760 \cdot \frac{hr}{yr}$	Permitted operating hours

Potential Emissions:

$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T}$ $SCFM = 4041 \cdot dscfm$ ACE, 822 dscfm

$E := SCFM \cdot ER$ $E = 0.10391 \cdot \frac{lb}{hr}$ $OPHR \cdot E = 0.455 \cdot tpy$

A3: BED ASH SILO VENT FILTER, ASA-FLT-3

Parameters:		References:
Flow Rate	ACFM := 1800·acfm	BHA design 1800; (ACE, 642 acfm)
Moisture%	Moist := 1.61·%	Air Consulting & Engineering April 1994
Exit Temperature	T := (460 + 80)·R	Air Consulting & Engineering April 1994
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR = 8760 \cdot \frac{hr}{yr}$	Permitted operating hours

Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 1732 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 0.04453 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 0.195 \cdot tpy$$

A4 FLY ASH SILO SEPARATOR/COLLECTOR; ASA-CO1a

Parameters:		References:
Flow Rate	ACFM := 5974·acfm	ACE May 1994, avg tested is greater than BHA design Air Flow rate of 3000 acfm
Moisture%	Moist := 1.19·%	Air Consulting & Engineering May 1994, avg
Exit Temperature	T := (197.3 + 460)·R	Air Consulting & Engineering May 1994, avg
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR = 8760 \cdot \frac{hr}{yr}$	Permitted operating hours

Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 4742 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 0.12193 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 0.5341 \cdot tpy$$

A5: FLY ASH SILO SEPARATOR/COLLECTOR; ASA-CO1b

Parameters:		References:
Flow Rate	ACFM := 6074·acfm	ACE May 1994, avg tested is greater than BHA design Air Flow rate of 3000 acfm
Moisture%	Moist := 1.42·%	Air Consulting & Engineering May 1994, avg
Exit Temperature	T := (200 + 460)·R	Air Consulting & Engineering May 1994, avg
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR = 8760 \cdot \frac{hr}{yr}$	Permitted operating hours

Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 4790 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 0.12318 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 0.5395 \cdot tpy$$

A6: FLY ASH SILO VENT FILTER ASA-FLT-2

Parameters:		References:
Flow Rate	ACFM := 3700·acfm	BHA design Air Flow 3700 (ACE, 1069 acfm)
Moisture%	Moist := 1.58·%	Air Consulting & Engineering April 1994
Exit Temperature	T := (127 + 460)·R	Air Consulting & Engineering April 1994
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR = 8760 \cdot \frac{hr}{yr}$	Permitted operating hours

Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 3276 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 0.08423 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 0.369 \cdot tpy$$

A18: DRY ASH RAIL CAR LOADOUT BAGHOUSE FILTER

Parameters:		References:
Flow Rate	ACFM := 20000·acfm	Design per 3/18/96 Memo from K. Grant
Moisture%	Moist := 1·%	Assumed
Exit Temperature	T := (120 + 460)·R	Assumed 120°F
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR := 8760 \cdot \frac{hr}{yr}$	No restrictions on operating hours, per K. Grant memo 3/18/96

Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 18025 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 0.4635 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 2.03 \cdot tpy$$

Cedar Bay Scenario 2 for Ash Handling Point Sources

Ash Handling Point Source Calculations

$tpy := \frac{ton}{yr}$ $tph := \frac{ton}{hr}$ $week := 5 \cdot day$ $month := \frac{yr}{12}$ $acfm := \frac{ft^3}{min}$ $dscfm := \frac{ft^3}{min}$

$gr := \frac{lb}{7000}$ $acf := ft^3$ $dscf := ft^3$ $StdTemp := 460 \cdot R + 68 \cdot R$ $StdTemp = 528 \cdot R$

BHA design Air Flow refers to design rates furnished by BHA, regardless of actual designing firm.

A1: BED ASH SURGE HOPPER FILTER, ASA FLT-1

Parameters:		References:
Flow Rate	$ACFM := 670 \cdot acfm$	BHA design Air Flow (test 497)
Moisture%	$Moist := 0.587 \cdot \%$	Interpoll test, 3 run avg, 3-18-94
Exit Temperature	$T := (460 + 96) \cdot R$	Interpoll test, 3 run avg, 3-18-94
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR := 8760 \cdot \frac{hr}{yr}$	Per Permit

Potential Emissions:

$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T}$ $SCFM = 633 \cdot dscfm$

$E := SCFM \cdot ER$ $E = 0.01626 \cdot \frac{lb}{hr}$ $OPHR \cdot E = 0.07124 \cdot tpy$

A2: BED ASH SILO FILTER, ASA-CO-2

Parameters:		References:
Flow Rate	$ACFM := 5345 \cdot acfm$	Test; BHA design Air Flow 3000
Moisture%	$Moist := 2.2 \cdot \%$	Air Consulting & Engineering April 1994
Exit Temperature	$T := (460 + 223) \cdot R$	Air Consulting & Engineering April 1994
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR = 8760 \cdot \frac{hr}{yr}$	Per 1993 AQA

Potential Emissions:

$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T}$ $SCFM = 4041 \cdot dscfm$ ACE, 822 dscfm

$E := SCFM \cdot ER$ $E = 0.10391 \cdot \frac{lb}{hr}$ $OPHR \cdot E = 0.455 \cdot tpy$

A3: BED ASH SILO VENT FILTER, ASA-FLT-3

Parameters:		References:
Flow Rate	ACFM := 1800·acfm	BHA design 1800; (ACE, 642 acfm)
Moisture%	Moist := 1.61·%	Air Consulting & Engineering April 1994
Exit Temperature	T := (460 + 80)·R	Air Consulting & Engineering April 1994
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR = 8760 \cdot \frac{hr}{yr}$	Per 1993 AQA

Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 1732 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 0.04453 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 0.195 \cdot tpy$$

A4 FLY ASH SILO SEPARATOR/COLLECTOR; ASA-CO1a

Parameters:		References:
Flow Rate	ACFM := 5974·acfm	ACE May 1994, avg tested is greater than BHA design Air Flow rate of 3000 acfm
Moisture%	Moist := 1.19·%	Air Consulting & Engineering May 1994, avg
Exit Temperature	T := (197.3 + 460)·R	Air Consulting & Engineering May 1994, avg
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR = 8760 \cdot \frac{hr}{yr}$	Per 1993 AQA

Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 4742 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 0.12193 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 0.534 \cdot tpy$$

A5: FLY ASH SILO SEPARATOR/COLLECTOR; ASA-CO1b

Parameters:		References:
Flow Rate	$ACFM := 6074 \cdot acfm$	ACE May 1994, avg tested is greater than BHA design Air Flow rate of 3000 acfm
Moisture%	$Moist := 1.42 \cdot \%$	Air Consulting & Engineering May 1994, avg
Exit Temperature	$T := (200 + 460) \cdot R$	Air Consulting & Engineering May 1994, avg
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR = 8760 \cdot \frac{hr}{yr}$	Per 1993 AQA

Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 4790 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 0.12318 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 0.54 \cdot tpy$$

A6: FLY ASH SILO VENT FILTER ASA-FLT-2

Parameters:		References:
Flow Rate	$ACFM := 3700 \cdot acfm$	BHA design Air Flow 3700 (ACE, 1069 acfm)
Moisture%	$Moist := 1.58 \cdot \%$	Air Consulting & Engineering April 1994
Exit Temperature	$T := (127 + 460) \cdot R$	Air Consulting & Engineering April 1994
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR = 8760 \cdot \frac{hr}{yr}$	Per 1993 AQA

Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 3276 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 0.08423 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 0.369 \cdot tpy$$

A7: BED ASH RECEIVER BAGHOUSE, ASF-FLT-2

Parameters:		References:
Flow Rate	$ACFM := 4000 \cdot acfm$	BHA design Air Flow (Test 3959)
Moisture%	$Moist := 1.82 \cdot \%$	3-run test on 3-9-94
Exit Temperature	$T := (460 + 101) \cdot R$	3-run test on 3-9-94
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR := 8760 \cdot \frac{hr}{yr}$	Per 1993 AQA

Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 3696 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 0.09504 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 0.416 \cdot tpy$$

A8: FLY ASH RECEIVER BAGHOUSE, ASF-FLT-1

Parameters:		References:
Flow Rate	ACFM := 4625·acfm	3-run test on 3-9-94 greater than BHA design Air Flow of 3800 acfm
Moisture%	Moist := 1.85·%	3-run test on 3-9-94
Exit Temperature	T := (460 + 119)·R	3-run test on 3-9-94
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR = 8760 \cdot \frac{hr}{yr}$	Per 1993 AQA

Potential Emissions:

$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T}$ $SCFM = 4140 \cdot dscfm$ (test, 4100 dscfm)

$E := SCFM \cdot ER$ $E = 0.10645 \cdot \frac{lb}{hr}$ $OPHR \cdot E = 0.466 \cdot tpy$

A9: RECYCLE SURGE HOPPER BAGHOUSE, ASF-FLT-3

Deleted: Operated within a building, therefore a fugitive. Moved to fugitive calculations.

A10: RECYCLE TANK BAGHOUSE, ASF-DCO-2

Parameters:		References:
Flow Rate	$ACFM := 1100 \cdot acfm$	3-run test 3-11-94 greater than BHA design Air Flow of 1000 acfm
Moisture%	$Moist := 1.89 \cdot \%$	3-run test on 3-11-94
Exit Temperature	$T := (460 + 70) \cdot R$	3-run test on 3-11-94
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR = 8760 \cdot \frac{hr}{yr}$	Per 1993 AQA

Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 1075 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 0.02765 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 0.12109 \cdot tpy$$

A11: VENTURI SCRUBBER, ASF-SCB-1

Parameters:		References:
Flow Rate	$ACFM := 15900 \cdot acfm$	3-run test on 3-10-94 greater than BHA design Air Flow of 13,500 acfm
Moisture%	$Moist := 2.94 \cdot \%$	3-run test on 3-10-94
Exit Temperature	$T := (460 + 95.7) \cdot R$	3-run test on 3-10-94
Emission Rate	$ER := 0.01 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR = 8760 \cdot \frac{hr}{yr}$	Per 1993 AQA

Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 14663 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 1.25685 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 5.50501 \cdot tpy$$

A12: PAN INPINGEMENT SCRUBBER, ASF-SCB-2

Parameters:		References:
Flow Rate	$ACFM := 14740 \cdot acfm$	BHA design Air Flow 14740,
Moisture%	$Moist := 4.6 \cdot \%$	ACE July 94: 12341 acfm
Exit Temperature	$T := (460 + 90) \cdot R$	
Emission Rate	$ER := 0.01 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR = 8760 \cdot \frac{hr}{yr}$	Per 1993 AQA

Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 13499 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 1.1571 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 5.07 \cdot tpy$$

A13: PELLET CURING SILO SCRUBBER, ASF-SCB-3

Parameters:		References:
Flow Rate	ACFM := 6531·acfm	BHA design Air Flow 5940, Test 6531
Moisture%	Moist := 5.61·%	Air Consulting & Engineering April 1994
Exit Temperature	T := (460 + 98)·R	Air Consulting & Engineering April 1994
Emission Rate	$ER := 0.01 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR = 8760 \cdot \frac{hr}{yr}$	Per 1993 AQA

Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 5833 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 0.49999 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 2.18994 \cdot tpy$$

A14: PELLET CURING SILOS BAGHOUSE, ASF-DCO4

Parameters:		References:
Flow Rate	ACFM := 2100·acfm	BHA design Air Flow 2100, Test 1283
Moisture%	Moist := 5.65·%	ACE 7/28-7/29/94
Exit Temperature	T := (460 + 99.3)·R	
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR = 8760 \cdot \frac{hr}{yr}$	Per 1993 AQA

Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 1870 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 0.0481 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 0.21067 \cdot tpy$$

A15: LOADOUT RAIL HOPPER BAGHOUSE ASF-DCO-3

Parameters:		References:
Flow Rate	ACFM := 4500·acfm	Interpoll 3-9-94 3404; Design 4500
Moisture%	Moist := 1.95·%	
Exit Temperature	T := (460 + 85)·R	
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR = 8760 \cdot \frac{hr}{yr}$	Per 1993 AQA

Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 4275 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 0.10992 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 0.4814 \cdot tpy$$

A16: PELLET RECYCLE CONVEYOR BAGHOUSE, ASF-DCO-5

Parameters:		References:
Flow Rate	ACFM := 1562·acfm	BHA design Flow Rate 1500, test 1562
Moisture%	Moist := 4.6·%	ACE, June 1994
Exit Temperature	T := (460 + 90)·R	
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR = 8760 \cdot \frac{hr}{yr}$	Per 1993 AQA

Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 1431 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 0.03679 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 0.1611 \cdot tpy$$

A17: PELLET SCREEN HOPPER/FEED HOPPER BAGHOUSE, ASF-DCO1

Parameters:		References:
Flow Rate	ACFM := 15000·acfm	BHA design Flow Rate15000, Test 10845
Moisture%	Moist := 5.0·%	ACE, July 1994
Exit Temperature	T := (460 + 103.8)·R	
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR = 8760 \cdot \frac{hr}{yr}$	Per 1993 AQA

Potential Emissions:

$$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T} \qquad SCFM = 13345 \cdot dscfm$$

$$E := SCFM \cdot ER \qquad E = 0.34316 \cdot \frac{lb}{hr} \qquad OPHR \cdot E = 1.503 \cdot tpy$$

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

Check one:

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section: **ZF1, Fugitive emissions from Zero Discharge wastewater holding unit.**		
2. ARMS Identification Number: [X] No Corresponding ID [ ] Unknown		
3. Emissions Unit Status Code:	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code:
6. Initial Startup Date (DD-MON-YYYY): **25- JAN- 1994**		
7. Long-term Reserve Shutdown Date (DD-MON-YYYY):		
8. Package Unit: Manufacturer: Model Number:		
9. Generator Nameplate Rating: MW		
10. Incinerator Information: Dwell Temperature: °F Dwell Time: seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment: **Fugitive Emissions from wastewater holding unit chlorine treatment.**		

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate: **2,020 gpm**		
4. Maximum Production Rate:		
5. Operating Capacity Comment:		

Source-specific process rates vary internally due to circulation.

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

24 hours/day	**7** days/week
52 weeks/year	**8760** hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

Not found.	

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: **ZF1: Wastewater Holding Unit**
2. Emission Point Type Code: [ ] 1 [ ] 2 [ ] 3 [**X**] 4
3. Descriptions of Emissions Points Comprising this Emissions Unit:
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code: [ ] D [**X**] F [ ] H [ ] P [ ] R [ ] V [ ] W
6. Stack Height: feet
7. Exit Diameter: feet
8. Exit Temperature: **68**°F
9. Actual Volumetric Flow Rate: acfm

10. Percent 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:	

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **Chlorine Emissions, from maintaining residual chlorine levels in process stream.** **Emissions related to process throughput, gallons.**	
2. Source Classification Code (SCC): **Not determined.**	
3. SCC Units: **N/A**	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:
6. Estimated Annual Activity Factor: **2,020 gallons**	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment:	

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID:5402-067-Z1 [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [**X**] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [**X**] Not Applicable

12. Enhanced Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable **Reserved**

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [**X**] Not Applicable

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[**X**] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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.

[ ] 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.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section:

Z1: Cooling Tower

2. ARMS Identification Number: [ ] No Corresponding ID [**X**] Unknown

3. Emissions Unit Status Code: **A**	4. Acid Rain Unit? [ ] Yes [**X**] No	5. Emissions Unit Major Group SIC Code: **49**

6. Initial Startup Date (DD-MON-YYYY): **25-JAN-1994**

7. Long-term Reserve Shutdown Date (DD-MON-YYYY):

8. Package Unit:
Manufacturer: Model Number:

9. Generator Nameplate Rating: MW

10. Incinerator Information:
Dwell Temperature: °F
Dwell Time: seconds
Incinerator Afterburner Temperature : °F

11. Emissions Unit Comment:

Cooling Tower was evaluated in 1993 Air Quality Analysis.

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	**Flow: 2,680 gpm** **Circulation Rate: 160,000 gpm**	
4. Maximum Production Rate:		
5. Operating Capacity Comment:		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

24 hours/day	**7** days/week
52 weeks/year	**8760** hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.320(4)(b)	General Visible Emission Standard.

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: **Z1: Cooling Tower**	
2. Emission Point Type Code: [ ] 1 [ ] 2 [X] 3 [ ] 4	
3. Descriptions of Emissions Points Comprising this Emissions Unit: **Tower consists of 7 cells as described in 1993 Air Quality analysis.**	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:	
5. Discharge Type Code: [ ] D [ ] F [ ] H [ ] P [ ] R [X] V [ ] W	
6. Stack Height:	**49** feet
7. Exit Diameter:	**32** feet
8. Exit Temperature:	**109°F**
9. Actual Volumetric Flow Rate:	**9,920,000** acfm

10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	100 feet
13. Emission Point UTM Coordinates: Zone: **0903** East (km): **441.594** North (km): **3365.7**	
14. Emission Point Comment:	

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **Chlorine losses (emmissions related to gallons processed).**	
2. Source Classification Code (SCC): 30600701	
3. SCC Units: MM gallons cooling water	
4. Maximum Hourly Rate: **160,800 gal**	5. Maximum Annual Rate: **1,409 MMgal**
6. Estimated Annual Activity Factor: **1,409 MMgal**	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment:	

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **PM losses (emissions related to gallons circulated).**	
2. Source Classification Code (SCC): 30600701	
3. SCC Units: MM gallons cooling water	
4. Maximum Hourly Rate: **9.6 MMgal**	5. Maximum Annual Rate: **84,096 MMgal**
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment:	

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 1 of 3

1. Pollutant Emitted: **Chlorine**		
2. Total Percent Efficiency of Control:		%
3. Primary Control Device Code:		
4. Secondary Control Device Code:		
5. Potential Emissions:	**0.635** lb/hour	**2.78** tons/year
6. Synthetically Limited? [ ] Yes [**X**] No		
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____	tons/year
8. Emission Factor: **Material balance -- see calculations.** Reference:		
9. Emissions Method Code: [ ] 1 [**X**] 2 [ ] 3 [ ] 4 [ ] 5		
10. Calculation of Emissions: **See attached calculations for Cooling Tower at end of Zero Discharge Section.**		
11. Pollutant Potential/Estimated Emissions Comment:		

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 2 of 3

1. Pollutant Emitted: **PM**
2. Total Percent Efficiency of Control: %
3. Primary Control Device Code:
4. Secondary Control Device Code:
5. Potential Emissions: **0.564** lb/hour **24.7** tons/year
6. Synthetically Limited? [ ] Yes [**X**] No
7. Range of Estimated Fugitive/Other Emissions: [**X**] 1 [ ] 2 [ ] 3 _____ to _____ tons/year
8. Emission Factor: **Material Balance - See calculations.** Reference: **Black and Veatch.**
9. Emissions Method Code: [ ] 1 [**X**] 2 [ ] 3 [ ] 4 [ ] 5
10. Calculation of Emissions: **See attached calculation for Cooling Tower at end of Zero Discharge Section.**
11. Pollutant Potential/Estimated Emissions Comment:

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 3 of 3

1. Pollutant Emitted: **PM10**
2. Total Percent Efficiency of Control: %
3. Primary Control Device Code:
4. Secondary Control Device Code:
5. Potential Emissions: **2.61** lb/hour **11.4** tons/year
6. Synthetically Limited? [ ] Yes [X] No
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year
8. Emission Factor: **Material balance -- see calculations.** Reference: **Black and Veatch**
9. Emissions Method Code: [ ] 1 [X] 2 [ ] 3 [ ] 4 [ ] 5
10. Calculation of Emissions: **See attached calculation for Cooling Tower at end of Zero Discharge Section.**
11. Pollutant Potential/Estimated Emissions Comment:

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:		
PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment:

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID:5402-067-Z1 [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [**X**] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [**X**] Not Applicable

12. Enhanced Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable **Reserved**

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [**X**] Not Applicable

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[**X**] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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.

[ ] 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.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section:

Z1: Cooling Tower

2. ARMS Identification Number: [ ] No Corresponding ID [X] Unknown

3. Emissions Unit Status Code: **A**	4. Acid Rain Unit? [ ] Yes [**X**] No	5. Emissions Unit Major Group SIC Code: **49**

6. Initial Startup Date (DD-MON-YYYY): **25-JAN-1994**

7. Long-term Reserve Shutdown Date (DD-MON-YYYY):

8. Package Unit:
Manufacturer: Model Number:

9. Generator Nameplate Rating: MW

10. Incinerator Information:
Dwell Temperature: °F
Dwell Time: seconds
Incinerator Afterburner Temperature : °F

11. Emissions Unit Comment:

Cooling Tower was evaluated in 1993 Air Quality Analysis.

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	**Flow: 2,680 gpm** **Circulation Rate: 160,000 gpm**	
4. Maximum Production Rate:		
5. Operating Capacity Comment:		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

24 hours/day	**7** days/week
52 weeks/year	**8760** hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

F.A.C. 62-296.320(4)(b)	General Visible Emission Standard.

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: **Z1: Cooling Tower**	
2. Emission Point Type Code: [ ] 1 [ ] 2 [X] 3 [ ] 4	
3. Descriptions of Emissions Points Comprising this Emissions Unit: **Tower consists of 7 cells as described in 1993 Air Quality analysis.**	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:	
5. Discharge Type Code: [ ] D [ ] F [ ] H [ ] P [ ] R [X] V [ ] W	
6. Stack Height:	**49** feet
7. Exit Diameter:	**32** feet
8. Exit Temperature:	**109**°F
9. Actual Volumetric Flow Rate:	**9,920,000** acfm

10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	100 feet
13. Emission Point UTM Coordinates: Zone: **0903** East (km): **441.594** North (km): **3365.7**	
14. Emission Point Comment:	

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **Chlorine losses (emmissions related to gallons processed).**	
2. Source Classification Code (SCC): 30600701	
3. SCC Units: MM gallons cooling water	
4. Maximum Hourly Rate: **160,800 gal**	5. Maximum Annual Rate: **1,409 MMgal**
6. Estimated Annual Activity Factor: **1,409 MMgal**	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment:	

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode): **PM losses (emissions related to gallons circulated).**	
2. Source Classification Code (SCC): 30600701	
3. SCC Units: MM gallons cooling water	
4. Maximum Hourly Rate: **9.6 MMgal**	5. Maximum Annual Rate: **84,096 MMgal**
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment:	

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 1 of 3

1. Pollutant Emitted: **Chlorine**		
2. Total Percent Efficiency of Control:		%
3. Primary Control Device Code:		
4. Secondary Control Device Code:		
5. Potential Emissions:	**0.635** lb/hour	**2.78** tons/year
6. Synthetically Limited? [ ] Yes [X] No		
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year	
8. Emission Factor: **Material balance -- see calculations.** Reference:		
9. Emissions Method Code: [ ] 1 [X] 2 [ ] 3 [ ] 4 [ ] 5		
10. Calculation of Emissions: **See attached calculations for Cooling Tower at end of Zero Discharge Section.**		
11. Pollutant Potential/Estimated Emissions Comment:		

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 2 of 3

1. Pollutant Emitted: **PM**	
2. Total Percent Efficiency of Control:	%
3. Primary Control Device Code:	
4. Secondary Control Device Code:	
5. Potential Emissions: **0.564** lb/hour	**24.7** tons/year
6. Synthetically Limited? [ ] Yes [X] No	
7. Range of Estimated Fugitive/Other Emissions: [X] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **Material Balance - See calculations.** Reference: **Black and Veatch.**	
9. Emissions Method Code: [ ] 1 [X] 2 [ ] 3 [ ] 4 [ ] 5	
10. Calculation of Emissions: **See attached calculation for Cooling Tower at end of Zero Discharge Section.**	
11. Pollutant Potential/Estimated Emissions Comment:	

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 3 of 3

1. Pollutant Emitted: **PM10**	
2. Total Percent Efficiency of Control:	%
3. Primary Control Device Code:	
4. Secondary Control Device Code:	
5. Potential Emissions: **2.61** lb/hour	**11.4** tons/year
6. Synthetically Limited? [ ] Yes [X] No	
7. Range of Estimated Fugitive/Other Emissions: [ ] 1 [ ] 2 [ ] 3	_____ to _____ tons/year
8. Emission Factor: **Material balance -- see calculations.** Reference: **Black and Veatch**	
9. Emissions Method Code: [ ] 1 [X] 2 [ ] 3 [ ] 4 [ ] 5	
10. Calculation of Emissions: **See attached calculation for Cooling Tower at end of Zero Discharge Section.**	
11. Pollutant Potential/Estimated Emissions Comment:	

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [X] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:		
PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment:

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

Supplemental Requirements for All Applications

1. Process Flow Diagram [X] Attached, Document ID:5402-067-Z1 [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Enhanced Monitoring Plan
[ ] Attached, Document ID:_____ [ ] Not Applicable **Reserved**

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [X] Not Applicable

14. Acid Rain Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L 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. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

[ ] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[X] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] 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.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): **Z2: Soda Ash Silo**		
2. Emissions Unit Identification Number: [X] No Corresponding ID [ ] Unknown		
3. Emissions Unit Status Code: **A**	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: **49**
6. Emissions Unit Comment (limit to 500 characters):		

Emissions Unit Control Equipment

A.

1. Description (limit to 200 characters): **Fabric Filter, low temp.**
2. Control Device or Method Code: **018**

F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): **Soda Ash Silo Storage**	
2. Source Classification Code (SCC): **30102122**	
3. SCC Units: **Tons Processed**	
4. Maximum Hourly Rate: **51**	5. Maximum Annual Rate: **2,000**
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters):	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**WP**
PM10	**018**		**WP**

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:

PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:

PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment (limit to 200 characters):

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L 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. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one:

[ ] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

[X] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one:

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] 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.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): **Z3: Lime Storage Silo**		
2. Emissions Unit Identification Number: [X] No Corresponding ID [ ] Unknown		
3. Emissions Unit Status Code: **A**	4. Acid Rain Unit? [ ] Yes [X] No	5. Emissions Unit Major Group SIC Code: **49**
6. Emissions Unit Comment (limit to 500 characters):		

Emissions Unit Control Equipment

A.

1. Description (limit to 200 characters): **Fabric Filter - low temp.**
2. Control Device or Method Code: **018**

F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): **Lime Silo Storage**	
2. Source Classification Code (SCC): **30501613**	
3. SCC Units: **Tons**	
4. Maximum Hourly Rate: **35**	5. Maximum Annual Rate: **2020**
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters):	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	**018**		**WP**
PM10	**018**		**WP**

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

   If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

   [ ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [X] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.

   [ ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

[ ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

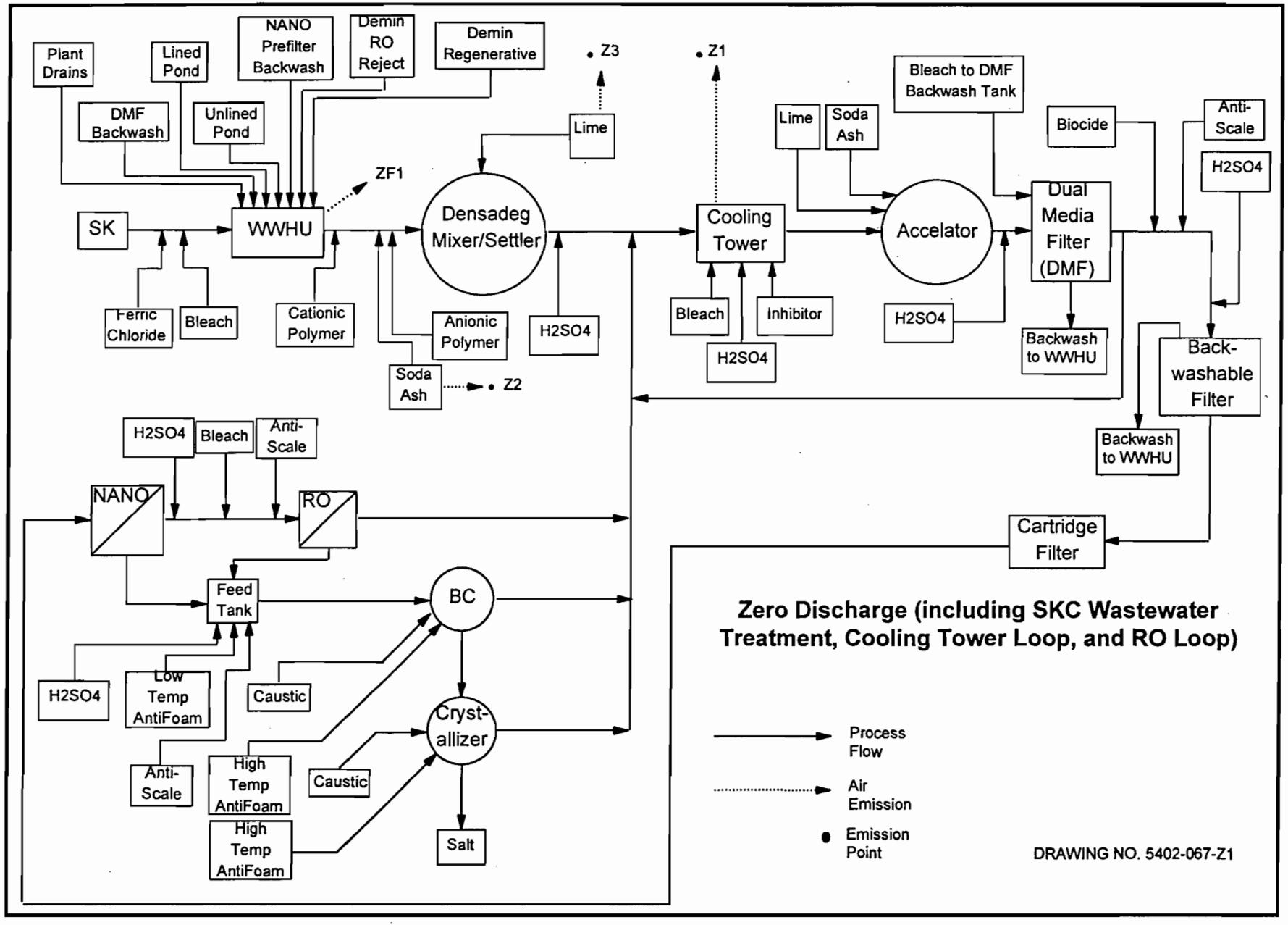
[ ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code:			
PM	[X] C	[ ] E	[ ] Unknown
SO2	[ ] C	[ ] E	[ ] Unknown
NO2	[ ] C	[ ] E	[ ] Unknown

4. Baseline Emissions:		
PM	lb/hour	tons/year
SO2	lb/hour	tons/year
NO2		tons/year

5. PSD Comment (limit to 200 characters):


Plant Drains
Lined Pond
NANO Prefilter Backwash
Demin RO Reject
Demin Regenerative
Z3
Z1
DMF Backwash
Unlined Pond
Lime
Lime
Soda Ash
Bleach to DMF Backwash Tank
Biocide
Anti-Scale
H2SO4
ZF1
SK
WWHU
Densadeg Mixer/Settler
Cooling Tower
Accelator
Dual Media Filter (DMF)
Ferric Chloride
Bleach
Cationic Polymer
Anionic Polymer
H2SO4
Soda Ash
Z2
Bleach
Inhibitor
H2SO4
H2SO4
Backwash to WWHU
Back-washable Filter
Backwash to WWHU
H2SO4
Bleach
Anti-Scale
NANO
RO
Cartridge Filter
Feed Tank
BC
H2SO4
Low Temp AntiFoam
Caustic
Anti-Scale
High Temp AntiFoam
Caustic
Cryst-allizer
High Temp AntiFoam
Salt
Zero Discharge (including SKC Wastewater Treatment, Cooling Tower Loop, and RO Loop)
Process Flow
Air Emission
Emission Point
DRAWING NO. 5402-067-Z1

1. Computation of Maximum Chlorine Emissions:

Data: (from Cedar Bay Operations)

Flow from Seminole Kraft(SK) to Waste Water Holding Unit(WWHU) = 2000 gpm
Concentration of chlorine in flow from SK to WWHU = 0.5 ppm residual
Flow from Dual Media Filter(DMF) Backwash to WWHU = 20 gpm
Concentration of chlorine in flow from DMF Backwash to WWHU = 0.5 ppm residual
Flow to Cooling Tower(CT) = 2,500 gpm
Concentration of chlorine in flow to CT = 0.5 ppm residual
Flow of Reverse Osmosis(RO) product = 180 gpm
Concentration of chlorine in RO product = 0.1 ppm residual

It is assumed that all of the residual chlorine is ultimately emitted from the process into the atmosphere.

$$F1 := 2000 \cdot \frac{gal}{min} \cdot \frac{8.34 \cdot lb}{gal} \cdot \frac{0.5 \cdot lb}{10^6 \cdot lb} \cdot \frac{60 \cdot min}{hr}$$

$$F1 = 0.5 \cdot \frac{lb}{hr}$$

Chlorine emission from flow SK to WWHU

$$F2 := 20 \cdot \frac{gal}{min} \cdot \frac{8.34 \cdot lb}{gal} \cdot \frac{0.5 \cdot lb}{10^6 \cdot lb} \cdot \frac{60 \cdot min}{hr}$$

$$F2 = 5.004 \cdot 10^{-3} \cdot \frac{lb}{hr}$$

Chlorine emission from flow DMF Backwash to WWHU

$$F3 := 2500 \cdot \frac{gal}{min} \cdot \frac{8.34 \cdot lb}{gal} \cdot \frac{0.5 \cdot lb}{10^6 \cdot lb} \cdot \frac{60 \cdot min}{hr}$$

$$F3 = 0.626 \cdot \frac{lb}{hr}$$

Chlorine emission from the Cooling Tower Flow

$$F4 := 180 \cdot \frac{gal}{min} \cdot \frac{8.34 \cdot lb}{gal} \cdot \frac{0.1 \cdot lb}{10^6 \cdot lb} \cdot \frac{60 \cdot min}{hr}$$

$$F4 = 9.0072 \cdot 10^{-3} \cdot \frac{lb}{hr}$$

Chlorine emission from RO Product Flow

Maximum Chlorine Emissions from the Water Treating Plant:

$$F1 + F2 + F3 + F4 = 1.14 \cdot \frac{lb}{hr}$$ Maximum chlorine emissions

$$(F1 + F2 + F3 + F4) \cdot \frac{8760 \cdot hr}{yr} \cdot \frac{ton}{2000 \cdot lb} = 4.99 \cdot \frac{ton}{yr}$$

From Fugitive Emission ID ZF1:

$$(F1 + F2) = 0.505 \cdot \frac{lb}{hr}$$ Maximum chlorine emissions

$$(F1 + F2) \cdot \frac{8760 \cdot hr}{yr} \cdot \frac{ton}{2000 \cdot lb} = 2.21 \cdot \frac{ton}{yr}$$ Maximum chlorine emissions

From Emission Point Z1:

$$(F3 + F4) = 0.635 \cdot \frac{lb}{hr}$$ Maximum chlorine emissions

$$(F3 + F4) \cdot \frac{8760 \cdot hr}{yr} \cdot \frac{ton}{2000 \cdot lb} = 2.78 \cdot \frac{ton}{yr}$$ Maximum chlorine emissions

2. Computation of Particulate Emissions from the Cooling Tower (Z1):

Parameter:	Reference:
Circulation Rate = 160,000 gpm	Cedar Bay plant personnel confirmed
Drift Elimination Efficiency = 0.001 %	Black & Veatch Memorandum from A.L. Carson to M.A. Perry, 10/14/92.)
Total Dissolved Solids = 13,000 ppm	Cedar Bay plant personnel confirmed
Total Suspended Solids = 50 ppm	Cedar Bay plant personnel confirmed
Drift <50 microns = 54 %	Black & Veatch Memorandum from A.L. Carson to M.A. Perry, 10/14/92.)
Drift <20 microns = 25 %	Black & Veatch Memorandum from A.L. Carson to M.A. Perry, 10/14/92.)

Drift Loss Rate = (160,000 gpm)(0.001/100) = 1.6 gpm
Total Solids = 13,000 + 50 = 13,050 ppm

Particulate emissions from the cooling tower (Z1):

$$P := 1.6 \cdot \frac{gal}{min} \cdot 60 \cdot \frac{min}{hr} \cdot 8.34 \cdot \frac{lb}{gal} \cdot \frac{13050 \cdot lb}{10^6 \cdot lb} \cdot 0.54 \qquad PM10 := P \cdot \frac{0.25}{0.54}$$

$$P = 5.64 \cdot \frac{lb}{hr} \qquad PM10 = 2.61 \cdot \frac{lb}{hr}$$

$$P \cdot \frac{8760 \cdot hr}{yr} \cdot \frac{ton}{2000 \cdot lb} = 24.7 \cdot \frac{ton}{yr} \qquad PM10 \cdot \frac{8760 \cdot hr}{yr} \cdot \frac{ton}{2000 \cdot lb} = 11.4 \cdot \frac{ton}{yr}$$

3. Computation of Fugitive Emissions Resulting from Unloading Lime and Soda Ash

Data: (From Cedar Bay operations)

Mass of Lime Unloaded per Batch = 1400 cubic feet
Frequency of Batches = 1.5/week
Mass of Soda Ash Unloaded per Batch = 1000 cubic feet
Frequency of Batches = 1/week
Time required to unload one batch = 0.75 hr
Bulk Density of Lime = 37 lb/cu ft
Bulk Density of Soda Ash = 76 lb/cu ft
Air flow rate = 750 cfm

$gr := \frac{lb}{7000}$ $tpy := \frac{ton}{yr}$

$cfm := \frac{ft^3}{min}$

$scf := ft^3$

Lime Loading, Emission Point Z3:

$$PM := 0.003 \cdot \frac{gr}{scf} \cdot 750 \cdot cfm \cdot \frac{lb}{7000 \cdot gr} \cdot 60 \cdot \frac{min}{hr} \cdot 0.75 \cdot 1.5 \cdot \frac{hr}{week} \cdot 52 \cdot \frac{week}{yr} \cdot \frac{ton}{2000 \cdot lb}$$

$PM = 0.00056 \cdot tpy$

Soda Ash, Emission Point Z2, Controlled Emission Rate

$$PM := 0.003 \cdot \frac{gr}{scf} \cdot 750 \cdot cfm \cdot \frac{lb}{7000 \cdot gr} \cdot 60 \cdot \frac{min}{hr} \cdot 0.75 \cdot \frac{hr}{week} \cdot 52 \cdot \frac{week}{yr} \cdot \frac{ton}{2000 \cdot lb}$$

$PM = 0.00038 \cdot tpy$

Cedar Bay Generating Company
Limited Partnership

April 2, 1996

Mr. Bruce Mitchell
Administrator, Title V Program
Florida Department of Environmental Protection
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Subject: **Insignificant Source Listing**
Cedar Bay Generating Facility

Dear Mr. Mitchell

Consistent with your discussion with Don Beckham on exempt sources, a list of sources that we believe are exempt from Title V permitting has been compiled for the Cedar Bay Generating Facility. We are submitting this listing for your advance review to obtain the DEP's concurrence on the exempt status. We have provided a list of each source identified as exempt, the basis for that determination and supplemental information necessary to support that presumption.

We would appreciate your review and concurrence with our position on these sources. In the Title V application, we will include all of Cedar Bay's emission units, including those defined as insignificant; your letter response to this request will be attached as documentation.

We look forward to your approval or comments on this request. Do not hesitate to contact me at (904) 751-4000, extension 17 if you require additional information, or to schedule a visit to the Cedar Bay Generating Plant to review any of the identified sources.

Sincerely,

Timothy J. Cotner
Plant Director

TJC/aen

P.O. Box 26324 • 9640 Eastport Road • Jacksonville, FL 32226-6324 • 904-751-4000 • Fax 904-751-7320
An affiliate of U.S. Generating Company

Enclosures:
1. List of Significant/Exempt Activities
2. Letter from Howard L. Rhodes, FDEP to Angela Morrison, Hopping, Boyd, Green and Sams, dated May 20, 1994
3. Tanks 2 Calculations
4. Calculations for Specific Activities

cc: D. Beckham
K. Field, ENSR
T.M. Murray, Banque Paribas

List of Insignificant/Exempt Activities		
No.	Source/Activity	Reason for Exemption/Insignificance
1	Ash Handling Systems Pressure/Vacuum Relief Valves.	Safety use only. Normal relief is provided by baghouse blower and vent. (FAC 62-210.300(3)(a)~~(21)~~ (22) fire & safety equipment
2	Coal additives for improved flow.	Exempt. No regulated pollutants.
3	Magnetic Separator Chute.	Negligible PM Emissions expected; only that from what might cling to metal as it is removed.
4	Cation Exchanger; Anion Exchanger.	Exempt. No regulated pollutants.
5	Amine Solution Mixer Tank.	Closed container. Item 27 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94. (Enclosure 2)
6	Air Compressors, compressed air system.	Exempt. No regulated pollutants. Item 39 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94.
7	Sandblaster with Filter.	Item 2 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94.
8	Office Copying/Supplies.	Item 14 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94.
9	Fuel Oil Truck Unloading Station. Fuel Oil transfer pump 1 FOA-P-1 rated 1,175 gpm.	PSD Permit Condition II.B.3 states, "VOC emissions from the maximum No.2 fuel oil utilization rate...are not expected to be significant." Less than 2,600,800 gallons per year of No. 2 Fuel Oil, per PSD FL 137A II.A.1.e, II.B.3, II.B.8
10	Fuel Oil Storage Tank - (1 FOA-TNK-1).	Fugitives from tank and transfer system. See Enclosure 3, TANKS 2 report, ID 1FOA-TNK-1.
11	Building Exhaust Fans.	Exempt. DARM-PER/V-15, dated Feb. 12, 1996. which buildings?
12	Acid Storage Tank.	Not an H2SO4 mist source. Tank vapor is released through displacement during tank loading.
13	Phosphate Solution Mixer Tank.	Closed container. Item 27 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94.
14	Chemical Waste Mixer Tank.	Closed container. Item 27 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94.
15	Solvent Storage.	Citrus based solvents in closed containers, such as drums or totes, that will not emit any VOC or HAP. Painting solvents are included in Maintenance Painting, Item 66. DARM-PER/V-15, dated Feb. 12, 1996
16	Plant Ground Maintenance.	Item 32 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94.
17	Maintenance (Cleaning, Welding, Non-Asbestos Removal).	Item 10 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision, Hopping, Boyd, Green and Sams, dated May 20, 1994.
18	Sodium Hypochlorite Storage Tank - (HRE-TNK-3). All other closed tanks for water/waste water treatment. Includes H2SO4, NH3, Caustic, Phosphate, Amine, Oxygen Scavenger, Magnesium Chloride.	Closed container. Item 27 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision, Hopping, Boyd, Green and Sams, dated May 20, 1994.
19	Fire Pump Diesel Engine.	Rule 62-210.300(3)(a)(20). 300(3)(a)(21)
20	Chemical Waste Sumps.	For spills only. For neutralization, refer to item 28 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94. For immediate transfer to waste containers, refer to item 38 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of

List of Insignificant/Exempt Activities		
No.	Source/Activity	Reason for Exemption/Insignificance
		Hopping, Boyd, Green and Sams, 5/20/94.
21	CEM Calibration Gases.	Item 15 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94.
22	Street Sweeping, outdoor vacuum truck cleanup.	Item 8 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94. Vacuum truck emissions are filtered.
23	Fuel Oil Heavy Equipment Diesel Tanks - (2) Tanks.	Fugitives from tank and transfer system. See Enclosure 3, TANKS 2 report, ID Diesel 2. Tank volumes less than 550 gal. Item 40 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94.
24	Sewer/Kitchen Vents.	Items 22 and 23 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94.
25	Diesel Fuel Pump.	Item 16 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94.
26	Diesel Fuel Pump Oil Tank (1 WSE-TNK-2), 320 Gallons.	Item 16 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94.
27	H2 Vent.	Exempt. Not a regulated pollutant.
28	DeNox Facility (NH3 addition).	Chemicals stored in closed container. Ammonia slip requirements included with boiler emissions calculated for each of the three boilers.
29	Transformer Maintenance.	Item 19 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94.
30	Steam Vents.	Exempt. Not a regulated pollutant.
31	Trace Heating.	Item 24 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94.
32	N2 cap during boiler shutdown.	Exempt. Item 20 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94.
33	Waste fiber loading hopper and conveyor system.	Wet material; no PM emissions expected.
34	Building Vents.	Item 17 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94.
35	Lab Hood, other laboratory activities.	Exempt by Rule 62-210.300(o).
36	Generator Venting (H2, CO2).	Exempt. Item 21 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94.
37	Soot Blowing.	Steam vents only. Soot is blown through flue, and is therefore regulated by boiler requirements.
38	Feed Water Heater Vents.	Exempt, steam only.
39	Turbine Lube Oil Vent with Oil Mist Eliminator (1TGO-SEP-1).	Item 31 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94.
40	RO - High Temp AntiFoam Addition to Brine Concentrator (BC).	Exempt; no regulated pollutants.
41	RO - Degasifier Packed Column (Sulfur odor, H2S emissions).	Item 18 from Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94.; less than 0.2 tpy. Calc: (0.2 ppm H2S)(400 gpm)(8.3 lb/gal)(60 min/hr)(8760 hr/yr) = 0.1745 tpy.

42	Coal Pile Run-off Pond.	Item 5 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94.
43	Tower Loop - Soda Ash Storage Silo.	Particulate less than 0.001 tpy. See attached calculations.
44	Tower Loop - Lime Storage Silo.	Particulate less than 0.001 tpy. See attached calculations.
45	Yard Area Runoff Pond (Unlined.)	Item 28 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94.
46	Tower Loop - Backwashable Filter.	Too wet for PM. Organics have been previously treated.
47	Tower Loop - Accelator.	VOCs, Chlorine are treated/removed prior to this activity.
48	Service Area Runoff Pond (Lined.)	Item 28 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94.
49	Tower Loop - Dual media filter (DMF).	Closed system.

50	RO - AntiScalant Tank Addition to BC.	Exempt. No regulated pollutants.
51	RO - High Temp AnitFoam Tank Additive to Crystallizer.	Exempt. No regulated pollutants.
52	SK - DensaDeg Mixer/Settler.	Organics, Chlorine treated or removed prior to this activity.
53	Coal transfer to coal receiving pile via lowering well (partial enclosure, lowering well is a "chute" with openings for distribution of coal).	PM emissions less than 0.25 tpy. See attached calculations for "CF4".
54	Wind erosion from coal receiving pile.	Item 6 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94. See attached calculations for "CF5". PM emissions less than 0.001 tpy.
55	Wind erosion from 27-day coal storage pile.	Item 6 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94. See attached calculations for "CF6". PM emissions less than 0.005 tpy.
56	Ash handling front end loader traffic.	PM emissions less than 0.05 tpy. See attached calculations for "AF7".
57	Wind erosion related to ash handling operations.	PM emissions less than 0.0001 tpy. See attached calculations for "AF-5b".
58	Bed ash transfer from boilers to wheelbarrows (bed ash rejects).	PM emissions less than 0.03 tpy. See attached calculations for "AF1".
59	Pellet screen cleanout.	PM emissions less than 0.03 tpy. See attached calculations for "AF2".
60	Ash pelletizing area cleanup (drops and transfer to temporary pile).	PM emissions less than 0.05 tpy. See attached calculations for "AF3".
61	Front end loader transfers to temporary pile.	PM emissions less than 0.2 tpy. See attached calculations for "AF5a".
62	Temporary rail car loading of pelletizer recycle material and other particulate debris.	PM emissions less than 0.1 tpy. See attached calculations for "AF6".
63	Recycle surge hopper baghouse exhausts within enclosure. ASF-FLT-3	PM emissions less than 0.01 tpy. See attached calculations for "AF11". This baghouse has been subject of permit modifications due to the enclosure and is being removed from existing permits. Emissions are considered "fugitive" because the exhaust is within an enclosure without a stack/vent direct to atmosphere.
64	Limestone pile wind erosion.	Item 6 in Crist Power Plant Site Visit, letter from DEP to Ms. Morrision of Hopping, Boyd, Green and Sams, 5/20/94. See attached calculations for "LF1". PM emissions less than 0.01 tpy.
65	Feeder vent filters on pulverizer system (6 vent filters) (1SGH-FLT-1A1; -1A2; -	PM emissions less than 0.015 tpy per filter. See attached calculations for "L1-L6".

	1B1; -1B2; -1C1; and -1C2).	
66	Maintenance Painting	DARM-PER/V-15, dated Feb. 12, 1996 and EPA White Paper dated July 10, 1995 lists as trivial activity: "Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification.[1] " Maintenance activities result in emissions that are below thresholds for exemption in Rule 62-213.420(6)(b).

[1] Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements.

Florida Department of
Environmental Protection

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Lawton Chiles
Governor

Virginia B. Wetherell
Secretary

May 20, 1994

Ms. Angela R. Morrison
Hopping, Boyd, Green & Sams
123 South Calhoun Street
Tallahassee, Florida 32314

Dear Ms. Morrison:

The enclosed revised Title V insignificant source summary is provided in response to your letter of April 29, 1994. Based on the additional information you provided in your letter regarding the quantity and types of non-halogenated solvents (item 13 on the insignificant source summary), the Department recommendation has been changed from "Not Exempt" to "Presumptive exemption, provided Rule 17-213.420(3)(c)3.b is complied with". Mineral spirits, for example, may contain air toxics such as benzene and xylenes in relatively small quantities.

Please advise if you have any questions or contact John Brown at (904) 488-1344.

Sincerely,

Howard L. Rhodes
Director
Division of Air Resources
Management

HLR/DO/bjb

Enclosure

cc: Ellen R. Bishop

Title V Insignificant Source Summary

Electric Power Plants

Site Visit: Crist Power Plant, Gulf Power Corporation

Date of Visit: November 23, 1993

DEP Personnel: Doug Outlaw

Group Representatives:

Dwain Waters
Senior Environmental Affairs Specialist
Gulf Power Corporation
(904) 444-6527

John Dominey
Senior Plant Environmental Specialist
Crist Power Plant
(904) 478-5900, Ext. 2219

Angela Morrison
Attorney
Hopping, Boyd, Green & Sams
(904) 222-7500

EMISSIONS UNIT	UNIT TYPE	DEPARTMENT RECOMMENDATIONS
1. All sources listed in 17-210.300(3)		Exempted by Rule 17-213.400 and 17-210.300(3).
2. Indoor sand blasting and abrasive grit blasting where temporary total enclosures are used to contain particulates	Shop sand blasting equipment with/filter; other totally enclosed areas	Presumptive exemption.
3. Fresh water/reuse water cooling towers	Cooling towers	Presumptive exemption.
4. Cooling ponds	Unlined ponds	Presumptive exemption.
5. Coal pile runoff ponds	Unlined ponds	Presumptive exemption.

Site Visit: Crist Power Plant (Cont'd)

EMISSIONS UNIT	UNIT TYPE	DEPARTMENT RECOMMENDATIONS
6. Open stockpiling of material.	Sand, grit, limestone, etc.	Presumptive exemption.
7. Unpaved road	Fugitive dust from vehicular traffic on unpaved roads	Fugitive dust, not exempt, subject to 17-296.310(3). Vehicles not covered under Title V and exempt under Rule 17-210.300(3)(e), F.A.C.
8. Plant grounds maintenance		Presumptive exemption.
9. Movable drop transfer point	Coal pile	Not exempt. Should be included in permit conditions for coal pile.
10. Routine maintenance/repair activities	Cleaning, Painting Welding, Coating, applications, Non-asbestos insulation removal Hand held tools/ equip., meter repair/ maintenance, on line/off-line cleaning of equip.	Presumptive exemption except for painting/coating applications. Surface coating facilities in ozone attainment areas are exempt if 6 gal/day or less are applied (17-210.300(3)(v)).
11. Main steam pressure/relief valves; steam from boiler operations	Valves	Steam exempt - not a pollutant.
12. Fugitive emissions from the loading or unloading of mobile sources, such as boats, tankers, trains, trucks	Material handling	Not exempt. Emissions can be estimated for these activities within the source boundary limits. Some are subject to unconfined emissions rule (Rule 296.310(3); others to RACT (Rule 17-296.711).
*13. Non-halogenated solvent cleaning operations	Maintenance/ repair	Presumptive exemption ~~if Rule 17-213.420(3)(c)3.b is complied with.~~
14. Indoor fugitives	Vacuum cleaning Solvent storage Office supplies/ equipment	Presumptive exemption. Presumptive exemption for closed containers. Presumptive exemption.

Site Visit: Crist Power Plant (Cont'd)

EMISSIONS UNIT	UNIT TYPE	DEPARTMENT RECOMMENDATIONS
15. Testing equipment	CEMs, stack sampling calibration gases, oxygen detector	Presumptive exemption.
16. Internal combustion engines which drive compressors, generators, water pumps, or other auxiliary equipment	Natural gas, propane, gasoline, or diesel fuel combustion products	Exempt by Rule 17-210.300(3)(t) if diesel and operated less than 400 hrs/yr, otherwise presumptively exempt at time of application.
17. HVAC (heating, ventilation, and air conditioning systems)	Cooling/heating	Exempt by rule 17-213.400 and 17-210.300(3).
18. Vent/exhaust systems for:		
Print room storage cabinets		Presumptive exemption.
Transformer vaults/ bldg.		Presumptive exemption.
Maint./welding bldgs.		Presumptive exemption.
Operating equipment vents		Presumptive exemption.
Degasifier/dearators/ decarbonators		Presumptive exemption.
Air blowers/ evacuators/air locks	Steam/condensate	Presumptive exemption.
Feedwater heater vents		Presumptive exemption.
19. Transformers, switches, and switchgear processing (including cleaning and changing) and venting.	Maintenance activities	Presumptive exemption.
20. Use of nitrogen cap during boiler shut-down	Nitrogen	Exempt, not a criteria or regulated substance.

Site Visit: Crist Power Plant (Cont'd)

EMISSIONS UNIT	UNIT TYPE	DEPARTMENT RECOMMENDATIONS
21. Generator venting	Hydrogen, then CO2, then air	Exempt, if only H2, CO2 and air - non-regulated substances.
22. Vent/exhaust from kitchen		Exempt.
23. Vents/stacks for sewer lines or enclosed areas req. for safety or by code	Sewerage gases Office ventilation	Exempt.
24. Electrically heated equipment used for heat treating, tracing, drying, soaking, case hardening or surface conditioning	Electric heaters, heat tape or devices that use electricity as the heat source	Exempt.
25. Sewage treatment fac./equip. ranging in size from Porta-John to sewage treatment plants	Sewage gases plus treatment emissions	Presumptive exemption.
26. Steam releases	Steam	Exempt, not a pollutant.
27. Storage and use of chemicals solely for water/waste water treatment	Cl, H2SO4, anhydrous ammonia plus others	Storage in closed containers is exempt, but may be subject to accidental release plan under Section 112r, CAA. Use of such chemicals for water treatment is presumptively exempt.
28. Neutralization basins/ponds, ash pits/ponds, TETF/ENU, percolation		Presumptive exemption.
29. Transfer sumps	Structure used to retain industrial wastewater	Presumptive exemption.
30. Firefighting training facilities		Presumptive exemption, if Rule 17-256.700(5), F.A.C. is complied with and Title V permit requires same.
31. Turbine vapor extractor	Lube oil spray	Presumptive exemption.

Site Visit: Crist Power Plant (Cont'd)

EMISSIONS UNIT	UNIT TYPE	DEPARTMENT RECOMMENDATIONS
32. Lawn maintenance equipment/activities	Engine emissions, fertilizers	Presumptive exemption.
33. Application of fungicide, herbicide, pesticide.		Presumptive exemption.
34. Air compressors and centrifuges used for compressing air		Presumptive exemption.
35. Handling and removal of clinkers, slag and bottom ash.	Off-line maintenance to remove material from boiler	Presumptive exemption.
36. Recovered materials recycling systems incl: bulb crushers, solvent stills, aerosol can puncturing		Exempt.
37. Contraband drug disposal for law enforcement agencies	In boilers	Exempt.
38. Waste accumulation/ consolidation	Accumulation and consolidation in 55 gal. drums that are otherwise closed	Presumptive exemption.
39. Compressed air system		Presumptive exemption.
40. Storage tanks less than 550 gal	300 gal used oil tanks	Presumptive exemption, if closed.
41. Storage of products in sealed containers.		Presumptive exemption.
42. Nuclear guages used for the purpose of process monitoring		Presumptive exemption.

EMISSIONS UNIT	UNIT TYPE	DEPARTMENT RECOMMENDATIONS
43. Flue gas desulfurization system absorber feed tank mist eliminator/spray header vent.		Presumptive exemption.
44. Renovation/ demolition of asbestos.		Exempt from Title V permit; Permit must state that 40 CFR Part 61, Subpart M applies under Rule 17-296.810, F.A.C.

*The non-halogenated solvents are deemed presumptively exempt for the following substances if they are utilized in quantities not more than 300 gallons of mineral spirits and 115 gallons of the other solvents in a twelve-month period.

Non-Halogenated Solvents	Manufacturer's Product Type ~~or Equivalent~~
Mineral Spirits	Regular Mineral Spirits Unocal Chemicals Division Schaumburg, IL
Grease Strippers	Grease Strip - GC 1003330 Gold Coast Chemical Corporation, Hollywood, FL
Dispersive Cleaners	NSC 375PL Dispersive Cleaners Newton Supply Company Miami, FL
Electron Aerosols	ELECTRON Aerosol Part #0632 or Part #0296 Sentry Chemical Company, Stone Mountain, GA
Sodium Silicate	Sodium Silicate, B&B REB-2 B&B Tritech, Inc. Hialeah, FL
Petorleum Solvents	Low Odor Paraffin Solvent, 131608 - 00608 Exxon Company Houston, TX
Industrial Cleaners	Blue Gold Industrial Cleaners Carroll Company Garland, TX

TANKS PROGRAM 2.0
EMISSIONS REPORT - SUMMARY FORMAT
TANK IDENTIFICATION AND PHYSICAL CHARACTERISTICS

Identification

Identification No.:	1FOA-TNK-1
City:	Cedar Bay
State:	FL
Company:	Cedar Bay Cogeneration, Inc.
Type of Tank:	Vertical Fixed Roof

Tank Dimensions

Shell Height (ft):	19
Diameter (ft):	24
Liquid Height (ft):	18
Avg. Liquid Height (ft):	10
Volume (gallons):	60920
Turnovers:	43
Net Throughput (gal/yr):	2601284

Paint Characteristics

Shell Color/Shade:	White/White
Shell Condition:	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft):	3.00
Radius (ft) (Dome Roof):	0.00
Slope (ft/ft) (Cone Roof):	0.2500

Breather Vent Settings

Vacuum Setting (psig):	-0.15
Pressure Setting (psig):	0.15

Meteorological Data Used in Emission Calculations: Jacksonville, Florida

Mixture/Component	Month	Daily Liquid Surf. Temperatures (deg F) Avg.	Min.	Max.	Liquid Bulk Temp. (deg F)	Vapor Pressures (psia) Avg.	Min.	Max.	Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
Distillate fuel oil no. 2	All	69.94	64.36	75.52	68.02	0.0089	0.0075	0.0107	130.000			130.00	Option 4: A=12.1010, B=8907.0

ınual Emissions Report

iquid Contents	Losses (lbs.): Standing	Withdrawal	Total
istillate fuel oil no. 2	7.37	62.58	69.96
ɔtal:	7.37	62.58	69.96

TANK IDENTIFICATION AND PHYSICAL CHARACTERISTICS

Identification

Identification No.:	Diesel 2
City:	Jacksonville
State:	FL
Company:	Cedar Bay Cogeneration, Inc.
Type of Tank:	Horizontal Fixed Roof

Tank Dimensions

Shell Length (ft):	7
Diameter (ft):	4
Volume(gallons):	400
Is tank underground? (Y/N):	N
Turnovers:	45
Net Throughput (gal/yr):	18000

Paint Characteristics

Shell Color/Shade:	Gray/Light
Shell Condition:	Good

Breather Vent Settings

Vacuum Setting (psig):	-0.15
Pressure Setting (psig):	0.15

Meteorological Data Used in Emission Calculations: Jacksonville, Florida

Mixture/Component	Month	Daily Liquid Surf. Temperatures (deg F) Avg.	Min.	Max.	Liquid Bulk Temp. (deg F)	Vapor Pressures (psia) Avg.	Min.	Max.	Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
Distillate fuel oil no. 2	All	75.39	66.08	84.70	70.24	0.0106	0.0079	0.0141	130.000			130.00	Option 4: A=12.1010, B=8907.0

Annual Emissions Report

Liquid Contents	Losses (lbs.): Standing	Withdrawal	Total
Distillate fuel oil no. 2	0.24	0.49	0.74
Total:	0.24	0.49	0.74

#43 - SODA ASH STORAGE SILO
#44 - LIME STORAGE SILO

CEDAR BAY -ZERO DISCHARGE

3. Computation of Fugitive Emissions Resulting from Unloading Lime and Soda Ash

---

Data: (From Cedar Bay operations)

Mass of Lime Unloaded per Batch = 1400 cubic feet
Frequency of Batches = 1.5/week
Mass of Soda Ash Unloaded per Batch = 1000 cubic feet
Frequency of Batches = 1/week
Time required to unload one batch = 0.75 hr
Bulk Density of Lime = 37 lb/cu ft
Bulk Density of Soda Ash = 76 lb/cu ft
Air flow rate = 750 cfm

$gr := \frac{lb}{7000}$ $tpy := \frac{ton}{yr}$ $cfm := \frac{ft^3}{min}$ $scf := ft^3$

Lime Loading Emissions:

$$PM := 0.003 \cdot \frac{gr}{scf} \cdot 750 \cdot cfm \cdot \frac{lb}{7000 \cdot gr} \cdot 60 \cdot \frac{min}{hr} \cdot 0.75 \cdot 1.5 \cdot \frac{hr}{week} \cdot 52 \cdot \frac{week}{yr} \cdot \frac{ton}{2000 \cdot lb}$$

$PM = 0.00056 \cdot tpy$

Soda Ash, Emission Point Z2, Controlled Emission Rate

$$PM := 0.003 \cdot \frac{gr}{scf} \cdot 750 \cdot cfm \cdot \frac{lb}{7000 \cdot gr} \cdot 60 \cdot \frac{min}{hr} \cdot 0.75 \cdot \frac{hr}{week} \cdot 52 \cdot \frac{week}{yr} \cdot \frac{ton}{2000 \cdot lb}$$

$PM = 0.00038 \cdot tpy$

#53 - COAL TRANSFER TO COAL RECEIVING PILE VIA LOWERING WELL

U.S. GENERATING - CEDAR BAY - Coal Title V

CF4: TRANSFER TO RECEIVING PILE VIA LOWERING WELL, partial enclosure
Ref: AP-42, 4th ed., 11.2.3

k30 := 0.74 Particles < 30 μm k10 := 0.35 Particles < 10 μm
U := 7.8 Mean wind speed, 7.8 mph
M := 6 Moisture, %, conservative value
Eff := 50·% Control Efficiency due to partial enclosure offered by lowering well

$QA = 1030570 \cdot tpy$ $QH = 2000 \cdot tph$ $QD = 4800 \cdot \frac{ton}{day}$

$EF30 := k30 \cdot (0.0032) \cdot \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} \cdot \frac{lb}{ton}$ $EF30 = 0.00091 \cdot \frac{lb}{ton}$ TSP emission factor

$EF10 := EF30 \cdot \frac{k10}{k30}$ $EF10 = 0.00043 \cdot \frac{lb}{ton}$ PM10 emission factor

TSP	PM10
$QA \cdot EF30 \cdot (1 - Eff) = 0.23361 \cdot tpy$	$QA \cdot EF10 \cdot (1 - Eff) = 0.11049 \cdot tpy$
$QH \cdot EF30 \cdot (1 - Eff) = 0.90672 \cdot \frac{lb}{hr}$	$QH \cdot EF10 \cdot (1 - Eff) = 0.42885 \cdot \frac{lb}{hr}$
$QD \cdot EF30 \cdot (1 - Eff) = 2.17613 \cdot \frac{lb}{day}$	$QD \cdot EF10 \cdot (1 - Eff) = 1.02925 \cdot \frac{lb}{day}$

#54: WIND EROSION FROM COAL RECEIVING PILE

U.S. GENERATING - CEDAR BAY - Coal Title V

CF5: WIND EROSION FROM RECEIVING PILE

Surface := 2287·m² Assumes same surface area as for Cedar Bay Cogeneration Project Air Quality Analysis, February 1993

From AP-42, Table 11.2.7-3, Dated 9/90:

Us:Ur Ratio	% of Total Area	Area (m^2)
0.2	40	40·%·Surface = 914.8·m²
0.6	48	48·%·Surface = 1097.76·m²
0.9	12	12·%·Surface = 274.44·m²

Surface := 12·%·Surface Surface = 274.44·m²

Determination of Pi

$Pi := 3.835 \cdot \frac{gm}{m^2}$ (for Coal Pile, Ref. Cedar Bay Cogeneration Project Air Quality Analysis, February 1993)

TSP Emissions

TSP := Pi·(Surface) TSP = 1052.4774·gm

Assuming pile disturbed daily with equal erosion potential each day:

$E := 1.0 \cdot \frac{1}{yr} \cdot \sum_{i=1}^{365} TSP$ $E = 0.09662 \cdot \frac{lb}{hr}$

$\frac{18 \cdot hr}{yr} \cdot E = 0.0008696 \cdot tpy$ $\frac{3 \cdot hr}{day} \cdot \frac{day}{24 \cdot hr} \cdot E = 0.0121 \cdot \frac{lb}{hr}$

#55- WIND EROSION FROM 27-DAY COAL STORAGE PILE

U.S. GENERATING - CEDAR BAY - Coal Title V

CF6: WIND EROSION FROM 27-DAY STORAGE PILE

Surface := 10086·m² Assumes same surface area as Cedar Bay Cogeneration Project Air Quality Analysis, February 1993

From AP-42, Table 11.2.7-3, Dated 9/90:

Us:Ur Ratio	% of Total Area	Area (m^2)
0.2	36	36·%·Surface = 3630.96·m²
0.6	50	50·%·Surface = 5043·m²
0.9	14	14·%·Surface = 1412.04·m²

Surface := 14·%·Surface Surface = 1412.04·m²

Determination of Pi

$Pi := 3.835 \cdot \frac{gm}{m^2}$ (for Coal Pile, Ref. Cedar Bay Cogeneration Project Air Quality Analysis, February 1993)

TSP Emissions

TSP := Pi·(Surface) TSP = 5415.1734·gm

Assuming pile disturbed daily with equal erosion potential each day:

$E := 1.0 \cdot \frac{1}{yr} \cdot \sum_{i=1}^{365} TSP$ $E = 0.49711 \cdot \frac{lb}{hr}$

$\frac{18 \cdot hr}{yr} \cdot E = 0.004474 \cdot tpy$ $\frac{3 \cdot hr}{day} \cdot \frac{day}{24 \cdot hr} \cdot E = 0.0621 \cdot \frac{lb}{hr}$

#56 - ASH HANDLING FRONT END LOADER TRAFFIC

U.S. GENERATING - CEDAR BAY - Scenario 1 Ash Fugitives

AF7 Front End loader Traffic

$Bucket := 4.5 \cdot yd^3$ $Bucket := Bucket \cdot 72 \cdot \frac{lb}{ft^3}$ $Bucket = 4.374 \cdot ton$

$VMT1 := 20 \cdot ft \cdot 4480 \cdot tpy \cdot \frac{2}{Bucket}$ Pile to Feed Hopper, round trip

$VMT1 = 7.7593 \cdot \frac{mi}{yr}$

$VMT2 := 200 \cdot ft \cdot 5200 \cdot tpy \cdot \frac{2}{Bucket}$ Pile to Temporary Rail Loading, round trip

$VMT2 = 90.0639 \cdot \frac{mi}{yr}$

$VMT3 := 50 \cdot ft \cdot 4480 \cdot tpy \cdot \frac{2}{Bucket}$ Discharge Chute to Pile, round trip

$VMT3 = 19.3984 \cdot \frac{mi}{yr}$

$k := 1$ particle size multiplier, TSP, Stokes diameter. (Alternative 0.80, this is more conservative). Use 0.36 for PM10 (AP-42 4th ed. and 5th ed.)

$s := 5$ silt content, conversative estimate, since we have combination of fly ash, bed ash, pellet recycle, broken pellets, and native soil..

$S := 1.5$ mean vehicle speed, mph for 20 ft; 5 mph for 200 ft; 3 mph for 50 ft.

$W := 30$ mean vehicle weight, ton

$w := 4$ mean number of wheels

$p := 115$ mean number days > 0.01 in. precipitation

$Eff := 70 \cdot \% \cdot 50 \cdot \%$ Control by wetting (70%) applied about 50% of time

The following equations are given a "B" rating, since AP-42 assigns a "B" rating for p > 0.

For TSP where E1, E2, E3 and E4 are emission rate per vehicle mile traveled,

$E1 := 5.9 \cdot k \cdot \frac{s}{12} \cdot \frac{S}{30} \cdot \frac{W}{3}^{0.7} \cdot \frac{w}{4}^{0.5} \cdot \frac{365 - p}{365} \cdot \frac{lb}{mi}$ $E1 = 0.4219 \cdot \frac{lb}{mi}$ for 1.5 mph

$E2 := E1 \cdot \frac{5}{1.5}$ $E2 = 1.4065 \cdot \frac{lb}{mi}$ Adjust for 5 mph vs 1.5 mph

$E3 := E1 \cdot \frac{3}{1.5}$ $E3 = 0.8439 \cdot \frac{lb}{mi}$ Adjust for 3 mph vs 1.5 mph

$TSP := (1 - Eff) \cdot (VMT1 \cdot E1 + VMT2 \cdot E2 + VMT3 \cdot E3)$

$TSP = 0.0476 \cdot tpy$ $5 \cdot mph \cdot E2 = 7.0325 \cdot \frac{lb}{hr}$ Assumes most miles traveled in one hour is 5

For PM10, k=0.36, thus

$PM10 := TSP \cdot \frac{0.36}{k}$ $PM10 = 0.0171 \cdot tpy$ $5 \cdot mph \cdot E2 \cdot \frac{0.36}{k} = 2.5317 \cdot \frac{lb}{hr}$

#57 - WIND EROSION RELATED TO ASH HANDLING OPERATIONS

U.S. GENERATING - CEDAR BAY - Scenario 1 Ash Fugitives

Wind Erosion - Ash Handling Operations

Bed Ash and Yard Cleanup Storage Pile (AF-5b)

Surface Area

Assume: Volume Total contribution is one week of bed ash plus one week of yard cleanup

$Mass := 100 \cdot ton$ $Vtotal := \frac{Mass}{70 \cdot \frac{lb}{ft^3}}$ $Vtotal = 2857.1429 \cdot ft^3$

Base diameter to height ratio (Conical shape) $Hratio := 3$

$r := \left[\frac{9}{(2 \cdot \pi)} \cdot Vtotal\right]^{\frac{1}{3}}$ $r = 15.9955 \cdot ft$ $Dia := 2 \cdot r$ $Height := \frac{Dia}{Hratio}$ $h := \frac{Dia}{Hratio}$

$Surface := \pi \cdot r \cdot \sqrt{r^2 + h^2}$ $Surface = 966.0435 \cdot ft^2$

$Surface = 89.7484 \cdot m^2$

From AP-42, Table 11.2.7-3, Dated 9/90:

Us:Ur Ratio	% of Total Area	Area (m^2)
0.2	40	$40 \cdot \% \cdot Surface = 35.8994 \cdot m^2$
0.6	48	$48 \cdot \% \cdot Surface = 43.0792 \cdot m^2$
0.9	12	$12 \cdot \% \cdot Surface = 10.7698 \cdot m^2$
	$Surface := 12 \cdot \% \cdot Surface$	$Surface = 10.7698 \cdot m^2$

Determination of Pi

$Pi := 3.835 \cdot \frac{gm}{m^2}$ (for Coal Pile, Refer to 1993 Report)

Ratio of Ash to Coal Silt Contents $Aratio := \frac{5}{2.2}$ $Aratio = 2.2727$

Therefore: $Pi := Pi \cdot Aratio$ $Pi = 8.7159 \cdot \frac{gm}{m^2}$

TSP Emissions

$TSP := Pi \cdot (Surface)$ $TSP = 93.8686 \cdot gm$

Assuming pile disturbed daily with equal erosion potential each day:

$E := 1.0 \cdot \frac{1}{yr} \cdot \sum_{i=1}^{365} TSP$ $E = 0.0086 \cdot \frac{lb}{hr}$

$\frac{18 \cdot hr}{yr} \cdot E = 0.0000776 \cdot tpy$ $\frac{3 \cdot hr}{day} \cdot \frac{day}{24 \cdot hr} \cdot E = 0.0011 \cdot \frac{lb}{hr}$

EMISSIONS CALCULATIONS, potentials $EF30 = 0.0294 \cdot \frac{lb}{ton}$ $EF10 = 0.0139 \cdot \frac{lb}{ton}$

AF1 TSP

$MaxHourly := EF30 \cdot 0.2481 \cdot tph$ $MaxHourly = 0.0073 \cdot \frac{lb}{hr}$

#58

$MaxDaily := MaxHourly \cdot \frac{24 \cdot hr}{day}$ $MaxDaily = 0.1751 \cdot \frac{lb}{day}$

$Annual := EF30 \cdot 2021 \cdot tpy$ $Annual = 0.0297 \cdot tpy$

PM10

$MaxHourly := EF10 \cdot 0.2481 \cdot tph$ $MaxHourly = 0.0034 \cdot \frac{lb}{hr}$

$MaxDaily := MaxHourly \cdot \frac{24 \cdot hr}{day}$ $MaxDaily = 0.0828 \cdot \frac{lb}{day}$

$Annual := EF10 \cdot 2021 \cdot tpy$ $Annual = 0.0141 \cdot tpy$

AF2 TSP

$MaxHourly := EF30P \cdot 224 \cdot tph$ $MaxHourly = 2.4954 \cdot \frac{lb}{hr}$

#59

$MaxDaily := EF30P \cdot 1120 \cdot \frac{ton}{day}$ $MaxDaily = 12.4768 \cdot \frac{lb}{day}$ 1120 ton is capacity of one silo.

$Annual := EF30P \cdot 4480 \cdot tpy$ $Annual = 0.025 \cdot tpy$

PM10

$MaxHourly := EF10P \cdot 224 \cdot tph$ $MaxHourly = 1.1802 \cdot \frac{lb}{hr}$

$MaxDaily := EF10P \cdot 1120 \cdot \frac{ton}{day}$ $MaxDaily = 5.9012 \cdot \frac{lb}{day}$

$Annual := EF10P \cdot 4480 \cdot tpy$ $Annual = 0.0118 \cdot tpy$

AF3

TSP

MaxHourly := EF30·5·tph

$$MaxHourly = 0.147 \cdot \frac{lb}{hr}$$

MaxDaily := EF30·100·$\frac{ton}{5 \cdot day}$

$$MaxDaily = 0.588 \cdot \frac{lb}{day}$$

#60

Annual := EF30·3340·tpy

$$Annual = 0.0491 \cdot tpy$$

PM10

MaxHourly := EF10·5·tph

$$MaxHourly = 0.0695 \cdot \frac{lb}{hr}$$

MaxDaily := EF10·100·$\frac{ton}{5 \cdot day}$

$$MaxDaily = 0.2781 \cdot \frac{lb}{day}$$

Annual := EF10·3340·tpy

$$Annual = 0.0232 \cdot tpy$$

#61

AF5a TSP

MaxHourly := EF30·60·tph

$$\text{MaxHourly} = 1.7639 \cdot \frac{\text{lb}}{\text{hr}}$$

MaxDaily := $1120 \cdot \frac{\text{ton}}{\text{day}} \cdot \text{EF30P} + 100 \cdot \frac{\text{ton}}{5 \cdot \text{day}} \cdot \text{EF30}$

$$\text{MaxDaily} = 13.0648 \cdot \frac{\text{lb}}{\text{day}}$$

Annual := EF30P·4480·tpy + EF30·5200·tpy

$$\text{Annual} = 0.1014 \cdot \text{tpy}$$

PM10

MaxHourly := EF10·60·tph

$$\text{MaxHourly} = 0.8343 \cdot \frac{\text{lb}}{\text{hr}}$$

MaxDaily := $1120 \cdot \frac{\text{ton}}{\text{day}} \cdot \text{EF10P} + 100 \cdot \frac{\text{ton}}{5 \cdot \text{day}} \cdot \text{EF10}$

$$\text{MaxDaily} = 6.1793 \cdot \frac{\text{lb}}{\text{day}}$$

Annual := EF10P·4480·tpy + EF10·5200·tpy

$$\text{Annual} = 0.048 \cdot \text{tpy}$$

62

AF6 TSP

MaxHourly := EF30·60·tph MaxHourly = 1.7639 · $\frac{lb}{hr}$

MaxDaily := 100·$\frac{ton}{5 \cdot day}$·EF30 MaxDaily = 0.588 · $\frac{lb}{day}$

Annual := EF30·(5200)·tpy Annual = 0.0764 · tpy

PM10

MaxHourly := EF10·60·tph MaxHourly = 0.8343 · $\frac{lb}{hr}$

MaxDaily := 100·$\frac{ton}{5 \cdot day}$·EF10 MaxDaily = 0.2781 · $\frac{lb}{day}$

Annual := EF10·(5200)·tpy Annual = 0.0362 · tpy

AF7: See above

#63

U.S. GENERATING - CEDAR BAY - Scenario 1 Ash Fugitives

AF11 (Formerly A9): RECYCLE SURGE HOPPER BAGHOUSE, ASF-FLT-3

$acf := ft^3$ $dscf := ft^3$ $acfm := \frac{acf}{min}$ $dscfm := \frac{dscf}{min}$ $gr := \frac{lb}{7000}$ $StdTemp := (460 + 68)\cdot R$

Parameters:		References:
Flow Rate	$ACFM := 754\cdot acfm$	3-run test on 3-10-94 greater than BHA design Air Flow of 500 acfm
Moisture%	$Moist := 3.42\cdot\%$	3-run test on 3-10-94
Exit Temperature	$T := (460 + 89)\cdot R$	3-run test on 3-10-94
Emission Rate	$ER := 0.003\cdot\frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR := 2920\cdot\frac{hr}{yr}$	

Potential Emissions:

$SCFM := \frac{ACFM\cdot(1 - Moist)\cdot StdTemp}{T}$ $SCFM = 700.358\cdot dscfm$

$Eff := 70\cdot\%$ Control Efficiency for enclosure

$E := SCFM\cdot ER\cdot(1 - Eff)$ $E = 0.0054\cdot\frac{lb}{hr}$ $OPHR\cdot E = 0.0079\cdot tpy$

#64

U.S. GENERATING - CEDAR BAY - Title V Limestone (Aragonite)

Title V Cedar Bay Limestone Handling Particulates (PM)

Estimated Potential Emissions. *Limestone refers to limestone, aragonite, or other calcium source material.*

$tpy := \frac{ton}{yr}$ $tph := \frac{ton}{hr}$ $week := 5 \cdot day$ $month := \frac{yr}{12}$

$gr := \frac{lb}{7000}$ $acf := ft^3$ $dscf := ft^3$ $acfm := \frac{acf}{min}$ $dscfm := \frac{dscf}{min}$ $StdTemp := (460 + 68) \cdot R$

LF1: LIMESTONE PILE WIND EROSION

$Surface := 1793 \cdot m^2$ Assumes same pile surface area as 1993 AQA, therefore conservative

From AP-42, Table 11.2.7-3, Dated 9/90:

Us:Ur Ratio	% of Total Area	Area (m^2)
0.2	36	$36 \cdot \%\cdot Surface = 645.48 \cdot m^2$
0.6	50	$50 \cdot \%\cdot Surface = 896.5 \cdot m^2$
0.9	14	$14 \cdot \%\cdot Surface = 251.02 \cdot m^2$

$Surface := 14 \cdot \%\cdot Surface$ $Surface = 251.02 \cdot m^2$

Determination of Pi

$Pi := 3.835 \cdot \frac{gm}{m^2}$ (for Coal Pile, Ref. Cedar Bay Cogeneration Project Air Quality Analysis, February 1993

$SiltRatio := \frac{1.6}{2.2}$ $SiltRatio = 0.72727$ Ratio limestone to coal

$Pi := Pi \cdot SiltRatio$ $Pi = 2.78909 \cdot \frac{gm}{m^2}$

TSP Emissions

$TSP := Pi \cdot (Surface)$ $TSP = 700.12 \cdot gm$

Assuming pile disturbed daily with equal erosion potential each day:

$$E := 1.0 \cdot \frac{1}{yr} \cdot \sum_{i=1}^{365} TSP \qquad E = 0.06427 \cdot \frac{lb}{hr}$$

$$\frac{18 \cdot hr}{yr} \cdot E = 0.0005784 \cdot tpy \qquad \frac{3 \cdot hr}{day} \cdot \frac{day}{24 \cdot hr} \cdot E = 0.008034 \cdot \frac{lb}{hr}$$

For PM10, k=0.5, therefore

$$18 \cdot \frac{hr}{yr} \cdot E \cdot \frac{0.5}{1} = 0.000289 \cdot tpy \qquad \frac{3 \cdot hr}{day} \cdot \frac{day}{24 \cdot hr} \cdot E \cdot \frac{0.5}{1} = 0.004017 \cdot \frac{lb}{hr}$$

#65

U.S. GENERATING - CEDAR BAY - Title V Limestone (Aragonite)

L1-L6: FEEDER VENT FILTERS ON PULVERIZER SYSTEM (6 VENT FILTERS)
(1SGH-FLT-1A1; -1A2; -1B1; -1B2; -1C1; and -1C2)

Parameters:		References:
Flow Rate	ACFM := 365·acfm	BHA design Flow Rate (tested 123 acfm highest)
Moisture%	Moist := 1.17·%	Tested 1.17% lowest Interpoll March 1994
Exit Temperature	T := (460 + 85)·R	
Emission Rate	$ER := 0.003 \cdot \frac{gr}{dscf}$	Permit Condition
Allowable Hours	$OPHR := 2920 \cdot \frac{hr}{yr}$	

Estimated Potential Emissions:

$SCFM := \frac{ACFM \cdot (1 - Moist) \cdot StdTemp}{T}$ $SCFM = 349.5 \cdot dscfm$

$E := SCFM \cdot ER$ $E = 0.00899 \cdot \frac{lb}{hr}$ $OPHR \cdot E = 0.01312 \cdot tpy$ EACH VENT FILTER

THROUGHPUT ASSUMPTIONS FOR #s 58, 59, 60, 62

Scenario 1 Cedar Bay Ash Handling Fugitive Particulates

Process Throughput Assumptions for Calculating Fugitive Particulate Emissions from Ash Handling System, Estimated Potentials for Scenario 1

$tpy := \frac{ton}{yr}$ $tph := \frac{ton}{hr}$ $week := 5 \cdot day$ $month := \frac{yr}{12}$ Assume front end loader can deliver 60 tph maximum.

#58 AF1 Transfer from overfill chutes from boiler beds to wheelbarrows

$wheelbarrow := 0.75 \cdot 40 \cdot gal \cdot 90 \cdot \frac{lb}{ft^3}$ $wheelbarrow = 360.9375 \cdot lb$

$\frac{11 \cdot wheelbarrow}{8 \cdot hr} = 0.2481 \cdot tph$ $0.2481 \cdot tph \cdot 8760 \cdot \frac{hr}{yr} \cdot 93 \cdot \% = 2021.2211 \cdot tpy$ Permit to operate at 93% of capacity

#59 AF2 Discharge chute from pellet screens:

Max hourly = 224 tons/hr

$Annual := \frac{1120 \cdot ton \cdot 4}{yr}$ $Annual = 4480 \cdot tpy$

#60 AF3 Pelletizing area cleanup (drops and transfer to Pile) (100 ton/week less wheelbarrow)

$Hourly := 100 \cdot \frac{ton}{week} \cdot \frac{week}{40 \cdot hr} - 0.248 \cdot tph$ $Hourly = 2.252 \cdot tph$

$Annual := 100 \cdot \frac{ton}{week} \cdot 52 \cdot \frac{week}{yr} - 2021 \cdot tpy$ $Annual = 3179 \cdot tpy$

Per Sheet1 from Cedar Bay, use 5 ton/hour for maximum hourly rate

AF4 Pellet Recharge Transfer to temporary silo loading belt, used to maintain a minimum level of pellets in silos, not applicable to this scenario.

AF5a PILE: Transfer via front end loader from wheelbarrows, pellet discharge & yard cleanup to Pile.

$Hourly := 60 \cdot tph$ Annual: AF-1 + AF-2 + AF-3 $(5200 + 4480) \cdot tpy = 9680 \cdot tpy$

Wind erosion (AF5b) follows material throughputs

AF6 Temporary Rail car loading

#62 $Hourly := 60 \cdot tph$

$Annual := 100 \cdot \frac{ton}{week} \cdot 52 \cdot \frac{week}{yr}$ $Annual = 5200 \cdot tpy$

BATCH OR CONTINUOUS DROP
EMISSION FACTORS FOR #58, 59, 60, 61, 62

Batch or Continuous Drop Emission factors

Particulate, AP-42 4th ed., Section 11.2.3

k30 := 0.74 Table 11.2.3-2 factor for TSP emissions (<30 μm)
k10 := 0.35 Table 11.2.3-2 factor for PM10 emissions (<10 μm)
U := 7.8 Avg. wind speed, mph
m_ash := 0.5 Ash Moisture content, % (conservative)

AP-42 assigns "A" rating.

EF30 = Emission Factor for TSP
EF10 = Emission Factor for PM10

$$EF30 := k30 \cdot 0.0032 \cdot \left[\frac{\frac{U}{5}^{1.3}}{\frac{m\_ash}{2}^{1.4}} \right] \cdot \frac{lb}{ton} \qquad EF30 = 0.0294 \cdot \frac{lb}{ton}$$

Use for ash and pellet recycle:

$$EF10 := k10 \cdot 0.0032 \cdot \left[\frac{\frac{U}{5}^{1.3}}{\frac{m\_ash}{2}^{1.4}} \right] \cdot \frac{lb}{ton} \qquad EF10 = 0.0139 \cdot \frac{lb}{ton}$$

Use for ash and pellet recycle:

For Pellets, m_pellet := 1 % moisture content

$$EF30P := k30 \cdot 0.0032 \cdot \left[\frac{\frac{U}{5}^{1.3}}{\frac{m\_pellet}{2}^{1.4}} \right] \cdot \frac{lb}{ton} \qquad EF30P = 0.01114 \cdot \frac{lb}{ton}$$

$$EF10P := k10 \cdot 0.0032 \cdot \left[\frac{\frac{U}{5}^{1.3}}{\frac{m\_pellet}{2}^{1.4}} \right] \cdot \frac{lb}{ton} \qquad EF10P = 0.00527 \cdot \frac{lb}{ton}$$

Emission Units:	All
Applicable Requirements	In Compliance

The Applicable Requirements of air permits and air rules have been extensively reviewed. It has been determined that Cedar Bay Generating Co. is complying with all applicable requirements of PSD - FL - 137 (all modifications) and applicable requirements of U.S. EPA regulations (including the Title V Core List effective 3/25/96).

Compliance Schedule

None required.

The applicable requirements for Cedar Bay Generating Co. follow.

DOCUMENT CB01

COMPLIANCE REPORT

APPLICABLE REQUIREMENTS

FROM PERMIT PSD FL 137A

This document was prepared April 10, 1995, based on PSD FL 137A, and is reprinted for inclusion in the Title V Application for Cedar Bay Cogeneration Plant for reference. The permit has two undergone revisions since then, and the Florida regulatory citations have been restructured.

Basis: PSD FL-137A. *Italics are sections from PA 88-24 or PA 88-24A which are not also addressed in PSD FL-137A.*

Facility					
Source	**Regulated Pollutant**	**Potentially Applicable Requirements**	**Description of Requirement**	**Contains Federally Enforceable Requirement ?**	**Comments**
Facility	No specific pollutant.	Condition I. 1.	The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727 or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.	N	Information.
Facility	No specific pollutant.	Condition I. 2.	This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation form the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.	N	Information.
Facility	No specific pollutant.	Condition I. 3.	As provided in Subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.	N	Information.
Facility	No specific pollutant.	Condition I. 4.	This permit conveys no title to land or water, does not constitute authority for the use of submerged lands unless herein provided an the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.	N	Information.

Facility					
Source	Regulated Pollutant	Potentially Applicable Requirements	Description of Requirement	Contains Federally Enforceable Requirement ?	Comments
Facility	No specific pollutant.	Condition I. 5.	This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of F.S. and Department rules, unless specifically authorized by an order from the Department.	N	Information.
Facility	No specific pollutant.	Condition I. 6.	The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.	Y	Standard Operating Procedure.
Facility	No specific pollutant.	Condition I. 7.	The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to: a: Have access to and copy any records that must be kept under the conditions of the permit; b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and, c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules. Reasonable time may depend on the nature of the concern being investigated.	Y	Standard Policy.

Facility					
Source	**Regulated Pollutant**	**Potentially Applicable Requirements**	**Description of Requirement**	**Contains Federally Enforceable Requirement ?**	**Comments**
Facility	No specific pollutant.	Condition I. 8.	If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information: a. A description of and cause of non-compliance; and, b. The period of noncompliance, including dates and times; or , if not corrected the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.	Y	Will notify immediately if in non-compliance.
Facility	No specific pollutant.	Condition I. 9.	In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the F.S. or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.	N	Information.
Facility	No specific pollutant.	Condition I. 10.	The permittee agrees to comply with changes in Department rules and F.S. after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by F.S. or Department rules.	N	Information.
Facility	No specific pollutant.	Condition I. 11.	This permit is transferable only upon Department approval in accordance with Rules 17-4.120 and 17-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.	N	Information.

Facility					
Source	**Regulated Pollutant**	**Potentially Applicable Requirements**	**Description of Requirement**	**Contains Federally Enforceable Requirement ?**	**Comments**
Facility	No specific pollutant.	Condition I. 12.	This permit or a copy thereof shall be kept at the work site of the permitted activity.	Y	Standard Operating Procedure
Facility	No specific pollutant.	Condition I. 13.	This permit also constitutes: (x) Determination of Best Available Control Technology (BACT) (x) Determination of Prevention of Significant Deterioration and Nonattainment Areas NSR (x) Compliance with New Source Performance Standards (NSPS; Subpart Da).	N	Information.
Facility	No specific pollutant.	Condition I. 14.	The permittee shall comply with the following: a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department. b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample., measurement , report, or application unless otherwise specified by Department rule. c. Records of monitoring information shall include: - The date, exact place, and time of sampling or measurements; - The person responsible for performing the sampling or measurements; - The dates analyses were performed; - The person responsible for performing the analyses; - The analytical techniques or methods used; and, - The results of such analyses.	Y	Records are kept at site.

Facility					
Source	Regulated Pollutant	Potentially Applicable Requirements	Description of Requirement	Contains Federally Enforceable Requirement ?	Comments
Facility	No specific pollutant.	Condition I. 15.	When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.	Y	Example - Coal Unloading changes referred to in letter from R. Pace to K. Oven, wherein the State expressed disagreement in matter that the change took place. Original permit described a scrubber where only wet suppression was put in place.
Facility	No specific pollutant.	Condition B 10	Compliance test reports shall be submitted to the RESD within 45 days of test completion in accordance with Rule 62-297.570, F.A.C.	Y	Will submit within time frame.
Facility	No specific pollutant.	Condition B 11	Any changes in the method of operation, raw materials processed, equipment, or operating hours or any other changes pursuant to Rule 62-212.200, F.A.C., defining modification, shall be submitted for approval to the Department's BAR	Y	Permit modifications recommended to change "limestone" to "aragonite" and address hours of limestone dryer operation.
Facility	No specific pollutant.	Condition C 10	All CBCP records of documentation shall be kept on file for a minimum of 3 years pursuant to Rule 62-4.160(14), F.A.C.	Y	Standard Operating Procedure.
Facility	No specific pollutant.	E. Modification of Specific Conditions	The Specific Conditions of this permit may be modified in the following manner:		
Facility	No specific pollutant.	Condition E 1	Through the May 11, 1993, Modification of Certification, the Board, which means the Governor and Cabinet, delegated to the Secretary of Department of Environmental Protection the authority to modify, after notice and opportunity for hearing, and conditions pertaining to consumptive use of water, reclaimed water, monitoring, sampling, ground water, surface water, mixing zones, or variances to water quality standards, zones of discharge, leachate control programs, effluent limitations, fuel, or solid waste disposal, right of entry, railroad spur transmission line, access road, pipelines, or designation of agents for the purpose of enforcing the conditions of this permit.	N	Administrative.

Facility					
Source	**Regulated Pollutant**	**Potentially Applicable Requirements**	**Description of Requirement**	**Contains Federally Enforceable Requirement ?**	**Comments**
Facility	No specific pollutant.	Condition E 2	All other modifications shall be made in accordance with Section 403.516, F.S.	Y	Modifications to ash handling system are anticipated, including pelletizer operations and possibly silo rail loadout..
Construction Requirements					
Facility	No specific pollutant.	Condition C 1	Beginning one month after certification, CBCP shall submit to the RESD and the Department's BAR, a quarterly status report briefly outlining progress made on engineering design and purchase of major equipment, including copies of technical data pertaining to the selected emission control devices. These data should include, but not limited to, guaranteed efficiency and emission rates, and major parameters such as air/cloth ratio and flow rate. The Department may, upon review of these data, disapprove the use of any such device. Such disapproval shall be issued within 30 days of receipt of technical data.	Y	Status reports were submitted.
Facility	No specific pollutant.	Condition C 2	CBCP shall report any delays in construction and completion of the project which would delay commercial operation by more than 90 days to the RESD office	Y	Delays were reported.
Facility	Particulate	Condition C 3	Reasonable precautions to prevent fugitive emissions during construction, such as coating of roads and construction sites used by contractors, regrassing or watering areas of disturbed soils, will be taken by CBCP.	Y	Precautions were taken.
Facility	No specific pollutant.	Condition C 8	CBCP shall provide stack sampling facilities as required by Rule 62-297.345, F.A.C.	Y	Yes.
Facility	No specific pollutant.	Condition C 9	Prior to commercial operation of each source, the permittee shall submit to the Department's BAR a standardized plan or procedure that will allow the permittee to monitor emission control equipment efficiency and enable the permittee to return malfunctioning equipment to proper operation as expeditiously as possible	Y	Plan exists for CFBs.

Boilers					
Source	**Regulated Pollutant**	**Potentially Applicable Requirements**	**Description of Requirement**	**Contains Federally Enforceable Requirement ?**	**Comments**
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	II. Specific Conditions	General: The construction and operation of Cedar Bay Cogeneration Project (CBCP) shall be in accordance with all applicable provisions of Chap. 62-210 through 62-297, F.A.C. In addition to the foregoing , CBCP shall comply with the following conditions as indicated, which reflect the Conditions of the Modification of Certification dated May 11, 1993.	Y	Informational.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	N/A	A. Emission Limitations for CBCP Boilers			
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	N/A	Condition A 1	Fluidized Bed Coal Fired Boilers		
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 1 (a)	Maximum coal charging rate of each CFB shall neither exceed 104,000 lbs/hr, 39,000 tons/month, nor 390,000 tons/yr. (Combined total of 312,000 lbs/hr, 117,000 tons/month, and 1,170,000 tons/yr for all three CFBs)	Y	Enviroplan CEMDAS Tracking System, Weigh Feeders.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 1 (b)	Maximum charging rate to each of two CFBs of short fiber recycle rejects from Seminole Kraft Corporation(SKC) recycling process shall not exceed 210 yd^3 /day wet and 69,588 yd^3 /yr wet. (Combined total of 420 yd^3 /day and 139,176 yd^3 /yr wet for the two CFBs that fire recycle rejects)	Y	Enviroplan CEMDAS Tracking System. SKC fiber rejects handling system is not being used.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 1 (b)	The third CFB will not utilize recycle rejects, nor will it be equipped with handling and firing for recycle rejects	Y	Boiler A is not equipped for SKC fiber reject.

Boilers					
Source	**Regulated Pollutant**	**Potentially Applicable Requirements**	**Description of Requirement**	**Contains Federally Enforceable Requirement ?**	**Comments**
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C"	No specific pollutant.	Condition A 1 (c)	Maximum heat input to each CFB shall not exceed 1063 MMBtu/hr. This reflects a combined total of 3189 MMBtu/hr for all three units	Y	Enviroplan CEMDAS Tracking System.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Sulfur dioxide	Condition A 1 (d)	Sulfur content of coal shall not exceed 1.2% by weight on annual basis. Sulfur content shall not exceed 1.7% by weight on a shipment (train load) basis	Y	Analyses.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Sulfur dioxide	Condition A 1 (e)	Auxiliary fuel burners - No. 2 fuel oil only with max. sulfur content 0.05% by weight. Fuel oil shall normally only be used for start ups	Y	Contract, Purchase Records, Standard Operating Procedure.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 1 (e)	Maximum annual oil usage shall not exceed 1,900,000 gal/yr	Y	Metering.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 1 (e)	Maximum heat input from fuel oil shall not exceed 380 MMBtu/hr for each of the CFBs	Y	Enviroplan CEMDAS Tracking System.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 1 (f)	CFBs shall be fueled only with fuels permitted in Conditions Nos. II.A.1a., 1.b. and 1.e. Other fuels and wastes shall not be burned w/o prior specific written approval	Y	Purchase records and contracts.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 1 (g)	CFBs may operate continuously (8760 hr/yr) but shall not exceed 25.98×10^6 MMBtu/yr total annual heat input	Y	Metering/Records.

Boilers					
Source	Regulated Pollutant	Potentially Applicable Requirements	Description of Requirement	Contains Federally Enforceable Requirement ?	Comments
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 1 (h)	To the extent that it is consistent with Specific Condition No. II.A.1.b and the following, CBCP shall burn all of the short fiber rejects generated by SKC in processing recycled paper.	Y	SKC fiber rejects handling system is not being used..
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	N/A	Condition A 2	The emissions from each CFB shall be controlled using the following systems:		
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Sulfur dioxide and acid gas	Condition A 2 (a)	Limestone injection and fuel sulfur limitations, for control of sulfur dioxide and acid gases	Y	In practice Standard Operating Procedures.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Particulate	Condition A 2 (b)	Baghouse, for control of particulate matter	Y	Standard Operating Procedures
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Mercury	Condition A 2 (c)	CBCP shall conduct a test to determine whether substantial additional removal of mercury can be obtained through a carbon injection system for mercury removal which feeds carbon reagent into the CFB exhaust stream prior to the baghouse, as described in Exhibit 74 of the administrative record for the Lee County Resource Recovery Facility	Y	CBCP proposed that mercury test be conducted in two phases. Phase 1 would involve conducting test without carbon injection. Phase 2 would utilize carbon injection. After completing Phase 1, CBCP concluded that baseline mercury emissions were minimal and it would not be necessary to retest with carbon injection. This conclusion and a request that Phase 2 testing not needed was submitted to the Department on November 22, 1994.

Boilers					
Source	Regulated Pollutant	Potentially Applicable Requirements	Description of Requirement	Contains Federally Enforceable Requirement ?	Comments
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Mercury	Condition A 2 (c)	Within 180 days after initial compliance testing, CBCP shall conduct a test on one CFB to compare mercury emissions to the atmosphere with and without carbon injections. The test program will include the testing of carbon injection between the boiler and the fabric filter. Carbon forms to be tested may include activated carbon with or w/o additives and pulverized coal with or w/o additives.	Y	CBCP proposed that mercury test be conducted in two phases. Phase 1 would involve conducting test without carbon injection. Phase 2 would utilize carbon injection. After completing Phase 1, CBCP concluded that baseline mercury emissions were minimal and it would not be necessary to retest with carbon injection. This conclusion and a request that Phase 2 testing not needed was submitted to the Department on November 22, 1994.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Mercury	Condition A 2 (c)	After consultation with the Department, RESD and EPRI, CBC shall submit a mercury control test protocol to the Department for approval by Dec. 1, 1993. Results of the test shall be submitted to the Department within 90 days of completion.	Y	Mercury test protocol submitted prior to December 1, 1993. Test results submitted on November 22, 1994..
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Mercury	*PA-88-24A Condition II.A. 8. c.*	*Compliance tests shall be performed for mercury (Hg), beryllium (Be), and lead (Pb) until three consecutive tests (including, if successful, the innitial compliance test) are within the annual emission limits specified in Condition II.A.3. above. Such tests shall occur, as necessary, in the first, fifth and tenth years and additional successive five year intervals following commercial operation of the Project.*	Y	Pending results of second and third tests.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Nitrogen oxides	Condition A 2 (d)	Selective Non-catalytic Reduction(SNCR), for control of NO_x.	Y	Installed ammonia injection; CEMDAS.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Carbon monoxide, VOC	Condition A 2 (e)	Good combustion characteristics, which are an inherent part of the CFB technology, for control of carbon monoxide and volatile organic compounds	Y	Combustion monitored Carbon monoxide CEM; CEMDAS

Boilers					
Source	Regulated Pollutant	Potentially Applicable Requirements	Description of Requirement	Contains Federally Enforceable Requirement ?	Comments
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	See Table	Condition A 3.	Limits on Flue Gas Emissions from each CFB (See Table 1)	Y	Passed - March 17, 1994, Interpoll Laboratories Report.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Ammonia	Condition A 4	Ammonia (NH_3) slip from exhaust gases shall not exceed 10 ppmvd when burning coal at 100% capacity and 30 ppmvd when burning oil	Y	Passed - March 17, 1994, Interpoll Laboratories Report.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Opacity	Condition A 5	Visible emissions (VE) shall not exceed 20% opacity (6 minute avg.), except for one 6 minute period per hour when VE shall not exceed 27% opacity pursuant to 40 CFR 60.42a	Y	COMs; CEMDAS
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 6	Compliance with the emission limits shall be determined by EPA reference tests included in the July 1, 1992 version of 40 CFR 60 and 61, Chapter 62-297, F.A.C., and listed in Specific Condition No. II.A.8. of this permit or by equivalent methods after obtaining prior written Department approval.	Y	Passed - March 17, 1994, Interpoll Laboratories Report.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Carbon monoxide, Nitrogen oxides, and Sulfur dioxide.	Condition A 6	Compliance with the emission limitations in Specific Condition No. II.A.3. for CO, NO_x, and SO_2, and with the opacity requirements in Specific Condition No. II.A.5., shall be determined with the continuous emission monitoring systems (CEMS) identified in Specific Condition No. II.A.9.	Y	CEMs for CO, NO_x, SO_2, Opacity
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 7	CFBs are subject to 40 CFR 60, Subparts A and Da; except that where requirements within this permit are more restrictive, the requirements of this permit shall apply	Y	Informational

Boilers					
Source	Regulated Pollutant	Potentially Applicable Requirements	Description of Requirement	Contains Federally Enforceable Requirement ?	Comments
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A8	Compliance Tests for each CFB	See Comment	Informatioinal: Tests required as follows.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Various	Condition A 8 (a)	Initial and subsequent compliance tests for PM/PM_{10}, SO_2, NO_x, CO, VOC, lead, fluorides, ammonia, mercury, beryllium and H_2SO_4 mist, shall be conducted in accordance with 40 CFR 60.8 (a),(b),(c),(d),(e), and (f)	Y	See condition A8(e), 1 - 18.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Particulate, Carbon monoxide, Sulfur dioxide and Nitrogen oxides.	Condition A 8 (b)	Annual compliance tests shall be performed for PM, CO, SO_2, and NO_x, commencing no later than 12 months from the initial test	Y	Testing was conducted early February, 1995. Verbal results indicate that boilers passed the performance tests, waiting on hard copy.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Opacity	Condition A 8 (c)	Initial and annual visible emissions compliance tests shall be determined in accordance with 40 CFR 60.11(b) and (e)	Y	Tests were completed. Permit language is somewhat inaccurate, in use of word "determined". Instead of "...compliance tests shall be determined in accordance...", permit should state "...compliance tests shall be conducted by testing in accordance..."
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 8 (d)	Compliance tests shall be conducted between 90 - 100% of the maximum licensed capacity and firing rate for each permitted fuel.	Y	Standard Testing Procedure.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 8 (e)	The following test methods and procedures pursuant to Chapter 62-297, F.A.C., and 40 CFR 60 and 61, or by equivalent methods after obtaining written Department approval, shall be used for compliance testing:	Y	Informational.

Boilers					
Source	Regulated Pollutant	Potentially Applicable Requirements	Description of Requirement	Contains Federally Enforceable Requirement ?	Comments
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 8 (e)(1)	Method 1 for selection of sample site and sample traverses	Y	Method 1 used.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 8 (e)(2)	Method 2 for determining stack gas flow rate	Y	Method 2 used.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Oxygen , Carbon dioxide	Condition A 8 (e)(3)	Method 3 or 3A for gas analysis for calculation of percent O_2 and CO_2	Y	Method 3 used.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 8 (e)(4)	Method 4 for determining stack gas moisture content to convert the flow rate from actual standard cubic feet to dry standard cubic feet	Y	Method 4 used.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Particulate.	Condition A 8 (e)(5)	Method 5 or Method 17 for particulate matter	Y	Method 17 used.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Sulfur dioxide.	Condition A 8 (e)(6)	Method 6, 6C, or 8 for SO_2	Y	Method 8 used.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Nitrogen oxides.	Condition A 8 (e)(7)	Method 7, 7A, 7B, 7C, 7D, or 7E for nitrogen oxides	Y	Method 7E used.

Boilers					
Source	Regulated Pollutant	Potentially Applicable Requirements	Description of Requirement	Contains Federally Enforceable Requirement ?	Comments
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Sulfuric acid mist.	Condition A 8 (e)(8)	Method 8 for sulfuric acid mist	Y	Method 8 used.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Opacity.	Condition A 8 (e)(9)	Method 9 for visible emissions, in accordance with 40 CFR 60.11 and Appendix A	Y	Method 9 used.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Carbon monoxide.	Condition A 8 (e)(10)	Method 10 for CO	Y	Method 10 used.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Lead.	Condition A 8 (e)(11)	Method 12 for lead	Y	Method 12 used.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Fluorides.	Condition A 8 (e)(12)	Method 13A or 13B for fluorides	Y	Method 13B used.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Sulfur dioxide.	Condition A 8 (e)(13)	Method 19 for sulfur dioxide removal efficiency pursuant to 40 CFR 60.48a	Y	Method 19 used.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	VOC.	Condition A 8 (e)(14)	Method 18 or 25 for VOCs	Y	Method 25A used.

Boilers					
Source	Regulated Pollutant	Potentially Applicable Requirements	Description of Requirement	Contains Federally Enforceable Requirement ?	Comments
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Mercury.	Condition A 8 (e)(15)	Method 101A for mercury	Y	Method 101A used.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Beryllium.	Condition A 8 (e)(16)	Method 104 for beryllium	Y	Method 104 used.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	PM10.	Condition A 8 (e)(17)	Method 201 or 201A for PM10 emissions	Y	Method 201A used.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Ammonia.	Condition A 8 (e)(18)	Ammonia (NH_3) to be determined by the Department	Y	Ran Kjeldahl Method and M-5 Back-Half Method.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 9	Continuous Emission Monitoring for each CFB	Y	Informational.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Sulfur dioxide, Nitrogen oxides, Carbon monoxide, and Oxygen or Carbon dioxide.	Condition A 9	CBCP shall install, certify, calibrate, operate. and maintain CEMS for opacity, SO_2, NO_x, CO, and O_2 or CO_2, pursuant to all applicable requirements of Rule 62-296.800, F.A.C.; Chapter 62-297, F.A.C.; 40 CFR 60, Subpart A; 40 CFR 60, Subpart Da, 40 CFR 60, Appendix B; and, 40 CFR 60, Appendix F. These CEMS shall be used to determine compliance with the opacity requirements in Specific Condition No. II.A.3. for CO, NOx, and SO_2, and with the limitations in Specific Condition No. II.A.5.	Y	Standard Operating Procedures.

Boilers					
Source	**Regulated Pollutant**	**Potentially Applicable Requirements**	**Description of Requirement**	**Contains Federally Enforceable Requirement ?**	**Comments**
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Sulfur dioxide, Nitrogen oxides.	Condition A 9	The permittee shall install, certify, calibrate, operate, and maintain multiple span CEMS for sulfur dioxide and nitrogen oxides providing certification tests and calibrations are performed for each span. Each of the CEMS for sulfur dioxide and nitrogen oxides shall continuously record data on a span that satisfies the requirements 40 CFR 60.47a.	Y	Enviroplan.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Sulfur dioxide, Nitrogen oxides.	Condition A 9	Any exception to the above must be specifically authorized by the Department, in writing, and in accordance with state and federal regulations.	Y	"above" refers to CEM requirements in Condition II.A.9.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Sulfur dioxide, Nitrogen oxides.	Condition A 9 (a)	CEMS data shall be recorded and reported in accordance with Chapter 62-297, F.A.C., and 40 CFR 60.49a an 60.7. A record shall be kept for periods of startup, shutdown and malfunction	Y	Standard Operating Procedures.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Sulfur dioxide, Nitrogen oxides.	Condition A 9 (b)	A malfunction means any sudden and unavoidable failure of air pollution control equipment or process equipment or of a process to operate in a normal or usual manner. Failures that are caused entirely or in part by poor maintenance, careless operation, or any breakdown, shall not be considered malfunctions	N	Informational - Definition.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 9 (c)	The procedures under 40 CFR 60.13 shall be followed for installation, evaluation, and operation of all CEMS	Y	Standard Operating Procedures.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Opacity	Condition A 9 (d)	Opacity monitoring system data shall be reduced to 6-minute averages, based on 36 or more data points, and gaseous CEMS data shall be reduced to 1 hour averages, based on 4 or more data points, in accordance with 40 CFR 60.13(h)	Y	Standard Operating Procedures.

Boilers					
Source	Regulated Pollutant	Potentially Applicable Requirements	Description of Requirement	Contains Federally Enforceable Requirement ?	Comments
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Opacity	Condition A 9 (e)	For purposes of reports required under this permit, excess emissions are defined as any calculated average emission concentration, as determined pursuant to Specific Condition No. II.A.11., herein, which exceeds the applicable emission limit in Specific Condition No. II.A.3	N	Informational - Definition.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 9 (f)	The permittee is subject to all applicable provisions of Rule 62-4.130, F.A.C., Plant Operation-Problems. 62-4.130 Plant Operation - Problems. If the permittee is temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by hazard of fire or by any other cause, the permittee shall immediately notify the department. Notification shall include pertinent information as to the cause of the problem, and what steps are being taken to correct the problem and to prevent its recurrence, and where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with Department rules. Specific authority: 403.021, 403.031, 043.061, 403.088, F.S. Law Implemented: 403.021, 403.031, 403.061, 403.087, 403.088, F.S. History: New 3-4-70, Revised 5-17-72, Amended 8-31-88. Previously numbered as 17-4.13, Formerly 17-4.130.	Y	Problem reporting should be standard operating procedure. This is an example of a rule being cited that has many requirements as shown here, and as discussed on the cover letter dated March 21, 1995.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 10	Operations Monitoring for each CFB	See Comment	Monitoring required as follows.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 10 (a)	Devices shall be installed to continuously monitor and record steam production and flue gas temperature at the exit of the control equipment	Y	Enviroplan CEMDAS Tracking.

Boilers					
Source	Regulated Pollutant	Potentially Applicable Requirements	Description of Requirement	Contains Federally Enforceable Requirement ?	Comments
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 10(b)	All coal and No.2 fuel oil usage shall be recorded on a 24 hour (daily) basis for each CFB	Y	Enviroplan CEMDAS Tracking.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 10 (b)	Recycle rejects usage on a volumetric basis shall be estimated and recorded for each 24 hour period in which rejects are burned	Y	SKC fiber rejects handling system is not being used.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 11	Reporting for each CFB	See Comment	Reporting required as follows.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 11 (a) (40 CFR 60.8)	A minimum of thirty days prior written notification of compliance testing shall be given to the Department's N.E. District office and to the RESD office, in accordance with 40 CFR 60.8	Y	Testing conducted early February, 1995. Notification submitted.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 11 (b)	In accordance with Rule 62-297.570, F.A.C., the results of the compliance test shall be submitted within 45 days after completion of last run	Y	Standard Operating Procedures.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Opacity	Condition A 11 (c)	The owner or operator shall submit excess emission reports to the RESD office, in accordance with Rule 62-210.700, F.A.C., and 40 CFR 60.7(c) and (d). The reports should include the following:	Y	Standard Operating Procedures.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Opacity	Condition A 11 (c)(1)	The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factors used, and the date and time of commencement and completion of each period of excess emissions (40 CFR 60.7(c)(1))	Y	Standard Operating Procedures.

Boilers					
Source	Regulated Pollutant	Potentially Applicable Requirements	Description of Requirement	Contains Federally Enforceable Requirement ?	Comments
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Opacity	Condition A 11 (c)(2)	Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the furnace boiler system. The nature and cause of any malfunction (if known) and the corrective action taken or preventative measures adopted (40 CFR 60.7(c)(2))	Y	Standard Operating Procedures.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 11 (c)(3)	The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks, and the nature of the system repairs or adjustments (40 CFR 60.7(c)(3))	Y	Standard Operating Procedures.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Opacity	Condition A 11 (c)(4)	When no excess emissions have occurred or the continuous monitoring system has not been inoperative, repaired, or adjusted, such information shall be stated in the report (40 CFR 60.7(c)(4))	Y	Standard Operating Procedures.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 11 (c)(5)	The owner or operator shall maintain a file of all measurements, including continuous monitoring systems, monitoring devices, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous systems or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and, all other information required by this permit recorded in a permanent form suitable for inspection (40 CFR 60.7(e))	Y	Standard Operating Procedures.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Opacity	Condition A 11 (d)	Annual and quarterly reports shall be submitted to the RESD office as per Rule 62-297.500, F.A.C.	Y	Standard Operating Procedures.

Boilers					
Source	**Regulated Pollutant**	**Potentially Applicable Requirements**	**Description of Requirement**	**Contains Federally Enforceable Requirement ?**	**Comments**
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 12	Any change in the method of operation, fuels utilized, equipment, or operating hours or any other changes pursuant to Rule 62-212.200, F.A.C., defining modification, shall be submitted for approval; to the Department's Bureau of Air Regulation (BAR)	Y	CBCP will be submitting changes for approval.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No specific pollutant.	Condition A 13	All records of documentation shall be kept on file for a minimum of 3 years pursuant to Rule 17-4.160(4), F.A.C.	Y	Standard Operating Procedures.

Boilers					
Source	**Regulated Pollutant**	**Potentially Applicable Requirements**	**Description of Requirement**	**Contains Federally Enforceable Requirement ?**	**Comments**
Fluidized Bed Coal Fired Boilers (CFB) **B1: Boiler A** **B2: Boiler B** **B3: Boiler C**	Opacity	Condition A 14	62-210.700 Excess Emissions. (1) Excess emissions resulting from startup, shutdown or malfunction of any source shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. (2) Existing emissions from existing fossil fuel steam generators resulting from startup or shutdown shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized. (3) Excess emissions from existing fossil fuel steam generators resulting from boiler cleaning (soot blowing) and load change shall be permitted provided the duration of such excess emissions shall not exceed 3 hours in any 24-hour period and visible emissions shall not exceed Number 3 of the Ringelmann Chart (60 percent opacity), and providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized. A load change occurs when the operational capacity of a unit is in the 10 percent to 100 percent capacity range, other than startup or shutdown, which exceeds 10 percent of the unit's rated capacity and which occurs at a rate of 0.5 percent per minute or more. Visible emissions above 60 percent opacity shall be allowed for not more than 4, six (6) - minute periods, during the 3 - hour period of excess emissions allowed by this subparagraph, for boiler cleaning and load changes, at units which have installed and are operating, or have committed to install or operate, continuous	Y	Informational. Excess emissions are properly reported.

Boilers					
Source	**Regulated Pollutant**	**Potentially Applicable Requirements**	**Description of Requirement**	**Contains Federally Enforceable Requirement ?**	**Comments**
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No Specific pollutant.	Condition A 15	62-210.650 Circumvention. No person shall circumvent any air pollution control device, or allow the emission of air pollutants without the applicable air pollution control device operating properly. Specific Authority: 403.061, F.S. Law Implemented: 403.021, 403.031, 403.061, 403.087, F.S. History: Formerly 17-2.240, Formerly 17-210.650.	Y	Informational. Circumvention is not done.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No Specific pollutant.	Condition A 16	The permittee is subject to all applicable provisions of Rule 62-4.160, F.A.C., Permit Conditions	Y	This is an example of a rule being cited that has many requirements. The rule in its entirety has been attached to the cover letter dated March 21, 1995.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No Specific pollutant (VOC not limited by requirement).	Condition B 3	The VOC emissions, from the maximum No.2 fuel oil utilization rate of ... 8,000 gals/hr and 1,900,000 gals/yr for the three boilers, are not expected to be significant.	Y	Boiler meter reading; CEMDAS tracking. Boilers used less than 1,079,200 gallons total in 1994. Hourly fuel usage limited by heat input as addressed by Condition A.1.(c). From AP-42, VOC from highest, Boiler C, calculates to 0.139 tons in 1994. Max. calculates to 0.245 tpy.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	No Specific pollutant.	Condition C 4	Fuel shall not be burned in any CBCP unit unless the control devices are operating properly, pursuant to 40 CFR 60, Subpart Da	Y	CEMS, Interlock? , Tracking System.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Sulfur dioxide.	Condition C 5	The maximum sulfur content of the No.2 fuel oil utilized in the CFBs and the two unit limestone dryers shall not exceed 0.05%, by weight. Samples shall be taken of each fuel oil shipment received and shall be analyzed for sulfur content and heating value. Records of the analyses shall be kept a minimum of 3 years to be available for the Department and RESD inspection	Y	Standard Operating Procedure, Analysis.

Boilers					
Source	**Regulated Pollutant**	**Potentially Applicable Requirements**	**Description of Requirement**	**Contains Federally Enforceable Requirement ?**	**Comments**
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Sulfur dioxide.	Condition C 6	Coal fired in the CFBs shall have a sulfur content not to exceed 1.7%, by weight, on a shipment (train load) basis. Coal sulfur content shall be determined and recorded in accordance with 40 CFR 60.47a	Y	Standard Operating Procedure, Analysis.
Fluidized Bed Coal Fired Boilers (CFB) B1: Boiler A B2: Boiler B B3: Boiler C	Sulfur dioxide.	Condition C 7	CBC shall maintain a daily log of the amounts and types of fuel used and copies of fuel analyses containing information on sulfur content and heating values	Y	Standard Operating Procedure, CEMDAS Tracking System, for boiler usage.

Boilers					
Source	**Regulated Pollutant**	**Potentially Applicable Requirements**	**Description of Requirement**	**Contains Federally Enforceable Requirement ?**	**Comments**
Construction Requirements					
Fluidized Bed Coal Fired Boilers (CFB) **B1: Boiler A** **B2: Boiler B** **B3: Boiler C**	No Specific pollutant.	Condition A 1 (h)	No less than 90 days prior to completion of construction, CBCP shall submit a plan to the Department for conducting a 30 day test burn within one year after initial compliance testing. That test burn shall be designed to ascertain whether the CFBs can burn the rejects as supplemental fuel w/o exceeding any of the limitations on emissions and fuel usage contained in Specific Condition No. II.A. and w/o causing any operational problems which would affect the reliable operation (w/ customary maintenance) of the CFBs and w/o violating any other environmental requirements	Y	Separate plan - no disposal facility for ash.
Fluidized Bed Coal Fired Boilers (CFB) **B1: Boiler A** **B2: Boiler B** **B3: Boiler C**	No Specific pollutant.	Condition A 1 (h)	CBCP shall notify the Department (RESD) at least 30 days prior to initiation of the test burn	Y	Construction of feed system has not been completed. Test will not be performed until ash disposal facility available.
Fluidized Bed Coal Fired Boilers (CFB) **B1: Boiler A** **B2: Boiler B** **B3: Boiler C**	No Specific pollutant.	Condition A 1 (h)	The results of the test burn and CBCP's analysis shall be reported to the Department and to the RESD within 45 days of completion of the test burn. The Department shall notify CBCP within 30 days thereafter of its approval or disapproval of any conclusion by CBCP that the test burn demonstrated that the rejects can be burned in compliance with this condition	Y	Test not yet performed.

Material Handling General					
Source	**Regulated Pollutant**	**Potentially Applicable Requirements**	**Description of Requirement**	**Contains Federally Enforceable Requirement ?**	**Comments**
Material Handling General	No Specific pollutant.	Condition B 1	The material handling and treatment operations, including coal and limestone unloading buildings, coal and limestone reclaim hoppers, coal crusher house, fly and bed ash silos, ash pelletizer, pellet curing silo, coal and limestone day silos, conveyors, storage areas and related equipment, may be operated continuously (8760 hr/yr).	N	See Limestone Handling, Limestone Dryers.
Material Handling General	No Specific pollutant.	Condition B 2	Limits for material/usage rates for coal, limestone, fly ash and bed ash. (See Table 2) a. Coal 117,000 TPM 1,170,000 TPY b. Limestone 27,000 " 320,000 " c. Fly Ash 28,000 " 326,000 " d. Bed Ash 8,000 " 88,000 "	Y	From data provided by Cedar Bay.
Material Handling General	Particulate, Opacity.	Condition B 4 (b)	Initial and subsequent compliance tests shall be conducted for VE and PM emissions using EPA Methods 9 and 5, respectively, in accordance with Chapter 62-297, F.A.C., and 40 CFR 60, Appendix A (July, 1992 version)	Y	Will comply with methods.
Material Handling General	Opacity.	Condition B 5	VE shall not exceed 5% opacity from any source in the material handling and treatment area listed in Specific Condition No. II.B.4., in accordance with Rule 62-296.711(2)(a), F.A.C.	Y	Pan impingement scrubber passed July, 1994. V.E. emissions questionable.
Material Handling General	Particulate, Opacity.	Condition B 5	After the one-time PM mass emissions verification compliance tests have been performed, neither the Department nor the RESD will require a PM mass emissions test in accordance with EPA Method 5 unless the VE limit of 5% opacity is exceeded for a given source, or unless the Department or the RESD, based on other information, has reason to believe that the PM emission limits are being violated in accordance with Rule 62-297.620(4), F.A.C.	Y	No continuing requirements unless V.E. violation. Propose Method 9 annually.
Material Handling General	Particulate, Opacity.	Condition B 6	All sources subject to VE and PM mass emissions performance tests shall conduct them concurrently, except where inclement weather interferes	Y	Standard Operating Procedure.

Material Handling General					
Source	**Regulated Pollutant**	**Potentially Applicable Requirements**	**Description of Requirement**	**Contains Federally Enforceable Requirement ?**	**Comments**
Material Handling General	Particulate, Opacity.	Condition B 9	Initial and annual PM emissions and VE compliance tests for all the emission points in the material handling and treatment area, including but not limited to the sources specified in this permit, shall be conducted in accordance with the July 1, 1992 version of 40 CFR 60, Appendix A, using EPA Methods 5 and 9, respectively.	Y	Will use EPA Methods 5 & 9 specified Standard Test Procedures.
Material Handling General	Particulate, Opacity.	Condition C 3	CBCP is subject to applicable provisions of Rule 62-296.310(3), F.A.C., Unconfined Emissions of Particulate Matter	Y	Particulate matter is controlled by wet suppression, where applicable.

Coal Handling					
Source	Regulated Pollutant	Potentially Applicable Requirements	Description of Requirement	Contains Federally Enforceable Requirement ?	Comments
C1: Coal Crusher Dust Collector	Particulate, Opacity.	Condition B 4 (a)	Coal Crusher Building - Baghouse Operation Required	Y	Pressure Drop of Baghouse + Initial Test.
C2: Coal Silo Dust Collector	Particulate, Opacity	Condition B 4 (a)	Coal Silo Conveyor - Baghouse Operation Required	Y	Pressure Drop of Baghouse + Initial Test.
C1: Coal Crusher Dust Collector C2: Coal Silo Dust Collector	Particulate, Opacity.	Condition B 4 (a)	The emissions from the above listed sources are subject to the PM emission limitation requirement of 0.003 gr/dscf (applicant requested limitation which is more stringent than what is allowed by Rule 62.296.711, F.A.C.). Since these sources are RACT standard type, then a one-time verification test on each source shall be required for PM mass emissions to demonstrate that the baghouse control systems can achieve the 0.003 gr/dscf.	Y	Passed compliance tests. "Above" refers to sources in the "Source" column in this table.
C1: Coal Crusher Dust Collector C2: Coal Silo Dust Collector	Particulate, Opacity.	Condition B 4 (a)	The above mentioned performance tests shall be conducted using EPA Method 5 pursuant to Rule 62-297, F.A.C., and 40 CFR 60, Appendix A (July, 1992 version)	Y	Used EPA methods specified.
CF1: Coal Unloading Building Water Spray CF2: Coal Feeders	Particulate, Opacity.	Condition B 4 (b)	The PM emissions from the following process and/or equipment, in the material handling and treatment area sources, shall be controlled using wet suppression/removal technique: 62-296-310(3)	Y	Water spray used here applicable.
CF1: Coal Unloading Building Water Spray CF2: Coal Feeders	Particulate, Opacity.	Condition B 4 (b)	Coal Car Unloading	Y	Water sprays.
CF1: Coal Unloading Building Water Spray CF2: Coal Feeders	Particulate, Opacity.	Condition B 4 (b)	The above listed sources are subject to a VE and a PM emissions limitation requirement of 5% opacity and 0.01 gr/dscf (applicant requested limitation which is more stringent than what is allowed by rule), respectively, in accordance with Rule 62-296.711, F.A.C.	Y	"Above" refers to sources in the "Source" column in this table. Coal unloader is a fugitive. Petition for a change: Compliance w/mass emission; question 5% V.E.. Letter from R. Pace to K. Oven, 12/1/94.

Limestone (Aragonite) Handling					
Source	Regulated Pollutant	Potentially Applicable Requirements	Description of Requirement	Contains Federally Enforceable Requirement ?	Comments
LA1: Limestone Dryer/Pulverizer Fabric Filter (1 BMC-FLT-1A) LB1: Limestone Dryer/Pulverizer Fabric Filter (1 BMC-FLT-1B)	No Specific pollutant.	Condition B 1	The limestone crushers/dryer may be operated for a maximum of (a.)11 hours per day [(b.)maximum of 2920 hrs/yr] at maximum capacity	Y	Limestone dryer "A" has exceeded 11 hrs/day at full capacity on 9/1/94. Total operating hours exceeded 2920 hours in 1994, but not at full capacity. Permit language needs to be revised, see attached cover letter dated March 21, 1995..
LA1: Limestone Dryer/Pulverizer Fabric Filter (1 BMC-FLT-1A) LB1: Limestone Dryer/Pulverizer Fabric Filter (1 BMC-FLT-1B)	No specific pollutant. VOC emissions not limited by condition.	Condition B 3	The VOC emissions, from the maximum No.2 fuel oil utilization rate of 240 gals/hr and 700,800 gals/yr for the limestone dryers..., are not expected to be significant.	Y	Dryer meter readings. Dryer VOC emissions are calculated by AP-42 estimation methods, since testing is not currently required. Dryers used less than 181,500 gallons total in 1994. From AP-42, VOC from highest, Dryer No. 1, calculates to 0.0306 tons in 1994. Max calculates to 0.118 tpy.
LA1: Limestone Dryer/Pulverizer Fabric Filter (1 BMC-FLT-1A) LB1: Limestone Dryer/Pulverizer Fabric Filter (1 BMC-FLT-1B)	Particulate.	Condition B 4 (a)	Limestone Pulverizer/Conveyor requires baghouse or fabric filter.	Y	Pressure Drop of Baghouse + Initial Test.
LA2: Limestone Hopper 1 Vent Filter LB2: Limestone Hopper 2 Vent Filter	Particulate.	Condition B 4 (a)	Limestone Storage Bin requires baghouse or fabric filter.	Y	Pressure Drop of Baghouse + Initial Test.

Limestone (Aragonite) Handling					
Source	**Regulated Pollutant**	**Potentially Applicable Requirements**	**Description of Requirement**	**Contains Federally Enforceable Requirement ?**	**Comments**
LA1: Limestone Dryer/Pulverizer Fabric Filter (1 BMC-FLT-1A) LB1: Limestone Dryer/Pulverizer Fabric Filter (1 BMC-FLT-1B) LA2: Limestone Hopper 1 Vent Filter LB2: Limestone Hopper 2 Vent Filter	Particulate.	Condition B 4 (a)	The emissions from the above listed sources are subject to the PM emission limitation requirement of 0.003 gr/dscf (applicant requested limitation which is more stringent than what is allowed by Rule 62.296.711, F.A.C.). Since these sources are RACT standard type, then a one-time verification test on each source shall be required for PM mass emissions to demonstrate that the baghouse control systems can achieve the 0.003 gr/dscf.	Y	Passed compliance tests. "Above" refers to sources in the "Source" column in this table.
LA1: Limestone Dryer/Pulverizer Fabric Filter (1 BMC-FLT-1A) LB1: Limestone Dryer/Pulverizer Fabric Filter (1 BMC-FLT-1B) LA2: Limestone Hopper 1 Vent Filter LB2: Limestone Hopper 2 Vent Filter	Particulate.	Condition B 4 (a)	The above mentioned performance tests shall be conducted using EPA Method 5 pursuant to Rule 62-297, F.A.C., and 40 CFR 60, Appendix A (July, 1992 version)	Y	Used EPA methods specified.
LA1: Limestone Dryer/Pulverizer Fabric Filter (1 BMC-FLT-1A) LB1: Limestone Dryer/Pulverizer Fabric Filter (1 BMC-FLT-1B)	No Specific pollutant.	Condition B 7	Maximum emissions from each of the limestone dryers, while using oil, shall not exceed the following (based on AP-42 factors, Table 1, 3-1, Industrial Distillate, 10/86): (See Table 3)	Y	PM10-Test Data: SO_2, CO, NO_x, VOC Calculate from fuel usage rate, using AP-42. reference cited. Limit therefore is actually on fuel usage and sulfur content, rather than on a measured quantity of pollutant emitted, in accordance with AP-42 estimation method.

Limestone (Aragonite) Handling					
Source	Regulated Pollutant	Potentially Applicable Requirements	Description of Requirement	Contains Federally Enforceable Requirement ?	Comments
LA1: Limestone Dryer/Pulverizer Fabric Filter (1 BMC-FLT-1A) LB1: Limestone Dryer/Pulverizer Fabric Filter (1 BMC-FLT-1B)	Sulfur dioxide	Condition B 8 (a)	The maximum sulfur content of No.2 fuel oil shall not exceed 0.05%, by weight.	Y	Analyses of fuel oil and specification.
LA1: Limestone Dryer/Pulverizer Fabric Filter (1 BMC-FLT-1A) LB1: Limestone Dryer/Pulverizer Fabric Filter (1 BMC-FLT-1B)	No Specific pollutant.	Condition B 8 (b)	The maximum firing rate of No.2 fuel oil for each limestone dryer shall not exceed 120 gals/hr, or 350,400 gals/yr. This reflects a combined total fuel oil firing rate of 240 gals/hr., and 700,800 gals/yr, for the two dryers.	Y	Metered.
LA1: Limestone Dryer/Pulverizer Fabric Filter (1 BMC-FLT-1A) LB1: Limestone Dryer/Pulverizer Fabric Filter (1 BMC-FLT-1B)	Sulfur dioxide	Condition C 7	CBC shall maintain a daily log of the amounts and types of fuel used and copies of fuel analyses containing information on sulfur content and heating values	Y	Limestone dryer fuel oil meter readings not recorded daily in 1994; meters installed May 17, 1994; missing data has been calculated for each day in 1994. Meters are now recorded daily.

Ash Handling					
Source	**Regulated Pollutant**	**Potentially Applicable Requirements**	**Description of Requirement**	**Contains Federally Enforceable Requirement ?**	**Comments**
		Condition B 4	Material handling sources shall be regulated as follows:		
		Condition B 4 (a)	The material handling and treatment area sources with either fabric filter or baghouse controls are as follows:		
A1: Bed Ash Storage Hopper Vent Filter w/Fan	Particulate, Opacity.	Condition B 4 (a)	Bed Ash Hopper	Y	Pressure Drop of Baghouse + Initial Test.
A2: Bed Ash Silo Collector (Vents through ash mechanical exhausts.) A3: Bed Ash Silo Vent Filter (Controls truck loadout, rail loadout & silo transfers.)	Particulate, Opacity.	Condition B 4 (a)	Bed Ash Silo	Y	Separator + Dry cyclone w/ Baghouse vent (2 baghouses).
A15: RR Pellet Load Out Dust Filter	Particulate, Opacity.	Condition B 4 (a)	Rail Loadout Surge Hopper	Y	Pressure Drop of Baghouse + Initial Test.
A13: Curing Silo Impingement Scrubber	Particulate, Opacity.	Condition B 4 (a)	Pellet Stock Conveyor	Y	Pressure Drop of Baghouse + Initial Test.
A4: Fly Ash Collector (Vents through ash mechanical exhausts) (1 ASA-CO-1A) A5: Fly Ash Collector (Vents through ash mechanical exhausts) (1 ASA-CO-1B) A6: Fly Ash Silo Vent Filter (Controls truck load out, rail loadout & silo) (1 ASA-FLT-2)	Particulate, Opacity.	Condition B 4 (a)	Fly Ash Silo	Y	Separator + Dry cyclone w/ Baghouse vent (2 baghouses).
A7: Bed Ash Pelletizer Receiver Vent Filter (1 ASA-FLT-2)	Particulate, Opacity.	Condition B 4 (a)	Bed Ash Receiver	Y	Pressure Drop of Baghouse + Initial Test.

Ash Handling					
Source	**Regulated Pollutant**	**Potentially Applicable Requirements**	**Description of Requirement**	**Contains Federally Enforceable Requirement ?**	**Comments**
A8: Fly Ash Receiver Vent Filter (1 ASF-FLT-1)	Particulate, Opacity.	Condition B 4 (a)	Fly Ash Receiver	Y	Pressure Drop of Baghouse + Initial Test.
A17: Pellet Screen Dust Filter (1 ASF-DCO-1)	Particulate, Opacity.	Condition B 4 (a)	Pellet Vibratory Screen	Y	Pressure Drop of Baghouse + Initial Test.
A10: Recycle Tank Dust Filter (1 ASF-DCO-2)	Particulate, Opacity.	Condition B 4 (a)	Pelletizing Ash Recycle Tank	Y	Pressure Drop of Baghouse + Initial Test.
A9, AF11: Recycle Surge Hopper Filter (500 cfm) (1 ASF-FLT-3)	Particulate, Opacity.	Condition B 4 (a)	Pelletizing Recycle Hopper	Y	Pressure Drop of Baghouse + Initial Test
A14: Curing Silo Dust Filter (1 ASF-DCO-4)	Particulate, Opacity.	Condition B 4 (a)	Cured Pellet Recycle Conveyor	Y	Pressure Drop of Baghouse + Initial Test.
A16: Pellet Recycle Belt Head Pulley to Bucket Elevator Dust Filter (1 ASF-DCO-5)	Particulate, Opacity.	Condition B 4 (a)	Pellet Recycle Conveyor	Y	Pressure Drop of Baghouse + Initial Test.

Ash Handling					
Source	**Regulated Pollutant**	**Potentially Applicable Requirements**	**Description of Requirement**	**Contains Federally Enforceable Requirement ?**	**Comments**
A1: Bed Ash Storage Hopper Vent Fan (1 ASA-FLT-1) A2: Bed Ash Silo Collector (1 ASA-CO-2) A3: Bed Ash Silo Vent Filter (1 ASA-FLT-3) A4: Fly Ash Collector (1 ASA-CO-1A) A5: Fly Ash Collector (1 ASA-CO-1B) A6: Fly Ash Silo Vent Filter (1 ASA-FLT-2) A7: Bed Ash Pelletizer Receiver Vent Filter (1 ASF-FLT-2) A8: Fly Ash Receiver Vent Filter (1 ASF-FLT-1) A9(AF11): Recycle Surge Hopper (1 ASF-FLT-3) A10: Recycle Tank Dust Filter (1 ASF-DCO-2) A14: Curing Silo Dust Filter (1 ASF-DCO-4) A15: RR Pellet Load Out Dust Filter (1 ASF-DCO-3) A16: Pellet Recycle Belt H. Pulley to B. Elevator Dust Filter (1 ASF-DCO-5) A17: Pellet Screen Dust Filter (1 ASF-DCO-1)	Particulate, Opacity.	Condition B 4 (a)	The emissions from the above listed sources are subject to the PM emission limitation requirement of 0.003 gr/dscf (applicant requested limitation which is more stringent than what is allowed by Rule 62.296.711, F.A.C.). Since these sources are RACT standard type, then a one-time verification test on each source shall be required for PM mass emissions to demonstrate that the baghouse control systems can achieve the 0.003 gr/dscf.	Y	Compliance Tests conducted. Sources are those listed in the Source column of this sheet.

Ash Handling					
Source	Regulated Pollutant	Potentially Applicable Requirements	Description of Requirement	Contains Federally Enforceable Requirement ?	Comments
A1: Bed Ash Storage Hopper Vent Fan (1 ASA-FLT-1) A2: Bed Ash Silo Collector (1 ASA-CO-2) A3: Bed Ash Silo Vent Filter (1 ASA-FLT-3) A4: Fly Ash Collector (1 ASA-CO-1A) A5: Fly Ash Collector (1 ASA-CO-1B) A6: Fly Ash Silo Vent Filter (1 ASA-FLT-2) A7: Bed Ash Pelletizer Receiver Vent Filter (1 ASF-FLT-2) A8: Fly Ash Receiver Vent Filter (1 ASF-FLT-1) A9(AF11): Recycle Surge Hopper (1 ASF-FLT-3) A10: Recycle Tank Dust Filter (1 ASF-DCO-2) A14: Curing Silo Dust Filter (1 ASF-DCO-4) A15: RR Pellet Load Out Dust Filter (1 ASF-DCO-3) A16: Pellet Recycle Belt H. Pulley to B. Elevator Dust Filter (1 ASF-DCO-5) A17: Pellet Screen Dust Filter (1 ASF-DCO-1)	Particulate, Opacity.	Condition B 4 (a)	The above mentioned performance tests shall be conducted using EPA Method 5 pursuant to Rule 62-297, F.A.C., and 40 CFR 60, Appendix A (July, 1992 version)	Y	Used EPA methods specified. Passed compliance tests. "Above" refers to sources in the "Source" column in this table.

Ash Handling					
Source	**Regulated Pollutant**	**Potentially Applicable Requirements**	**Description of Requirement**	**Contains Federally Enforceable Requirement ?**	**Comments**
A11: Hydrator Venturi Scrubber (1 ASF-SCB-1) A12: Pan Impingement Scrubber (1 ASF-SCB-2) A13: Curing Silo Impingement Scrubber (1 ASF-SCB-3)	Particulate, Opacity.	Condition B 4 (b)	The PM emissions from the following process and/or equipment, in the material handling and treatment area sources, shall be controlled using wet suppression/removal techniques:		
A11: Hydrator Venturi Scrubber (1 ASF-SCB-1)	Particulate, Opacity.	Condition B 4 (b)	Ash Pellet Hydrator	Y	Venturi Scrubber - Pressure Drop & Water flow.
A12: Pan Impingement Scrubber (1 ASF-SCB-2)	Particulate, Opacity.	Condition B 4 (b)	Ash Pelletizing Pan	Y	Impingement Scrubber.
A13: Curing Silo Impingement Scrubber (1 ASF-SCB-3)	Particulate, Opacity.	Condition B 4 (b)	Ash Pellet Curing Silo	Y	Impingement Scrubber.
A11: Hydrator Venturi Scrubber (1 ASF-SCB-1) A12: Pan Impingement Scrubber (1 ASF-SCB-2) A13: Curing Silo Impingement Scrubber (1 ASF-SCB-3)	Particulate, Opacity.	Condition B 4 (b)	The above listed sources are subject to a VE and a PM emissions limitation requirement of 5% opacity and 0.01 gr/dscf (applicant requested limitation which is more stringent than what is allowed by rule), respectively, in accordance with Rule 62-296.711, F.A.C.	Y	Passed tests.

Seminole Kraft Corporation Requirements					
Source	Regulated Pollutant	Potentially Applicable Requirements	Description of Requirement	Contains Federally Enforceable Requirement ?	Comments
Seminole Kraft Corporation	No specific pollutant.	D. Contemporaneous Emission Reductions	The following SKC sources shall be permanently shut down and made incapable of operation, and shall turn in their operation permits to the Department's BAR, within 30 days of written confirmation by the Department of the successful completion of the initial compliance tests on the CBCP boilers:	Y	Letter received Aug 10, 1994 from R. Pace to J.L. West indicates approval of surrender of permits effective July 22, 1994. An inspection was made at Seminole Kraft March 24, 1995 for verification. Parts were removed, except stacks, which were to have been removed by June 30, 1995. "Seminole Kraft has fulfilled the requirements set forth in the operating agreement." See attached letter.
Seminole Kraft Corporation	No specific pollutant.		The No.1 PB (power boiler)	Y	See above comment.
Seminole Kraft Corporation	No specific pollutant.		The No.2 PB	Y	See above comment.
Seminole Kraft Corporation	No specific pollutant.		The No.3 PB	Y	See above comment.
Seminole Kraft Corporation	No specific pollutant.		The No.1 BB (bark boiler)	Y	See above comment.
Seminole Kraft Corporation	No specific pollutant.		The No.2 BB	Y	See above comment.
Seminole Kraft Corporation	No specific pollutant.		The RESD office shall be specifically informed in writing within 30 days after each individual shut down of the above referenced equipment. This requirement shall operate as a joint and individual requirement to assure common control for purpose of ensuring that all commitments relied on are in fact fulfilled	Y	See above comment.

Seminole Kraft Corporation Requirements					
Source	**Regulated Pollutant**	**Potentially Applicable Requirements**	**Description of Requirement**	**Contains Federally Enforceable Requirement ?**	**Comments**
Seminole Kraft Corporation	No specific pollutant	*PA 88-24A Condition II. D.*	*Within one year of surrender of operating permits as provided above, SK shall have completed the following steps to ensure compliance with this condition* *Remove all oil guns* *Remove motors and selected conveyor parts in wood feed system for bark boilers* *Dismantle stacks* *Disconnect boiler feedwater pumps* *Sever fuel line connections* *Remove fan motors* *These sources shall not, under any circumstances, be restarted, refurbished or re-permitted as new or existing. sources, at the SK or CBCP site.*	Y	*Since this is stated as being both a joint and individual requirement, CBCP should confirm with SKC that shut down has occurred and operation permits have been surrendered.*
Seminole Kraft Corporation	No specific pollutant	*PA 88-24A Condition II. E. 1.*	*This certification and any individual air permits issued by the Department subsequent to the final order of the Board certifying the power plant site under Section 403.509, F.S., shall incorporate the following limitations on the total tonnage of the specified criteria pollutants allowed to be emitted annually by any natural gas-fired boiler or combination of boilers constructed and operated by SK to provide up to 375,000 lbs/hr of steam for use in its recycled paper process:* *Tons Per Year* *CO 553* *NO_x 310* *SO_2 25, except as provided in (2) below*	Y	*This condition applies to permitting activities subsequent to the issuance of PA 88-24A.*

Seminole Kraft Corporation Requirements					
Source	Regulated Pollutant	Potentially Applicable Requirements	Description of Requirement	Contains Federally Enforceable Requirement ?	Comments
Seminole Kraft Corporation	No specific pollutant	*PA 88-24A Condition II. E. 2.*	*In the event that the ceiling for SO_2 is expected to be exceeded due to unavailability of natural gas caused by factors beyond the control of SK, SK may notify the Department that it must exceed the ceiling as provided herein; and emissions of SO_2 during the period of such curtailment shall not be counted against the yearly emissions ceiling of 25 tons unless administrative proceedings result in a finding that the exceedance was within Seminole Kraft's control. In no event shall the annual emissions of SO_2 from the steam boilers referenced above exceed a ceiling of 41 tons per year.*	Y	*Compliance with this condition is the responsibility of Seminole-Kraft Corporation.*
Seminole Kraft Corporation	No specific pollutant	*PA 88-24A Condition II. E. 3.*	*The notice shall include a statement or reasons for the request and supporting documentation, and shall be published by SK, without supporting documents, in a newspaper of general circulation in Jacksonville, as defined in Section 403.5115(2), F.S. The filing and publication of the notice no later than 7 days following the date of exceedance, shall preclude any finding of violation by DEP until final disposition of any administrative proceedings.*	Y	*Compliance with this condition is the responsibility of Seminole-Kraft Corporation.*

CEDAR BAY GENERATING CO.

Facility Supplemental Information:

TITLE V APPLICATION

Compliance Certification

Certification Statement

I, the undersigned, am the responsible official as defined in Chapter 62-210.200, F.A.C., of the Cedar bat Generating Co., L. P. facility for which this report is being submitted. I hereby certify, based upon information and belief formed after reasonable inquiry, that the statements made and data contained are true, accurate , and complete.

Signature	Plant Director	13 JUN 96
	Title	Date

f:\at&k\airdoc\complrpt.

Rev. 0: By: Tim Bofman 11/19/93 Approved:

PURPOSE:

To provide approved operating guidelines for boiler startup and shut-down practices and operation in FFRB mode.

SCOPE:

The text provided will be utilized as reference material for day to day operation by operations personnel as well as aid in qualification and training.

GENERAL:

A. System / Component: **Steam Generator (SGA) - Boilers**

B. Description / Purpose:

1. The Steam Generator consists of the following equipment:

   a. Combustion Chamber
   b. Cyclone Separators
   c. Loop Seals
   d. Superheaters
   e. Superheat Desuperheaters
   f. Economizer
   g. Reheater
   h. Reheat Desuperheaters
   i. Flue Gas Ductwork and Lagging

2. The Steam Generator System provides for the transfer of heat released during the combustion of the fuel to the incoming cycle feedwater and to the saturated steam to produce superheated steam at the pressure and temperature required by the high pressure turbine, and the Process Steam System. Heat is also transferred through the Reheater.

C. Reference Material:

1. Drawings:

   a. Pyropower #552001-003

2.Technical Manuals:

a. Pyropower Operating Manual
b. Black and Veatch Integrated Control Manual
c. Black and Veatch Operator Training Manual Vol. 1

D. General precautions:

1.Hard hats and safety glasses must be worn at all times.

2.Hearing protection and correct respirators must be worn in designated areas, or when necessary.

3.Ensure selected equipment has been thoroughly walked down, all guards in place, all applicable Safety Tags and Locks per the Safety Tag procedure and all affected personnel informed of system operations.

4.Always use a full face shield with tinted glass to protect eyes and face from hot gases or harmful light rays when exposed to an in-service boiler. Equipment that operates normally with a negative pressure can go positive under upset conditions.

5.Do not tamper with or bypass any interlocks.

6.Report and correct immediately any safety hazard found.

7.Use an approved filtering dust mask or respirator when entering dust laden areas (ash limestone or fuel) of the boiler.

8.Hot water, steam or vapor may be present in drums, headers or lines. Caution should be used when removing manways, inspection ports or connections.

9.Never enter a confined space alone, insure that the plant tag system has been implemented prior to entry. Do not enter a confined space until it has been cooled, purged of gases and properly ventilated. Station a person at the entrance. A gas monitor should be used to confirm a safe atmosphere.

E. System interlocks and permissives:

1. Boiler Purge

   a. A boiler purge is a flow of air through the furnace, boiler gas passages and associated flues and ducts that will effectively remove any gaseous combustibles and displace with clean air. Purge rate is to be not less than 25% nor more than 40% of full load volumetric air flow at the point of measurement. Boiler enclosure will not be purged with not less than five volumetric changes but in any event not less than five minutes.

2. A boiler purge is required under any of the following conditions:

   a. During cold start before establishing initial SUB firing.
   b. After a master fuel trip if the bed temperature is below 1400°F and no SUBs in service.
   c. When all coal feed trips with less than 1200°F Bed temperature no SUBs in service.
   d. During start if the SUBs are removed before reaching the 1400°F solid fuel latch temperature.

3. The following permissives are required to initiate a boiler purge.

   a. Total air flow greater than required purge flow and all dampers open (this requirement is satisfied when the total air flow, PA to grid flow, SA nozzle flow, SA to fuel feed points and SA to each burner is greater than 25%)
   b. No boiler trips.
   c. No coal being admitted to boiler (all feeders off and coal conveyor discharge valves are closed)
   d. All fuel oil safety shut-off valves for each SUB is proven closed.
   e. Main oil safety shut-off valve is proven closed.

4. If a purge is required and the permissives are satisfied, the operator can then initiate a boiler purge start. The purge will continue for five minutes unless interrupted by a loss of one of the above permissives. At the end of the purge period, the furnace ready (main interlock) permissive will be established and admission of fuel may begin.

5.MASTER FUEL TRIP (MFT)

A. Under certain upset conditions in the boiler it is required to trip all fuel supplies in service at the time. This is referred to as a master fuel trip (MFT) and is implemented to prevent unsafe conditions from occurring.

6.Any one or more of the following conditions will result in a MFT:

a. When paired cyclone inlet temperatures increase to 1832 °F (as determined by separate thermocouples)
b. Loss of PA, SA, or ID fans (any one fan) or loss of HP air pressure.
c. Steam drum level low low (-8 inches) for more than 5 seconds (indicated by any 2 out of 3 switches)
d. Steam drum high high (+8 inches) for more than 2 seconds (indicated by any 2 out of 3 switches)
e. Furnace pressure high, +14 inches wc (as determined by a combination of two of three separate sensors)
f. Primary air flow to the grid below minimum.
g. Air/Fuel ratio below minimum setpoint for more than 2 minutes.
h. Superheater protection trip (900° cyclone inlet temperature with steam flow < 10%).
i. Reheat protection trip.
j. Low instrument air pressure.
k. UTR trip.
l. DCIS fault.
m. Emergency boiler trip push buttons pushed.

7.When an MFT occurs, the following actions will take place:

a. Coal feeders in service will trip.
b. Main fuel oil shut off valve will close.
c. SUBs in service will trip.
d. Air master will run back to minimum and reduce all air flows to minimum necessary for purge.
e. Ash drains will trip.
f. Ash re injection will trip.
g. Sootblowers will trip.
h. Limestone feeder will trip.
i. Desuperheater spray water block valve controllers will transfer to manual and output to zero percent (0%).
j. Oxygen trim controller transfers to manual.
k. Boiler master output driven to zero percent (0%)
l. Coal feeder M/A stations outputs driven to zero percent (0%)
m. SUB oil flow controllers outputs driven to zero percent (0%)

8. To start solid fuel flow, the following permissives must be satisfied:

   a. No MFT present.
   b. Bed temperature must be greater than 1000°F
   c. Furnace ready (purge completed) permissive.

      Furnace ready consist of no MFT and one or more of the following:

      * Bed temperature >1400°F or

      * Coal temperature latch with any coal feeder running or

      * Any SUB in service or

      * Furnace purge complete.

   d. Seal air flow greater than minimum.
   e. Windbox pressure greater than minimum.
   f. Conveyor discharge temperature not high.

F. Protective functions:

1. Superheater Protection

   a. Insufficient waterwall cooling.
   b. Insufficient superheater cooling.
   c. Excessive superheater temperature rise.

   If the superheat protection logic is initiated the following actions will occur:

   •An MFT will occur

   •The SA fan inlet vanes will open to 100%

   •The PA inlet vanes will open to 10% open

   •The SA nozzle flow control will go to 100%

2.Reheat Protection

a. If one of the boilers is tripped, the effected boilers reheater will continue to receive and supply steam. The reheat steam flow balancing loop will continue to function. When the differential temperature between hot and cold reheat in the boiler drops to less than 100°F, an alarm will alert the operator to isolate and depressurize the reheater using the Cold and Hot Reheat block valves and drain valves.

If the superheat protection logic is initiated the following actions will occur:

- A boiler MFT will occur.
- Each boiler's cold and hot reheat block valves will automatically close upon a reheater trip protection trip. (SGJ-1001, -2001, -3001, -1020, -2020, and -3020)
- Hot reheat condenser drain valves will automaticaly open. (SGJ-1019, -2019, and-3019)
- The SA fan inlet vanes will open to 100%
- The PA inlet vanes will open to 10% open
- The SA nozzle flow control will go to 100%

G. Alarms:

1. Cyclone inlet/outlet paired alarm	1732°F
2. Steam drum level low	−4"
3. Steam drum level high	+4"
4. Steam drum level transmitter deviation	±3"
5. Steam drum pressure transmitter deviation	±25psig
6. Steam drum metal temperature high	638°F
7. Steam drum metal temperature differential	100°F
8. Steam drum metal to feedwater temperature differ.	200 F
9. Furnace pressure high	+10"wc.
10.ID fan suction low	-23"wc.
11.Instrument air pressure low	70 psig
12.HP blower pressure low	6.2%
14.Excess O2 analyzer low	2.5%
15.Air to fuel ratio low	8.0 : 1
16.PA to windbox flow low	280 psig
13.Excess O2 analyzer deviation	±1.0klb/hr
17.PA windbox pressure low	60"wc.
18.Bed pressure high	30"wc.
19.Bed pressure low	15"wc.

20.Bed temperature thermocouple deviation	100°F
21.Cyclone downcomer temperature high	1700°F
22.Loop seal return leg temperature high	1700°F
23.Bottom ash screw cooler inlet temperature high	1700°F
24.Bottom ash screw cooler outlet temperature high	490°F
25.Limestone feed point temperature high	700°F
26.Limestone blower outlet pressure high	8 psig
27.Limestone blower outlet pressure low	2 psig
28.Coal feeder discharge temperature high	180°F
29.Superheater 1 outlet temperature high	870°F
30.Superheater 2 outlet temperature high	935°F
31.Superheater 3 outlet temperature high	1015°F
32.Superheater 1 metal temperature high	970°F
33.Superheater 2 metal temperature high	990°F
34.Superheater 3 metal temperature high	1040°F
35.Reheater 1 outlet temperature high	850°F
36.Reheater 2 outlet temperature high	1050°F
37.Reheater 1 metal temperature high	1070°F
38.Reheater 2 metal temperature high	1070°F
39.Fan bearing temperature high	190°F
40.Fan motor stator temperature high	120°F
41.Main fuel oil supply pressure low	63 psig
42.Main fuel oil supply pressure high	96 psig
43.Main atomizing medium pressure low	70 psig
44.SUB nozzle atomizing medium pressure low	15 psig
45.SUB atomizing medium pressure low	65 psig
46.SUB oil pressure low	60 psig

START UP PROCEDURE:A.

Prerequisites:

1. All safety valves must be in proper operating condition.

2. Valves located between the steam drum and water column must be locked in the full open position. Steam drum man way openings closed and properly sealed.

3. Control system interlocks checked and operable.

4. All access and observation doors must be closed. Ensure that no work is being performed in the boiler. All equipment, tools and debris have been removed.

5. The demineralized water storage tank and condensate storage tank level should be maintained on the upper half of the tanks, lined up to the unit, and within the chemistry limits for startup.

6. Ample supply of fuel (coal and oil) and limestone must be available.

7. SUB sight glasses and flame detectors must be clean and have purge air in service.

B. Precautions:

1. All equipment subject to thermo expansion must be free of interference.

2. Equipment and system tag outs must be reviewed and/or removed as necessary to support boiler operations.

3. Using downcomer drains above rated pressure/heat input conditions may cause loss of natural circulation in certain sections of the steam generator causing damage or failure of pressure parts. **Do not open any valves on the lower waterwall headers when the boiler is in service.**

4. Do not operate a boiler without calibrated excess air oxygen analyzer(s) in service.

5. Never operate the CFB boiler without any bed material except under special circumstances (acid cleaning, boilout, setting safeties) and never more than 25% rated firing of auxiliary fuel. Never fire solid fuel without adequate bed material inventory.

C. Procedure:

-COLD STARTUP-

1. Position all boiler vents and drains as described in SOP BOILER VENTS AND DRAINS.

2. Fill the boiler using the condensate storage system to about two inches below normal water level. The water should be chemical treated to the proper chemical concentrations and pH for normal boiler operation. Refer to SOP BOILER FEEDWATER SYSTEM.

3. Verify boiler feedwater temperature (economizer outlet) is within 200°F of the steam drum metal temperatures when filling an empty steam drum.

4. Open the economizer inlet feedwater supply block valve.

5. Open boiler fill valve and set up to 10 to 15 percent feedwater flow to the boiler with feedwater controls in manual.

6. Close feedwater control valve when a few inches of water is seen in the steam drum sight glasses. Blow down steam drum sight glasses. Verify water level returns to the steam drum sight glass about where it was before blowdown, and that it corresponds with the remote indication in the control room and at the steam drum level controller.

7. Open the feedwater control valve and slowly add feedwater to the steam drum. Close the feedwater control valve when water level is 2 inches below the normal operating level. **Note:** *Water will expand as it is heated. This is called "swell." You should start with a slightly lower than normal steam drum level during startup.*

8. Prepare the fabric filters for operation, and verify a clear gas path is established, as described in SOP BAGHOUSE OPERATION.Stroke all air flow dampers.

9. Start the ID fan, HP blowers, SA fan, PA fan as described in SOP Primary/Secondary/ID Air Fans.

   Whenever there is a slumped bed in the boiler, and the PA fan is started the operator must increase PA-to-grid air flow above minimum for several minutes to fully fluidize the bed material in the combustion chamber.

10. The boiler must be purged before each cold startup, or following an MFT when the bed temperature is less than 1400°F, or when coal feed trips with less than 1200°F and no startup burners are in service. Start purge and verify purge in progress light goes out, then reset the boiler. The furnace ready light will come on when the purge is complete.

11. Open the cold reheat block valves, (If another boiler is in service wait until there is 1000 psig on the steam drum before opening the cold reheat block valves).Open the steam generator main steam line block valve, and then open the main steam line stop check valve. Drain and warm up the main steam line through the main steam drain valve. Throttle down on the main steam drain lines and allow a small amount of steam flow to continue until turbine synchronization. (If another boiler is in service wait u until there is 1000 psig on the steam drum then warm-up and pressurize the main steam line. Raise the boiler steam pressure of the on coming boiler to within 200°F of the on-line boiler and open the main steam block valve, and the main steam stop check to 10%-15% open. Lower the throttle pressure to below the oncoming boiler pressure (1000 psig). When the oncoming boiler starts delivering steam, open the main steam stop check valve to 100% open, and close the main steam drain and vent valves.)

12. Place the burner fuel oil system in service as described in SOP FUEL OIL SUPPLY, UNLOADING AND STORAGE. Light off SUB's. Maintain firing rate to raise boiler temperature and pressure to be limited between:

    a. 50°F/hr and 100°F/hr change average steam drum metal temperature.
    b. 200°F/hr increase at the hot cyclone inlet.
    c. Drum top to bottom temperature differentail shall not e exceed 100°F.
    d. 900°F maximum design tube metal temperature, until a minimum of 10% steam flow is established through the boiler. Failure to maintain greater than 10% flow when the cyclone inlet flue gas temperature is greater than 900°F will result in an immediate **INSUFFICIENT SUPERHEATER COOLING** alarm, which will be followed by an automatic boiler trip if the 10% flow requirement is not reestablished within two minutes.
    e. When you begin to develop pressure in the steam drum, pressure is limited to 40 psig/hr ramp rate.

13. Close drum vents and superheater/reheater drains as described in SOP BOILER VENTS AND DRAINS.

14. Initiate warming of the auxiliary steam system, (unless there is another boiler in service) and place in service as described in SOP AUXILIARY STEAM SYSTEM.

    Line up pegging steam to the deaerator.

    Place the SCAH system in service as described in SOP BOILER AIR PREHEAT.

15. Open the spray water (desuperheater) supply manual isolation valves and place the steam temperature control system in automatic operation when outlet steam temperatures are within 50°F of the design operating temperatures.

    a. Maintain final outlet steam temperature at least 20°F above saturation temperature and steam flow at or slightly above 10% MCR.

16. Blowdown drum as required to maintain water level in gauge glass. Do not use downcomer drains after steam drum pressure has increased to above 100 psig and/or firing rate heat input above 25% of rated capacity. The continuous and intermittent drum blowdown drain lines must be used when steam drum pressure is above 100 psig and/or firing rate input is above 25% of rated capacity.

17. Adjust reheat flow ratio and place flow balancing in automatic.

    There is no need to bring both superheater and reheater systems on simultaneously during the second or third boiler startup. It will be advantageous to bring the main steam system on line first. Then the reheat system can be brought on line slowly.

    When the boiler is set up to bring the main steam flow to the matching operating steam conditions, the reheat system of the starting boiler will be kept isolated using the main steam stop check valve and the main steam block valve. Until main steam flow from the second boiler to the turbine is established,all reheat steam from the turbine will be going to the operating boiler. After establishing steady main steam conditions, cut in the reheat steam flow as follows:

    a. Keep the reheat bypass and the reheat blance control valves at the closed limits.
    b. Open the main steam stop check valve and the main steam block valve after warming up the lines.
    c. Open the SGJ-1407 reheat flow control (in manual) slowly and establish proportional flow through the on coming boilers reheater.
    d. Place the reheat bypass and flow control valves in automatic.

    Once steady reheat flow conditions are established, raise the load on the on coming boiler proportionately raising the reheat steam flow until the load on both the boilers is matched.

18. Between 100 and 500 psig and if no other boiler(s) are in service, warm reheater as follows:

    a. Partially open bypass around cold reheat block valve.
    b. Open the reheat differentail pressure control valve
    c. Open the hot reheat vent valve. Monitor vent valve. When steam is verified to be escaping through the vent, close the reheater differentail pressure control valve to the 10% open position and slowly open the hot reheat drain valve to the main condenser and close the reheat vent valve.

    CAUTION: When opening the hot reheat drain vavle to the condenser, condenser vacuum should be closely monitored to prevent a loss of vacuum turbine trip.

19. Slowly close the startup pressure control valve while maintaining greater than 10% steam flow until completely closed.

20. Continue to increase the boiler firing rate to reach initail conditions of steam temperature, steam pressure and bed temperature according of the startup curve. Maintain steam temperature above minimum superheat for turbine operations according to turbine operating procedures.

21. Place ash conveyors and ash screw drains in service as described in SOP BED ASH HANDLING AND STORAGE.

22. Begin admission of limestone as required to meet SO_2 restrictions.

23. When bed temperature reaches the solid fuel minimum temperature permissive, 1100°F as indicated by four out of the seven lower bed thermocouples, solid fuel firing can begin. When starting coal feed, always make sure O_2 readings decrease and bed temperatures increase. Begin admission of coal at minimum flow of approximately 10% of MCR feed rate. Before starting solid fuel firing there must be enough bed inventory in the boiler to support heat transfer and maintain the seal in the loop seal.

    a. Place the solid fuel feeder controls in manual.
    b. Open the solid fuel silo isolation slide gates.
    c. Open the feeder seal air manual isolation valves, slightly above the minimum requirements.
    d. Open the solid fuel feeder discharge valves to the combustion chamber.

e. Run the solid fuel system in manual until fuel is present at the discharge end of the solid fuel conveyors at the boiler.
f. Place the BTU compensation controller in manual at 50% output, and remove any bias in the solid fuel feeders controllers.
g. Start the conveyor for the first solid fuel feeder.
h. Start the first fuel feeder in manual and run for a maximum of 90 seconds, stop the feeder for 90 seconds. This is called 'burping or pulsing' the solid fuel feeders. **When starting coal feed, always make sure O_2 readings decrease and bed temperatures increase (at least 15°F).** Burp the fuel system three times. When these results are achieved, leave solid fuel feeders in continuous operation.

24. Start the remaining coal feeders as needed.

25. Slowly decrease the SUB firing rates while increasing the fuel feed rate until the Sub's are at minimum firing rate. Stop the SUB's at 1450-1500°F indicated bed temperature , one at a time as bed temperature continues to increase. As SUB's are shut down they will go through a purge cycle, place them in a standby condition, ready for use as required.

26. Place the coal master in automatic at the operators discretion (note the coal master and the oil master can not be in automatic at the same time).

a. Match individual feeder control outputs to the coal master output.
b. Place feeder controllers in automatic to the coal master.
c. Place the coal master in automatic.
d. Place the fuel master in automatic to the boiler master when load increases to above 40%.
d. Place the boiler master in automatic.
e. When the second boilers boiler master is placed in automatic place the unit master in automatic.

27. Place the oxygen trim control in automatic at < 80% MCR.

Place the bed temperature trim in automatic at > 80% MCR.

28. Place the Limestone feed system in operation depending upon bed requirements or emission limitations as described in SOP LIMESTONE FEED SYSTEM.

29. Place the sootblowing system in service.

30. Initiate a sootblowing cycle when economizer exit flue gas temperature increases 30°F above normal or at lease once every 24 hours to prevent baghouse/ash system overloading, as described in SOP BAGHOUSE OPERATION.

-HOT RESTART-

1. If the combustor bed temperature drops below 1400°F for more than 5 seconds,and no SUB's are in service a steam generator purge is required, and the "COLD STARTUP" procedure will need to be followed. Purge the boiler if the boiler tripped on a MFT. All steps should be accomplished as quickly as possible to avoid reducing bed temperatures.

2. A boiler purge is not required and coal feeders may be started if the bed temperature is in excess of 1400°F.

3. On a hot restart following high load operation (above 80% MCR), it is advised that the superheater and reheater drains be opened. This is done by opening each drain valve and closing the drain valve, one at a time. This is a precaution against condensate collecting in the headers. Superheater and reheater vents are to remain closed.

4. Start SUB's and heat the boiler following the normal startup guidelines.The combustor bed will cool very rapidly once the fans are started, so oil firing equipment should be placed in service before the combustor bed temperature drops to less than 1400°F.

5. Check bed temperatures. When ignition occurs the bed temperatures will rise and the normal solid fuel firing procedures can be followed. When the bed temperature does not rise within three pulses of feeding fuel, stop fuel feed to the boiler. Purge the boiler and resume the normal startup procedures.

6. When bed temperatures fall below 1100°F the fuel feeder start permissive will be lost and startup burners must be used to raise bed temperature above the 1100°F fuel feed permissive interlock.

7. If the fuel feeders trip with the bed temperature greater than 1400°F, the startup burners should be placed in service to maintain bed temperature if required.

8. Increase steam temperature and pressure as required.

9. When firing is stable and steam pressure and temperature reach set points, place all operating coal feeders in automatic Take the oil master to manual and the coal master to automatic. Place the fuel master in automatic when load increases to above 40 percent, place the boiler in automatic.

-FULL FLOW REHEAT BYPASS-

1. Select a boiler (1-A boiler for example) for the FFRB operation during normal operation (prior to a turbine trip) and place the following valves in automatic:

   a. The small reheat stop check valve SGJ-1023.
   b. The FFRB vent valve PSD-1002.
   c. The FFRB isolation valve SGG -1004.
   d. The FFRB control valve SGG-1003.

   The corresponding valves for the boilers not selected for FFRB should be in manual and closed during normal operation (prior to a turbine trip). Upon a turbine trip, these valves will remain closed unless the operator manually opens them.

2. During normal plant operation (prior to a turbine trip):

   a. Place PSD-50 in automatic. When a turbine trip occurs, this valve will automatically close on a reheater protection trip.

3. With the reheat bypass control valve SGG-1003 in automatic the reheater II will maintain up to 500 psig, then increase to 650 psig after the reheater protection has been reset on all three boilers.

4. Close the main steam stop check valve SGG-1001.

5. Reset the MFT and fire the SUB's to produce 1,200 psig at the superheater III outlet. Open PSD-49 when the FFRB piping is sufficiently warmed.

6. Open reheat to process steam isolation valve SGJ-1012 after the reheater pressure exceeds the process steam pressure, **Do not backfeed and overpressurize the reheater from the process steam system.**

   The steam temperature permissive is bypassed and will automatically control temperatures to:

   a. Reheater II outlet temperature 850°F
   b. Superheater II outlet temperature 670°F
   c. Superheater III outlet temperature 750°F

Reheater II outlet pressure approximately 660 psig

7. Close the hot reheat drain valve SGJ-1019.

8. When sufficient flow from FFRB to the process steam system is established, close valves FFRB crosstie drain valve PSD-46, and sky valve PSD-1002.

9. Adjust the boiler master firing rate on the seleceted boiler to maintain 1200 psig on superheater III outlet.

NORMAL SHUTDOWN TO FULL FLOW REHEAT BYPASS OPERATION

1. One boiler will remane on line to provide process steam in the FFRB mode and the other boiler(s) will be brought to a cold shut down.

Unit master control can not be in a turbine follow mode.

1. Select a boiler (1-A boiler for example) for the FFRB operation

2. Verify that the process steam line warm up valve PSD-50 is open and in automatic.

3. Manually open FFRB sky valve PSD-1002.

4. Manually open bypass stop check valve SGJ-1023 (ensure that process steam does not backflow into the reheater.

5. Verify that the extraction steam control valve PSD-8 is in automatic and opens to control steam pressure at 600 psig. When the steam pressure decreases to 590 psig, perform the following:

   a. Transfer the extraction steam control valve PSD-8 to manual Begin to slowly close this valve to shut off the extraction steam supply to the process steam system.
   b. when the extraction steam control valve PSD-8 is 20% open, open the extraction drain valve TEC-2.
   c. When the extraction steam control valve PSD-8 is 10% open, close the extraction steam isolation vallve PSD-1.
   d. Close the process steam extraction manual isolation valve PSD-15.
   e. Open condenser drain valve PSD-19 to drain and depressurize piping.

Continue with normal shutdown procedures to reduce turbine generator load to 25%.

6. Place the boiler master for the selected boiler in manual and reduce to 10% boiler load.

7. When boiler firing rate is stabilized, slowly open main steamsky valve SGG-1007 to full open position.

8. Open the main steam condenser drain valve SGG-1020.

9. When the reheater II outlet steam temperature is below 950°F, manually open SGJ-1019.

10. Manually open FFRB condensate drain valve PSD-46.

11. Close the hot reheat block valve SGJ-1020, and then close the cold reheat block valveSGJ-1001.

12. Place the main steam to reheat desuperheater spray water block valve FWA-1042 and spray water control valve SGG-1006 in automatic.

13. Close the main steam stop check valve SGG-1001 and the close the main steam block valve SGG-1002.

14. Open the main steam to cold reheat isolation valve SGG-1004.

15. Place valve SGG-1003 in manual and open to increase cold reheat pressure to 650 psig, then place valve SGG-1003 in automatic.

16. Open the main steam sky valve SGG-1007 to raise superheater III pressure to 1200 psig, then place in automatic with a set point of 1200 psig.

17. Open FFRB process steam valve PSD-49.

18. Place main steam to process steam control valve PSD-4 in manual.

19. Open hot reheat steam to process steam valve SGJ-1012.

20. Manually close hot reheat condenser drain valve SGJ-1019.

21. Slowly close the FFRB process steam sky valve PSD-1002.

22. Raise the main steam sky valve SGG-1007 set point to 1,400 psig and verify valve SGG-1007 fully closes.

23. Increase the boiler master firing rate to maintain superheater III outlet pressure at 1200 psig while closing the main steam to process steam control valve PSD-4

24. Manually close the following vent and drain valves after the FFRB process steam pressure and temperature have stabilized.

    a. Process steam condenser drain valve PSD-46.
    b. Reheat to process steam warming valve SGJ-1023.

SHUT DOWN PROCEDURE:

A. Prerequisites:

1. Do not exceed Pyropowers recommended cool down rate.

B. Precautions:

1. Verify that the attemperator spray valves have closed (tripped closed)on a boiler trip.

2. Verify that all coal feeders and startup burners are out of service and tripped, and that the fuel oil header safety shutoff valves are tripped.

3. Verify that the Limestone feed system is tripped.

4. During a shutdown, do not allow the steam/water-side pressure to decay quickly. Allow the steam -side pressure to decay naturally by keeping the boiler "bottled up."

5. Try to reduce any rapid temperature declines caused by the air and gas flows.

6. If possible, minimize the number of thermal cycles to eight times a year with an additional eight times during an initial startup phase.

7. During shut down, do not exceed the maximun temperaure differentail of 100°F between the steam drum top and bottom metal temperatures.

C. Procedure:

1. Reduce fuel and air input to reduce boiler load to 50%, and maintain normal bed temperatures.

2. Place the boiler master , solid fuel feed, O_2 trim, bed temperature control and SUB's in manual before stoping the solid fuel feeders.

3. Reduce the solid fuel feed at 10%/minute to 1500°F indicated bed temperature.

4. Blow soot before reducing load below 50% and taking the boiler out of service.

5. Place SUB's in service when bed temperature is less than 1400°F. continue to reduce solid fuel feed to minimum. Maintain steam temperature above 20°F staturation temperature.

   Stop the coal feed and allow the fuel in the bed to burn out. When the excess O_2 increases to double the normal full load rating the air flow can be stopped.

6. Stop the SUB's below 850°F bed temperatures. Continue air flow through the boiler until the bed temperature is less than 750°F.

7. Shut down the fans as discribed in SOP PA, SA, ID, and HP BLOWER.

8. Stop the chemical feed system and continuous blow down system when the boiler feed pump is stopped.

   Operate all ash removal systems until the ash hoppers are empty.

9. Open all superheater and steam drum vents when the steam drum pressure has dropped to about 25 psig. If the boiler is to be drained you can begin at this time, if not fill the boiler with treated water and apply 3-5 psig of nitrogen on drum.

NORMAL OPERATING PROCEDURE:

A. Prerequisites:

1. Air flow must track coal flow in either manual or automatic control to maintain a set excess O_2 value greater than 3.0%

B. Precautions:

1. Operate within trip parametors and safety guide lines.

C. Procedure:

1. Check SO_2, NOx emissions are within standards.

2. Verify proper fluidization of bed material and hot loop circulation,by checking that temperatures are consistent within the hot loop. Check the windbox-to-bed pressure differentail continuously.

3. Blow soot when gas-side pressure differentail increases.

4. Check the bottom ash screws for proper operation and cooling.

5. Check the accuracy and reading of the remote steam drum water level indicators to assure they are reading the same as the local level gauges.

6. Check the accuracy of all exess oxygen analyzers.

7. Check boiler water chemistry on a regular basis and maintain within limits.

8. Check that the attemperating spray system is maintaining steam temperatures to the set point.

9. Have the outside operators check the following:
   a. All rotating equipment for proper lubrication, cooling and vibration.
   b. All pressurized piping for leaks.
   c. Steam drum level sight glasses.
   d. All boiler duct work.
   e. All air fans and dampers.
   f. Flame patterns and color when burners are in service.

D. Routine checks:

1. Have the outside operators check the following:

   a. All rotating equipment for proper lubrication, cooling, and vibration.
   b. All pressurizedsupply piping for leaks.
   c. Steam drum level sight glasses,
   d. All boiler duct work.
   e. All air fans and dampers.
   f. Flame patterns and color when burners are in service.
   g. And all other associated equipment.

MAINTENANCE:

A. Safety tag list - Electrical:

1.I.D. FAN-1A-ICCE-FAN-1A-1APA-SWG-1
2.P.A. FAN-2A-ISGB-FAN-2A-IAPA-SWG-1
3.S.A. FAN-1A-ISGB-FAN-1A-IAPA-SWG-1

1.I.D. FAN-1B-ICCE-FAN-1B-IAPA-SWG-2
2.P.A. FAN-2B-ISGB-FAN-2B-IAPA-SWG-2
3.S.A. FAN-1B-ISGB-FAN-1B-IAPA-SWG-2

1.I.D. FAN-IC-ICCE-FAN-1C-IAPA-SWG-3
2.P.A. FAN-2C-ISGB-FAN-2C-IAPA-SWG-3
3.S.A. FAn-1C-ISGB-FAN-1C-IAPA-SWG-3

H.P. BLOWERS

1.1SGB-BL-1A1-STM.GEN.-1A-H.P.BLOWER-IAPA-MCC-121
2.1SGB-BL-1A2-STM.GEN.-1A-H.P.BLOWER-IAPA-MCC-121

1.1SGB-BL-1B1-STM.GEN.-1B-H.P.BLOWER-IAPA-MCC-221
2.1SGB-BL-1B2-STM.GEN.-1B-H.P.BLOWER-IAPA-MCC-221

1.1SGB-BL-1C1-STM.GEN.-1C-H.P.BLOWER-IAPA-MCC-321
2.1SGB-BL-1C2-STM.GEN.-1C-H.P.BLOWER-IAPA-MCC-321

COAL FEEDERS

1.1SGH-FDR-3A1-STM.GEN.1A-COAL FDR.-3A1-ISOL.XFMR IAPA-MCC-113
2.1SGH-FDR-3A2-STM.GEN.1A-COAL FDR.-3A2-ISOL.XFMR IAPA-MCC-113
3.1SGH-FDR-3A3-STM.GEN.1A-COAL FDR.-3A3-ISOL.XFMR IAPA-MCC-113
4.1SGH-FDR-3A4-STM.GEN.1A-COAL FDR.-3A4-ISOL.XFMR IAPA-MCC-113

1.1SGH-FDR-3B1-STM.GEN.1B-COAL FDR.-3B1-ISOL.XFMR.IAPA-MCC-213
2.1SGH-FDR-3B2-STM.GEN.1B-COAL FDR.-3B2-ISOL.XFMR.IAPA-MCC-213
3.1SGH-FDR-3B3-STM.GEN.1B-COAL FDR.-3B3-ISOL.XFMR.IAPA-MCC-213
4.1SGH-FDR-3B4-STM.GEN.1B-COAL FDR.-3B4-ISOL.XFMR.IAPA-MCC-213

1.1SGH-FDR-3C1-STM.GEN.1C-COAL FDR.-3C1-ISOL.XFMR.IAPA-MCC-323
2.1SGH-FDR-3C2-STM.GEN.1C-COAL FDR.-3C2-ISOL.XFMR.IAPA-MCC-323
3.1SGH-FDR-3C3-STM.GEN.1C-COAL FDR.-3C3-ISOL.XFMR.IAPA-MCC-323
4.1SGH-FDR-3C4-STM.GEN.1C-COAL FDR.-3C4-ISOL.XFMR.IAPA-MCC-323

ASH CONVEYORS

1.1ASA-CVY-1A1-STM.GEN.-1A-ASH CONVEYOR-1A1-IAPA-MCC-113
2.1ASA-CVY-1A2-STM.GEN.-1A-ASH CONVEYOR-1A2-IAPA-MCC-113

1.1ASA-CVY-1B1-STM.GEN.-1B-ASH CONVEYOR-1B1-IAPA-MCC-213
2.1ASA-CVY-1B2-STM.GEN.-1B-ASH CONVEYOR-1B2-IAPA-MCC-213

LIMESTONE BLOWERS

1.1SGH-BL-1A1-STM.GEN.-1A-LIMESTONE BLOWER-IAPA-MCC-121
2.1SGH-BL-1A2-STM.GEN.-1A-LIMESTONE BLOWER-IAPA-MCC-122

1.1SGH-BL-1B1-STM.GEN.-1B-LIMESTONE BLOWER-IAPA-MCC-221
2.1SGH-BL-1B2-STM.GEN.-1B-LIMESTONE BLOWER-IAPA-MCC-222

1.1SGH-BL-1C1-STM.GEN.-1C-LIMESTONE BLOWER-IAPA-MCC

CONVEYOR

1.ICHD-CVY-5-COAL CONVEYOR-5-IAPA-MCC-323
2.ICHD-CVY-6-COAL CONVEYOR-6-IAPA-MCC-323

FLUIDIZING AIR BLOWER

1.IASA-BL-2A-F.F. FLUIDIZING BLOWER-2A-IAPA-MCC-122
2.IASA-BL-2B-F.F. FLUIDIZING BLOWER-2B-IAPA-MCC-222

B. Safety tag list - Mechanical:

1. MANUAL ISOLATION-FUEL OIL-1005-2005-3005
2. I.D. FAN MANUAL DISCHARGE DAMPER
3. CONTROL AIR TO SUB'S
4. KNIFE GATE ON COAL SILO'S
5. H.P. BLOWER DISCHARGE VALVE
6. DISCHARGE VALVE ON LIMESTONE BLOWER
7. BED ASH DISCHARGE VALVE
8. ASH REINJECTION VALVE
9. FIBER WASTE CONVEYOR

CEDAR BAY GENERATING CO. TITLE V APPLICATION: CB04

Facility Supplemental Information: **Operation and Maintenance Plan**

L. EU Supplemental Information

Operation and Maintenance Plan

PSD-FL-137 under Specific Conditions II. C.9. requires CBGP to have procedures to monitor emission control efficiency and to return malfunctioning equipment to proper operation as expeditiously as possible. Information on unit specifications and operating procedures have been submitted to Agencies as required PSD construction and engineering data. CBGP has continued the development of detailed procedures (SOPs) for operation, inspection, data collection and scheduled maintenance of emission control units and associated plant equipment according to manufacture's specifications and Plant operating experience. These SOPs cover several hundred pages and are available to Agencies upon request.

Under PSD permit conditions and 40 CFR Part 60 rules (Subpart Da), CBGP also reports quarterly on equipment malfunctions, excess emissions and CEMS availability. Control equipment malfunctions represent less than one percent than all operating hours and CEMS availability is close to 99 percent of operating hours: these figures represent the effectiveness of CBGP's O&M program.

Emission Units:	Equipment Regulated Under Title VI.
List of Sources have 50 lbs. or more refrigerant (R-22)	

Services Building
Manufacturer: Carrier
Model # 38AK0286001 Serial No. 4492F23202
Refrigerant approximately 50 lb.

Control / Computer Room, Main Unit & Backup Unit
Manufacturer: Carrier
Model # 38AK0346001 Serial No. # 4492F23209
Refrigerant approximately 75 lb.

Type Carrier
Model # 38AK0346001 Serial No 4492F23208
Refrigerant approximately 75 lb.

Pelletizer Control Room
Manufacturer: Carrier
Model # 38AK024600 Serial No. 0593F32225
Refrigerant approximately 60 lb.