JEA NORTHSIDE GENERATING STATION



Title V Modification Application

August 2002





August 7, 2002

WATER

SEWER

Mr. Scott Sheplak, P.E. Administrator Bureau of Air Regulation Division of Air Resources Management Florida Department of Environmental Protection ELECTRIC 2600 Blair Stone Road Tallahassee, FL 32399-2400

RECEIVED

AUG 09 2002

BUREAU OF AIR REGULATION

RE: Northside Generating Station Title V Permit No. 0310045-008-AV Request for Permit Revision

Dear Mr. Sheplak:

Enclosed please find an original and four (4) copies of the Title V permit revision application to incorporate the circulating fluidized bed boilers (CFBs) Units 1 and 2 into the Northside Generating Station Title V permit.

We are including information related to Unit 1 even though stack testing has not yet been completed rather than submitting a separate permit revision application for this unit. Stack test results will be provided to the Department as soon the information becomes available.

If you have any questions regarding this submittal, please call me at (904) 665-6247.

Sincerely,

N. Bert Gianazza, P.E.

Environmental Assessments

& Permitting

Enclosures

115

Steve Pace, P.E., RESD cc:

Chris Kirts, P.E., DEP-NED



Department of Environmental Protection RECEIVED

Division of Air Resources Management

AUG 09 2002

APPLICATION FOR AIR PERMIT - TITLE V SOURCE

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

BUREAU OF AIR REGULATION

I. APPLICATION INFORMATION

Identification (of Facility
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1. Facility Owner/Company Name: JI	EA		
2. Site Name: Northside Generating S	Station/S	t. John's River Po	ower Park
3. Facility Identification Number: 031	10045	-	[] Unknown
4. Facility Location: Street Address or Other Locator: 4	1377 Hec	ekscher Drive	
City: Jacksonville C	ounty: I	Duval	Zip Code: 32226
5. Relocatable Facility? [] Yes [X] No		6. Existing Per [X] Yes	mitted Facility? [] No
Application Contact			
Name and Title of Application Con Group Application Contact Mailing Address		rt Gianazza - En	vironmental Health & Safety
Application Contact Mailing Addre Organization/Firm: JEA	SS.		
Street Address: 21 West Church St	reet		
City: Jacksonville	Sta	ate: Florida	Zip Code: 32202
3. Application Contact Telephone Nur	nbers:		
Telephone: (904)665-6247		Fax: (904)6	665-7376
Application Processing Information (DEP Us	<u>se)</u>	
1. Date of Receipt of Application:			
2. Permit Number:	-		
3. PSD Number (if applicable):	-		
4. Siting Number (if applicable):			

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Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one) Initial Title V air operation permit for an existing facility which is classified as a Title V source. Initial Title V air operation permit 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: [X] Title V air operation permit revision to address one or more newly constructed or modified emissions units addressed in this application. Current construction permit number: PSD-FL-265 and PSD-FL-265A Operation permit number to be revised: 0310045-003-AV Title V air operation permit revision or administrative correction to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. (Also check Air Construction Permit Application below.) Operation permit number to be revised/corrected: Title V air operation permit revision 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 number to be revised: Reason for revision: **Air Construction Permit Application** This Application for Air Permit is submitted to obtain: (Check one) Air construction permit to construct or modify one or more emissions units. Air construction permit to make federally enforceable an assumed restriction on the

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Effective: 2/11/99

potential emissions of one or more existing, permitted emissions units.

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

Owner/Authorized Representative or Responsible Official

- 1. Name and Title of Owner/Authorized Representative or Responsible Official: James M. Chansler, P.E., D.P.A. Vice President, Operations and Maintenance
- 2. Owner/Authorized Representative or Responsible Official Mailing Address:

Organization/Firm: JEA

Street Address: 21 West Church Street

City: Jacksonville

State: Florida

Zip Code: 32202

3. Owner/Authorized Representative or Responsible Official Telephone Numbers:

Telephone: (904) 665 - 4433

Fax: (904) 665 - 7990

4. Owner/Authorized Representative or Responsible Official Statement:

I, the undersigned, am the owner or authorized representative*(check here [], if so) or the responsible official (check here [X], if so) 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

Daté

Professional Engineer Certification

1. Professional Engineer Name: Bert Gianazza

Registration Number: 38640

2. Professional Engineer Mailing Address:

Organization/Firm: JEA Tower 9 Street Address: 21 W Church St

City: Jacksonville

State: FL

Zip Code: 32202

3. Professional Engineer Telephone Numbers:

Telephone: (904) 665 - 6247

Fax: (904) 665 - 7376

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^{*} Attach letter of authorization if not currently on file.

4. Professional Engineer Statement:

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

- (1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and
- (2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

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

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

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

Signature

(seal)

No. 38640

* Attach any exception to certification statement

STATE OF

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Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
026	NGS – Circulating Fluidized Bed Boiler No. 2	NA	NA
027	NGS – Circulating Fluidized Bed Boiler No. 1	NA	NA
028	NGS – Materials Handling & Storage Operations	NA	NA
029	NGS – Crusher Building Baghouse Exhaust (DC1)	NA	NA
031	NGS – Fuel Silo Dust Collectors (DC2 and DC3)	NA	NA
033	NGS – Limestone Dryer/Mills	NA	NA
034	NGS – Limestone Prep Building Dust Collectors	NA	NA
035	NGS – Limestone Silo Bin Vent Filters	NA	NA
036	NGS – Fly Ash Transport Blower Discharge	NA	NA
037	NGS – Fly Ash Silo Bin Vents	NA	NA
038	NGS – Bed Ash Silo Bin Vents	NA	NA
042	NGS – AQCS Pebble Lime Silo Bin Vent	NA	NA
051	NGS – Fly Ash Slurry Mix System Vent	NA	NA
052	NGS – Bed Ash Slurry Mix System Vent	NA	NA
053	NGS – Bed Ash Surge Hopper Bin Vents	NA	NA
054	NGS – Limestone Feed System Vent Filter Exhaust	NA	NA

Application Processing Fee



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Construction/Modification Information

1. Description of Proposed Project or Alterations:

This application for revision to the Title V permit is associated with construction conducted under construction permit PSD-FL-265 and the application for construction permit PSD-265. Revisions to construction permit PSD-FL-265 are included in construction permit PSD-FL-265A. For the material handling and storage operations covered under emissions unit 028, the base case scenario rather than the Alternative #1 scenario, as presented in the construction permit application was used. Therefore, emission units identified with the Alternate 1 scenario are not included in this application. The as-built facility differs from the construction permit application as follows:

- Conveyors D-10, D-11, D-12, D-13 and D-14 and new transfer towers #1A, 2A, 3A and 4A (all included as part of EU028g) were not constructed and are not included in this application.
- Two enclosed coal/pet coke storage structures (EU028h), instead of one, were installed. Because permit PSD-FL-265 limits the annual coal/pet coke handling and usage rate, this change will not affect emission estimates.
- Loading to the limestone storage pile (EU028d) is by telescopic chute rather than with a lowering well.
- Emission points for new coal/pet coke and limestone unloading and handling operations at St. John's River Power Park (SJRPP) facility (EU028b, EU043, EU044 and EU045) included in the application for permit PSD-FL-265 base case scenario were not constructed and are not included in this application.
- The application for permit PSD-FL-265 gave alternative emission control strategies for the CFB boilers (EU026 and EU027). The control strategy used is a lime slurry spray dryer absorber followed by a baghouse (discussed in Section III of this application).
- Dust collectors were installed on the limestone feed system. These are given a proposed emission unit designation of 054 in this application.
- JEA requests that the naming of some of the emission units be changed to match the nomenclature being used by the Facility. Any such requests are called out in Section III for the respective emission units.
- 2. Projected or Actual Date of Commencement of Construction:
- 3. Projected Date of Completion of Construction: December 2002

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Application Comment

This application is for a revision to the facility's Title V operating permit to include Circulating Fluidized Bed (CFB) Boiler No. 2, CFB Boiler No. 1 and ancillary equipment. CFB Boiler No. 2 (EU026) was constructed by repowering old Boiler No. 2 (EU002) and CFB Boiler No. 1 (EU027) was constructed by repowering old Boiler No. 1 (EU001). Emissions unit identification numbers EU002 and EU001, which are used to track baseline data for old NGS Boiler No. 2 and Boiler No. 1, respectively, are no longer active point numbers. Ancillary equipment includes coal, pet coke, limestone, lime, bed ash and fly ash handling, processing and storage equipment.

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II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1.	Facility UTM Coor	dinates:		
	Zone: 17	East (km)	: 446.70 Nor	th (km): 3365.10
2.	Facility Latitude/Lo	ongitude:		
	Latitude (DD/MM/	SS): 30/25/51	Longitude (DD/MN	M/SS): 81/33/3
3.	Governmental	4. Facility Status	5. Facility Major	6. Facility SIC(s):
	Facility Code:	Code:	Group SIC Code:	
	4	A	49	4911
7.	Facility Comment (limit to 500 characters):		

Facility Contact

1. Name and Title of Facility Contact: Bert Gianazza – Environmental Services

Zip Code: 32202

2. Facility Contact Mailing Address:

Organization/Firm: JEA

Street Address: 21 West Church Street

City: Jacksonville State: Florida

3. Facility Contact Telephone Numbers:

Telephone: (904) 665-6247 Fax: (904) 665-7376

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Facility Regulatory Classifications

Check all that apply:

1. [] Small Business Stationary Source? [] Unknown
2. [X] Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?
3. [] Synthetic Minor Source of Pollutants Other than HAPs?
4. [X] Major Source of Hazardous Air Pollutants (HAPs)?
5. [] Synthetic Minor Source of HAPs?
6. [X] One or More Emissions Units Subject to NSPS?
7. [] One or More Emission Units Subject to NESHAP?
8. [X] Title V Source by EPA Designation?
9. Facility Regulatory Classifications Comment (limit to 200 characters):

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject.	
Facility-wide applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference.	

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B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap		4. Basis for Emissions	5. Pollutant Comment		
Emitted	Ciassii.	lb/hour	tons/year	Cap	Comment		
CO	A						
NOX	A		3,600	Construction Permit No. PSD-FL- 265A	Annual emissions cap is for Units 1, 2, and 3 combined		
PM	A		881	Construction Permit No. PSD-FL- 265A	Annual emissions cap is for stack emissions from Units 1, 2, and 3 combined.		
PM10	A						
SO2	A		12,284	Construction Permit No. PSD-FL- 265A	Annual emissions cap is for Units 1, 2, and 3 combined		
VOC	A						
PB	В						
H114	В						
SAM	В						
H107	В						
H106	A						
HAPS	A						

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C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

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

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Additional Supplemental Requirements for Title V Air Operation Permit Applications

List of Proposed Insignificant Activities: [X] Attached, Document ID:Attachment F [] Not Applicable
9. List of Equipment/Activities Regulated under Title VI:
[X] Attached, Document ID:Attachment G
[] Equipment/Activities On site but Not Required to be Individually Listed
[] Not Applicable
10. Alternative Methods of Operation: [X] Attached, Document ID:Attachment H [] Not Applicable
11. Alternative Modes of Operation (Emissions Trading):
[] Attached, Document ID: [X] Not Applicable
12. Identification of Additional Applicable Requirements: [X] Attached, Document ID: Attachment I [] Not Applicable
13. Risk Management Plan Verification:
[X] Plan previously submitted to Chemical Emergency Preparedness and Prevention Office (CEPPO). Verification of submittal attached (Document ID: Attachment J) or previously submitted to DEP (Date and DEP Office:)
[] Plan to be submitted to CEPPO (Date required:)
[] Not Applicable
14. Compliance Report and Plan: [X] Attached, Document ID:Attachment K [] Not Applicable
15. Compliance Certification (Hard-copy Required):[X] Attached, Document ID: Attachment L [] Not Applicable

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Emissions	Unit	Infor	mation	Section	1	of	16	

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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 (All Emissions Units)

Emissions Unit Description and Status

1.	Type of Emission	ns Unit Addressed in Thi	s 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).							
]	process or prod		on addresses, as a single emis es which has at least one defin gitive 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.							
2.	Regulated or Unr	egulated Emissions Unit	? (Check one)					
	[X] The emissions emissions unit.	unit addressed in this Em	nissions Unit Information Sec	ction is a regulated				
[] The emissions emissions unit.	unit addressed in this En	nissions Unit Information Sec	ction is an unregulated				
3.	•	missions Unit Addressed ng Fluidized Bed Boiler N	in This Section (limit to 60 o	characters):				
4.	Emissions Unit Id ID: 026	dentification Number:		[] No ID [] ID Unknown				
5.	Emissions Unit Status Code:	6. Initial Startup Date: Feb. 11, 2002	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit?				
9.	repowered in considentification num	struction of NGS Circula	Characters) Old NGS Boiler ating Fluidized Bed Boiler Ned to track baseline data for ober.	o. 2. Emissions unit				

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Emi	ssions	Unit	Informa	tion S	Section	1	of	16
CIIII	2210112	UIIII	IIIIVI IIIA	เมษม ธ	ecnon	1	UI	- 1

Emissions Unit Control Equipment

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

Initial sulfur dioxide (SO₂) control is achieved through limestone injection into the circulating fluidized bed (CFB) boiler. The limestone will calcine to form lime (CaO) which reacts with the SO₂ in the combustion gas to form calcium sulfite (CaSO₃) or calcium sulfate (CaSO₄). Further SO₂ control is achieved using an add-on lime slurry spray dryer absorber, where calcium in the lime slurry will react with SO₂ remaining in the flue gas.

Particulate matter (PM) consisting of flyash, the SO_2 control reaction products and unreacted lime is controlled using a fabric filter dust collector downstream of the spray dryer. Selective non catalytic reduction (SNCR) is used to reduce oxides of nitrogen (NO_x) emissions by reacting ammonia with NO_x to form molecular nitrogen and water.

2. Control Device or Method Code(s): 041, 013, 018, and 107

Emissions Unit Details

1.	Package Unit:			
	Manufacturer:	Model Number:		
2.	Generator Nameplate Rating: 297.5	MW		
3.	Incinerator Information: Not applicable			
	Dwell Temperature:		°F	
	Dwell Time:		seconds	
	Incinerator Afterburner Temperature:		$^{\circ}\mathrm{F}$	

Emissions Unit Information Section 1 of	ons Unit Information Section 1 of 1	16
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B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate: 2,	764	mmBtu/hr
2.	Maximum Incineration Rate:	lb/hr	tons/day
3.	Maximum Process or Through	put Rate:	
4.	Maximum Production Rate:		
5.	Requested Maximum Operatin	g Schedule:	
		24 hours/day	7 days/week
		52 weeks/year	8,760 hours/year
6.	Operating Capacity/Schedule C	Comment (limit to 200 characters):	

	Emissions	Unit Information Section	1	of	16	
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C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject.	
Applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference.	
	·

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	Emissions	Unit Infor	mation	Section	1	of	16	
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D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

Identification of Point on Pl Flow Diagram? EU026	ot Plan or	Plan or 2. Emission Point Type Code: 1					
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):							
While NGS – Circulating Fl	4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: While NGS – Circulating Fluidized Bed Boiler No. 2 (EU026) shares a common stack with NGS – Circulating Fluidized Bed Boiler No. 1 (EU027), the common stack contains two separate flues, one for each CFB boiler						
5. Discharge Type Code: 6. Stack Height: 7. Exit Diameter:							
V	495	feet	15.0	feet			
8. Exit Temperature: 144°F (approx) 9. Actual Volumetric Flow Rate: 700,300 (approx) acfm 10. Water Vapor: %							
11. Maximum Dry Standard Flow Rate: dscfm 12. Nonstack Emission Point Height: feet							
13. Emission Point UTM Coord	linates:						
Zone: 17 East (km): 446.670 North (km): 3,365.070							
 14. Emission Point Comment (limit to 200 characters): Fields 10 and 11 were not completed because this emissions unit is not subject to a grain loading standard. NGS – Circulating Fluidized Bed Boiler No. 2 (EU026) shares a common stack with NGS – Circulating Fluidized Bed Boiler No. 1 (EU027). The common stack contains two separate flues, one for each CFB boiler. 							

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Emissions	Hnit Infor	mation Section	1	οf	16	
rmissions	Unit Intol	mation Section	l l	01	10	

E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Rate:	Segment	1	of	5

Segment Description (Process/Fuel Type) (limit to 500 characters): Coal used in Circulating Fluidized Bed Boiler No. 2						
2. Source Classification Cod	e (SCC):	3. SCC Units:				
10100218				ons Burned		
4. Maximum Hourly Rate:	5. Maximum A		6.	Estimated Annual Activity		
138.20 (approx)	1,210,632	_		Factor:		
7. Maximum % Sulfur: 8	8. Maximum 9	% Ash:	9.	1		
10. Segment Comment (limit	to 200 characters	·		20 (approx)		
10. Segment Comment (mint	to 200 characters	<i>)</i> .				
Segment Description and Rate: Segment2_ of5_						
	1. Segment Description (Process/Fuel Type) (limit to 500 characters):					
Petroleum coke used in Circulating Fluidized Bed Boiler No. 2						
2 Saura Classification Cod	· (CCC).	3. SCC Units				
2. Source Classification Code 10100299	e (SCC):	3. See Onits		Tons Burned		
4. Maximum Hourly Rate:	5. Maximum A	Annual Rate:	6.	Estimated Annual Activity		
101.9 (approx)	892,644 ((approx)	_	Factor:		
7. Maximum % Sulfur:	8. Maximum %	% Ash:	9.	Million Btu per SCC Unit:		
8.00		_		27.12 (approx)		
10. Segment Comment (limit t	•					
combustion boilers – electric g	•			<u>-</u>		
fluidized bed combustion: circ because a SCC number for con	•	-				
occause a see number for cor	noustion of petro	Journ Core was	.,01	iouna.		

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Emissions Unit Information Section	1	of	16
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E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Rate: Segment3_ of5_						
Segment Description (Process/Fuel Type) (limit to 500 characters): Coal and Petroleum coke blend used in Circulating Fluidized Bed Boiler No. 2						
2. Source Classification Cod	e (SCC):	3. SCC Unit	s:			
10100299 Tons Burned						
4. Maximum Hourly Rate:	5. Maximum A		6.	Estimated Annual Activity		
138.20 (approx)	1,210,632			Factor:		
7. Maximum % Sulfur: 8	8. Maximum %	% Ash:	9.	Million Btu per SCC Unit: 20 (approx)		
10. Segment Comment (limit	to 200 characters)):				
	,					
Segment Description and Ra	ite: Segment	4 of5				
Segment Description (Proc	cess/Fuel Type) (limit to 500 cha	arac	ters):		
Natural gas including land	fill gas used in Ci	irculating Fluid	ized	Bed Boiler No. 2 (for		
startup only).						
2 0 0 0	(0.00)	2 00011.4				
2. Source Classification Code 10100299	e (SCC):	3. SCC Units		cubic feet burned		
4. Maximum Hourly Rate:	5. Maximum A		_	Estimated Annual Activity		
0.31 (approx)		15.60 (approx)		Factor:		
7. Maximum % Sulfur:	8. Maximum %	6 Ash:	9.	Million Btu per SCC Unit:		
2 gr/100scf				1,000 (approx)		
10. Segment Comment (limit t	,	:				
Natural gas is to be used for st	artup only.					

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Emissions Unit Information Section1 of16					
E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units) Segment Description and Rate: Segment5 of5					
Segment Description (Prod Distillate oil used in Circu		•	•		
2. Source Classification Code	e (SCC):	3. SCC Unit	s:		
10100299		Thousand gal	lons burned		
4. Maximum Hourly Rate:	5. Maximum A	Innual Rate:	6. Estimated Annual Activity		
2.26 (approx)	113 (ap	prox)	Factor:		
7. Maximum % Sulfur:	8. Maximum %	6 Ash:	9. Million Btu per SCC Unit:		
0.05 (approx)			140 (approx)		
10. Segment Comment (limit t	o 200 characters)	:			
Distillate oil is to be used for s	tartup only.				

20

F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
CO	Device Code	Device code	EL EL
NO _X	107		EL
PM	018		EL
PM ₁₀	018		EL
$\overline{\mathrm{SO}_2}$	041	013	EL
VOC			EL
H114	013	018	EL
PB	018		EL
SAM	041	013	EL
H107	013		EL
H106	013		NS
HAPS			NS
_			
	<u> </u>		
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Emissions Unit Information Section	1	_ of	16_	
Pollutant Detail Information Page	1	of	13	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

(Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions		
1. Pollutant Emitted: CO	2. Total Percent Efficient	ency of Control:
3. Potential Emissions: 350 lb/hour	1,533 tons/year	4. Synthetically Limited? []
5. Range of Estimated Fugitive Emissions:	to to	ns/year
6. Emission Factor: 350 lb/hr	· · ·	7. Emissions
Reference: Construction permit PSD-	FL-265	Method Code:
The CO emissions limit of 350 lb/hour on a 24-lis set by construction permit PSD-FL-265. The CO emissions limit of 1,533 tons/year is set 9. Pollutant Potential/Fugitive Emissions Com	t by construction permit I	PSD-FL-265.
7. Tollatan Tolentan agitive Emissions Com		ice of
Allowable Emissions Allowable Emissions	_1 of2	
Basis for Allowable Emissions Code: OTHER	2. Future Effective Da Emissions:	ate of Allowable
3. Requested Allowable Emissions and Units: 350 lb/hr (24-hour block average)	4. Equivalent Allowa	
	350 lb/hour	1,533 tons/year
5. Method of Compliance (limit to 60 character will be demonstrated using CEMS.	rs): Compliance with the	CO emission limits
6. Allowable Emissions Comment (Desc. of O The CO emissions limit along with compliance construction permit PSD-FL-265.		•

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Emissions Unit Information Section1	of	16		
Pollutant Detail Information Page2	of	13		
G. EMISSIONS UNIT POLLUT	CANT	DETAIL INFORMATION		
(Regulated En				
Emissions-Limited and Precons	truction	on Review Pollutants Only)		
Allowable Emissions Allowable Emissions	2	of2		
Basis for Allowable Emissions Code: OTHER		Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:	4. I	Equivalent Allowable Emissions:		
1,533 tons per year		lb/hour 1,533 tons/year		
5. Method of Compliance (limit to 60 characters): Compliance with the annual CO emissions limit will be demonstrated by summing the hourly CO emission rate data from the CEMS.				
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): The CO emissions limit along with compliance determination requirements are included in construction permit PSD-FL-265.				

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Emissions Unit Information Section	1	_ of _	16_	
Pollutant Detail Information Page	3	of	13	

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions		
1. Pollutant Emitted: NO _X	2. Total Percent Efficie	ency of Control:
3. Potential Emissions: 249 lb/hour	1,090 tons/year	4. Synthetically Limited? []
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3	to to	ns/year
6. Emission Factor: 0.09 lb/mmBtu Reference: Construction permit PSD-F	FL-265	7. Emissions Method Code: 0
The NO _x Emissions limit of 0.09 lb/mmBtu is so The heat input rate to EU026 is 2,764 mmBtu/h Hourly NO _x emissions rate = $(0.09 \text{ lb/mmBtu})(2 \text{ Annual NO}_x \text{ emissions rate} = (0.09 \text{ lb/mmBtu})(2 \text{ mmBtu})(2 \text{ mmBtu})(3 \text{ mmBtu})(4 mm$	r. 2,764 mmBtu/hr) = 249 lt	o/hr
9. Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 charac	ters):
Allowable Emissions Allowable Emissions	_1 of1	
Basis for Allowable Emissions Code: OTHER	2. Future Effective Da Emissions:	ate of Allowable
3. Requested Allowable Emissions and Units: 0.09 lb/mmBtu on a 30-day rolling average	4. Equivalent Allowal 249 lb/hour	
5. Method of Compliance (limit to 60 character will be demonstrated using CEMs.	rs): Compliance with the	NO _x emission limit
6. Allowable Emissions Comment (Desc. of Op The NO _x emissions limit along with compliance construction permit PSD-FL-265. The NO _x emi basis.	determination requireme	ents are included in

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Emissions Unit Information Section	1	_ of _	16	
Pollutant Detail Information Page	4	_ of _	13	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

(Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions			
1. Pollutant Emitted: PM	2. Total Percent Efficiency of Control:		
3. Potential Emissions: 30 lb/hour	133 tons/year	4. Synthetically Limited? []	
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3	toto	ns/year	
6. Emission Factor: 0.011 lb/mmBtu Reference: Construction permit PSD-F	FL-265	7. Emissions Method Code: 0	
8. Calculation of Emissions (limit to 600 chara The PM Emissions limit of 0.011 lb/mmBtu is s The heat input rate to EU026 is 2,764 mmBtu/h Hourly PM emissions rate = (0.011 lb/mmBtu)(2 Annual PM emissions rate = (0.011 lb/mmBtu)(2 = 133 ton/yr	et by construction permit r. 2,764 mmBtu/hr) = 30 lb/ 2,764 mmBtu/hr)(8,760 l	/hr nr/yr)(ton/2,000 lb) =	
<u>Allowable Emissions</u> Allowable Emissions	_1 of1		
Basis for Allowable Emissions Code: OTHER	2. Future Effective Da Emissions:	ite of Allowable	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowab	ole Emissions:	
0.011 lb/mmBtu based on a 3-hour average	30 lb/hour	133 tons/year	
5. Method of Compliance (limit to 60 character compliance tests while firing coal and while firing Compliance testing while firing petroleum coke years of operation and then annually thereafter.6. Allowable Emissions Comment (Desc. of Operation 2015)	ng petroleum coke were c will be conducted quarte perating Method) (limit to	conducted. rly for the first two 200 characters):	
The PM emissions limit along with compliance construction permit PSD-FL-265.			

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Emissions Unit Information Section	1_	_ of _	16	
Pollutant Detail Information Page	5	_ of	13	
G. EMISSIONS UNIT	POLLU	JTAN	T DETA	IL

INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions			
1. Pollutant Emitted: PM ₁₀	2. Total Percent Efficie	ency of Control:	
3. Potential Emissions: 30 lb/hour	133 tons/year	4. Synthetically Limited? []	
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3	to to	ns/year	
6. Emission Factor: 0.011 lb/mmBtu		7. Emissions	
Reference: Construction permit PSD-F	0-FL-265 Method Code:		
The PM ₁₀ Emissions limit of 0.011 lb/mmBtu is The heat input rate to EU026 is 2,764 mmBtu/h Hourly PM ₁₀ emissions rate = (0.011 lb/mmBtu Annual PM ₁₀ emissions rate = (0.011 lb/mmBtu = 133 ton/yr 9. Pollutant Potential/Fugitive Emissions Comm	r.)(2,764 mmBtu/hr) = 30)(2,764 mmBtu/hr)(8,760	lb/hr) hr/yr)(ton/2,000 lb)	
Allowable Emissions Allowable Emissions	_lof1		
Basis for Allowable Emissions Code: OTHER	2. Future Effective Da Emissions:		
3. Requested Allowable Emissions and Units:	4. Equivalent Allowal	ole Emissions:	
0.011 lb/mmBtu based on a 3-hour average	30 lb/hour	133 tons/year	
5. Method of Compliance (limit to 60 character compliance tests while firing coal and while firing Compliance testing while firing petroleum coke	ng petroleum coke were owill be conducted annua	conducted. lly thereafter.	
6. Allowable Emissions Comment (Desc. of Op The PM ₁₀ emissions limit along with compliance construction permit PSD-FL-265.	_		

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Pollutant Detail Information Page	6	of	13	_
				_

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

(Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

rotential/rugitive Emissions				
1. Pollutant Emitted: SO ₂	2. Total Percent Efficie	ency of Control:		
3. Potential Emissions: 553 lb/hour	1,816 tons/year	4. Synthetically Limited? []		
5. Range of Estimated Fugitive Emissions:				
[]1 []2 []3	to to:	ns/year		
6. Emission Factor: 0.20 lb/mmBtu and 0.15 lb	b/mmBtu	7. Emissions		
Reference: Construction permit PSD-F	FL-265	Method Code: 0		
8. Calculation of Emissions (limit to 600 characters): The SO ₂ Emissions limits of 0.20 lb/mmBtu (24-hour block average) and 0.15 lb/mmBtu (30-day rolling average) are set by construction permit PSD-FL-265. The heat input rate to EU026 is 2,764 mmBtu/hr. Hourly SO ₂ emissions rate (24-hour average) = (0.20 lb/mmBtu)(2,764 mmBtu/hr) = 553 lb/hr Hourly SO ₂ emissions rate (30-day average) = (0.15 lb/mmBtu)(2,764 mmBtu/hr) = 415 lb/hr Annual SO ₂ emissions rate = (0.15 lb/mmBtu)(2,764 mmBtu/hr)(8,760 hr/yr)(ton/2,000 lb) = 1,816 ton/yr				
9. Pollutant Potential/Fugitive Emissions Comparing Allowable Emissions Allowable Emissions	·			
Basis for Allowable Emissions Code: OTHER	2. Future Effective Da	ate of Allowable		
3. Requested Allowable Emissions and Units:	4. Equivalent Allowab	ole Emissions:		
0.20 lb/mmBtu (24-hour block average)	553 lb/hour	tons/year		
5. Method of Compliance (limit to 60 character will be demonstrated using CEMs.	s): Compliance with the	SO ₂ emission limit		
6. Allowable Emissions Comment (Desc. of Op The SO ₂ emissions limits along with compliance construction permit PSD-FL-265.		•		

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Emissions Unit Information Section1_	of _	16	_	
Pollutant Detail Information Page7_	_ of _	_13_	_	
Allowable Emissions Allowable Emissions	2	of	2	

Allowable Emissions Allowable Emissions	2of2
Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
OTHER	Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
0.15 lb/mmBtu (30-day rolling average)	415 lb/hour 1,816 tons/year
5. Method of Compliance (limit to 60 character will be demonstrated using CEMs.	s): Compliance with the SO ₂ emission limit
6. Allowable Emissions Comment (Desc. of Op The SO ₂ emissions limits along with compliance construction permit PSD-FL-265.	, ,

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Pollutant Detail Information Page	8	of _	13	
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G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

(Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions				
1. Pollutant Emitted: VOC	2. Total Percent Efficiency of Control:			
3. Potential Emissions: 14 lb/hour	61.5 tons/year	4. Synthetically Limited? []		
5. Range of Estimated Fugitive Emissions:	to to	ns/year		
	6. Emission Factor: 14 lb/hour and 61.5 tons/year Reference: Construction permit PSD-FL-265			
8. Calculation of Emissions (limit to 600 characters): The VOC emissions limit of 14 lb/hour is set by construction permit PSD-FL-265. The VOC emissions limit of 61.5 tons/year is set by construction permit PSD-FL-265.				
9. Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 charac	eters):		
Allowable Emissions	_1 of2			
Basis for Allowable Emissions Code: OTHER	2. Future Effective Da Emissions:	ate of Allowable		
3. Requested Allowable Emissions and Units: 14 lb/hr (3-hour average)	4. Equivalent Allowal	ble Emissions: 61.5 tons/year		
 5. Method of Compliance (limit to 60 character compliance tests while firing coal and while firing Compliance testing will be conducted once with petroleum coke or coal. 6. Allowable Emissions Comment (Desc. of Op The VOC emissions limits along with compliance construction permit PSD-FL-265. 	sylvers): Using appropriate EP and petroleum coke were on the end in every five years thereas appearating Method) (limit to	A Methods, initial conducted. Unifier while firing o 200 characters):		

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Pollutant Detail Information Page9	of13			
Allowable Emissions Allowable Emissions	_2of2			
Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:			
3. Requested Allowable Emissions and Units: 61.5 tons per year	4. Equivalent Allowable Emissions: lb/hour			
5. Method of Compliance (limit to 60 characters): Compliance with the annual limit is demonstrated by demonstrating compliance with the short-term emissions limit.				
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): The VOC emissions limits along with compliance determination requirements are included in				

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Emissions Unit Information Section _	1	_ of	_16	_
Pollutant Detail Information Page	10	of	13	

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: H114	2. Total Percent Efficiency of Control:		
3. Potential Emissions:		4. Synthetically	
0.03 lb/hour	0.13 tons/year_	Limited? []	
5. Range of Estimated Fugitive Emissions:			
[] 1 [] 2 [] 3	to to	ns/year	
6. Emission Factor: 0.03 lb/hour		7. Emissions	
Reference: Construction permit PSD-F	FL-265	Method Code: 0	
8. Calculation of Emissions (limit to 600 chara The mercury emissions limit of 0.03 lb/hour is s Annual mercury emissions rate = (0.03 lb/hr)(8,	et by construction permit		
Pollutant Potential/Fugitive Emissions Com			
·			
Allowable Emissions Allowable Emissions	_l ofl		
Basis for Allowable Emissions Code: OTHER	2. Future Effective Da Emissions:	te of Allowable	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowab	ole Emissions:	
0.03 lb/hour (6-hour average)	0.03 lb/hour	0.13 tons/year	
5. Method of Compliance (limit to 60 character compliance tests while firing coal and while firing			
6. Allowable Emissions Comment (Desc. of Op The mercury emissions limit along with compliant in construction permit PSD-FL-265.			

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Emissions Unit Information Section _	1	_ of	_16	_
Pollutant Detail Information Page	11	of	13	

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions		
1. Pollutant Emitted: PB	2. Total Percent Efficie	ency of Control:
3. Potential Emissions:		4. Synthetically
0.07 lb/hour	0.31 tons/year	Limited? []
5. Range of Estimated Fugitive Emissions:		
[] 1 [] 2 [] 3	to to	ns/year
6. Emission Factor: 0.07 lb/hour		7. Emissions
Reference: Construction permit PSD-F	L-265	Method Code: 0
8. Calculation of Emissions (limit to 600 chara	cters):	
The lead emissions limit of 0.07 lb/hour is set by	-	
Annual lead emissions rate = $(0.07 \text{ lb/hr})(8,760)$	hr/yr)(ton/2,000 lb) = 0.3	1 tons/year
9. Pollutant Potential/Fugitive Emissions Com	mant (limit to 200 abores	towali
9. Politiant Potential/Pugitive Emissions Comi	ment (mint to 200 charac	ieis).
Allowable Emissions Allowable Emissions	_1 of1	
1. Basis for Allowable Emissions Code:	2. Future Effective Da	ate of Allowable
OTHER	Emissions:	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowal	ole Emissions:
0.07 lb/hr (3-hour average)	0.07 lb/hour	0.31 tons/year
5. Method of Compliance (limit to 60 character	,	-
compliance tests while firing coal and while firing	ng petroleum coke were o	conducted.
6. Allowable Emissions Comment (Desc. of Op	perating Method) (limit to	o 200 characters):
The lead emissions limit along with compliance	_ ,	
construction permit PSD-FL-265.		

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Emissions Unit Information Section	1	of	_16	_
Pollutant Detail Information Page	12	of	13	

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1 otential rugitive Emissions				
1. Pollutant Emitted: SAM	2. Total Percent Efficiency of Control:			
3. Potential Emissions: 1.1 lb/hour	4.82 tons/year	4. Synthetically Limited? []		
. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3totons/year				
6. Emission Factor: 1.1 lb/hour Reference: Construction permit PSD-F	L-265	7. Emissions Method Code:		
8. Calculation of Emissions (limit to 600 characters): The sulfuric acid mist emissions limit of 1.1 lb/hour is set by construction permit PSD-FL-265. Annual sulfuric acid mist emissions rate = (1.1 lb/hr)(8,760 hr/yr)(ton/2,000 lb) = 4.82 tons/year				
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):				
Allowable Emissions1 of1				
Basis for Allowable Emissions Code: OTHER	2. Future Effective Da Emissions:	te of Allowable		
3. Requested Allowable Emissions and Units: 1.1 lbs/hour (3-hour average)	4. Equivalent Allowab	ole Emissions: 4.82 tons/year		
5. Method of Compliance (limit to 60 characters): Using appropriate EPA Methods, initial compliance tests while firing coal and while firing petroleum coke were conducted.				
6. Allowable Emissions Comment (Desc. of Op The sulfuric acid mist emissions limit along with included in construction permit PSD-FL-265.		,		

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Emissions Unit Information Section	1	_ of	_16	-
Pollutant Detail Information Page	13	of	13	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

(Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions				
1. Pollutant Emitted: H107	2. Total Percent Efficiency of Control:			
3. Potential Emissions:		4. Synthetically		
0.43 lb/hour	1.88 tons/year	Limited? []		
5. Range of Estimated Fugitive Emissions:				
[] 1 [] 2 [] 3	to to	ns/year		
6. Emission Factor: 0.43 lb/hour		7. Emissions		
Reference: Construction permit PSD-F	FL-265	Method Code: 0		
8. Calculation of Emissions (limit to 600 chara				
The hydrogen fluoride emissions limit of 0.43 lb Annual hydrogen fluoride emissions rate = (0.43				
	tons/year	.,000 10)		
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):				
Allowable Emissions Allowable Emissions	_1 of1			
1. Basis for Allowable Emissions Code:	2. Future Effective Da	ate of Allowable		
OTHER	Emissions:	-		
3. Requested Allowable Emissions and Units:	4. Equivalent Allowal	ole Emissions:		
0.43 lb/hour (3-hour average)	0.43 lb/hour	1.88 tons/year		
5. Method of Compliance (limit to 60 characters): Using appropriate EPA Methods, initial				
compliance tests while firing coal and while firing petroleum coke were conducted.				
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):				
The hydrogen fluoride emissions limit along with compliance determination requirements are				
included in construction permit PSD-FL-265.				

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Emissions	Unit	Infor	mation	Section	1	of	16	

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

Visible Emissions Limitation: Visible Emiss	ions Limitation1 of1				
1. Visible Emissions Subtype: V10	2. Basis for Allowable Opacity:				
	[] Rule [X] Other				
3. Requested Allowable Opacity:					
l .	sceptional Conditions: %				
Maximum Period of Excess Opacity Allow	ed: min/hour				
4. Method of Compliance: Compliance with the visible emissions limit will be demonstrated					
using a continuous opacity monitor (COM).					
5. Visible Emissions Comment (limit to 200 con a 6-minute block average and is based on exmalfunction. The visible emissions limit along are included in construction permit PSD-FL-26	with compliance determination requirements				
	NITOR INFORMATION Subject to Continuous Monitoring) Monitor1_ of5_				
1. Parameter Code: VE	2. Pollutant(s):				
3. CMS Requirement:	[X] Rule [] Other				
4. Monitor Information:					
Manufacturer: KVB/MIP					
Model Number: LM3086EPA3	Serial Number: 730217				
5. Installation Date:	6. Performance Specification Test Date: June 10, 2002				
7. Continuous Monitor Comment (limit to 200 characters):					

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Emissions	Unit Info	rmation	Section	1	of	16	
CHIDOMORIA	CHILL SHID	1111411011	Section		U1	10	

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

(Only Regulated Emissions Units	Subject to Continuous Monitoring)
Continuous Monitoring System: Continuous	Monitor2 of5
1. Parameter Code: EM	2. Pollutant(s): CO
3. CMS Requirement:	[] Rule [X] Other
4. Monitor Information:	
Manufacturer: TECO	
Model Number: 48C	Serial Number: 48C-70175-365
5. Installation Date:	6. Performance Specification Test Date: June 10, 2002
7. Continuous Monitor Comment (limit to 200	characters): Use of CEMs required by
construction permit PSD-FL-265.	,
I. CONTINUOUS MO	NITOR INFORMATION
	Subject to Continuous Monitoring)
Continuous Monitoring System: Continuous	Monitor3 of5
1. Parameter Code: EM	2. Pollutant(s): NOX
3. CMS Requirement:	[X] Rule [] Other
4. Monitor Information:	
Manufacturer: TECO	
Model Number: 42C	Serial Number: 42C-69028-362
5. Installation Date:	6. Performance Specification Test Date:
	June 10, 2002
7. Continuous Monitor Comment (limit to 200	
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Emissions Uni	Information	Section	1	of	16
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I. CONTINUOUS MONITOR INFORMATION (Only Regulated Emissions Units Subject to Continuous Monitoring)

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

<u>Continuous Monitoring System:</u> Continuous Monitor ___5__ of ___5_

1.	Parameter Code: CO2	2. Pollutant(s):
3.	CMS Requirement:	[X] Rule [] Other
4.	Monitor Information:	
	Manufacturer: CAI	
	Model Number: ZRH	Serial Number: AOXO603T
5.	Installation Date:	6. Performance Specification Test Date:
		June 10, 2002
7.	Continuous Monitor Comment (limit to 200	characters):

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Emissions Unit Information Section 1	of	16
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J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

1.	Process Flow Diagram			
	[X] Attached, Document ID:Attachment C[] Not Applicable	[]	Waiver Requested
2.	Fuel Analysis or Specification			
	[X] Attached, Document ID:Attachment M [] Not Applicable	[]	Waiver Requested
3.	Detailed Description of Control Equipment			
	[X] Attached, Document ID:Attachment N [] Not Applicable	[]	Waiver Requested
4.	Description of Stack Sampling Facilities			
	[X] Attached, Document ID:Attachment O [] Not Applicable	[]	Waiver Requested
5.	Compliance Test Report			
	[X] Attached, Document ID:Attachment P			
	Previously submitted, Date:			
	[] Not Applicable			
6.	Procedures for Startup and Shutdown			
	[X] Attached, Document ID:Attachment Q[] Not Applicable	[]	Waiver Requested
7.	[X] Attached, Document ID:Attachment Q[] Not Applicable Operation and Maintenance Plan	[]	Waiver Requested
7.				
	Operation and Maintenance Plan			
	Operation and Maintenance Plan [X] Attached, Document ID:Attachment R [] Not Applicable			
8.	Operation and Maintenance Plan [X] Attached, Document ID:Attachment R [] Not Applicable Supplemental Information for Construction Permit Application			
8.	Operation and Maintenance Plan [X] Attached, Document ID:Attachment R [] Not Applicable Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable			
8.9.	Operation and Maintenance Plan [X] Attached, Document ID:Attachment R [] Not Applicable Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute			
8.9.	Operation and Maintenance Plan [X] Attached, Document ID:Attachment R [] Not Applicable Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable			
8.9.	Operation and Maintenance Plan [X] Attached, Document ID:Attachment R [] Not Applicable Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable			
8.9.	Operation and Maintenance Plan [X] Attached, Document ID:Attachment R [] Not Applicable Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable			
8.9.	Operation and Maintenance Plan [X] Attached, Document ID:Attachment R [] Not Applicable Supplemental Information for Construction Permit Application [] Attached, Document ID: [X] Not Applicable Other Information Required by Rule or Statute [] Attached, Document ID: [X] Not Applicable			

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Emissions	Unit.	Iniormation	Section	1	O1	10	

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[X] Attached, Document ID:Attachment H[] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[X] Attached, Document ID:Attachment S [] Not Applicable
15. Acid Rain Part Application (Hard-copy Required) Attachment T
[] 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:
Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[] Not Applicable

Emissions	Unit	Information	Section	2	\mathbf{of}	16	

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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 (All Emissions Units)

Emissions Unit Description and Status

1. Type of Emission	s Unit Addressed in This	s Section: (Check one)				
process or prod	[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).					
process or prod	[] 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.					
1 6 3		n addresses, as a single emis s which produce fugitive em				
2. Regulated or Unro	egulated Emissions Unit	? (Check one)				
[X] The emissions uemissions unit.	unit addressed in this Em	issions Unit Information Sec	ction is a regulated			
[] The emissions unit.	ınit addressed in this Em	issions Unit Information Sec	ction is an unregulated			
_		in This Section (limit to 60 o	characters):			
1105 Chediann	NGS – Circulating Fluidized Bed Boiler No. 1					
	entification Number:		[] No ID			
ID: 027			[] ID Unknown			
5. Emissions Unit Status Code: A	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit? [X]			
9. Emissions Unit Comment: (Limit to 500 Characters) Old NGS Boiler No. 1 (EU001) was repowered in construction of NGS Circulating Fluidized Bed Boiler No. 1. Emissions unit identification number EU001, which is used to track baseline data for old NGS Boiler No. 1, is no longer an active emission point number.						

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Emissions Unit Control Equipment

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

Initial sulfur dioxide (SO₂) control is achieved through limestone injection into the circulating fluidized bed (CFB) boiler. The limestone will calcine to form lime (CaO) which reacts with the SO₂ in the combustion gas to form calcium sulfite (CaSO₃) or calcium sulfate (CaSO₄). Further SO₂ control is achieved using an add-on lime slurry spray dryer, where calcium in the lime slurry will react with SO₂ remaining in the flue gas.

Particulate matter (PM) consisting of flyash, the SO_2 control reaction products and unreacted lime is controlled using a fabric filter dust collector downstream of the spray dryer. Selective non catalytic reduction (SNCR) is used to reduce oxides of nitrogen (NO_x) emissions by reacting ammonia with NO_x to form molecular nitrogen and water.

2. Control Device or Method Code(s): 041, 013, 018, and 107

Emissions Unit Details

1.	Package Unit:		
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating: 297.5	MW	
3.	Incinerator Information: Not applicable		
	Dwell Temperature:		°F
	Dwell Time:		seconds
	Incinerator Afterburner Temperature:	•	°F

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	Emissions	Unit	Information	Section	2	of	16
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B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate: 2,	,764	mmBtu/hr
2.	Maximum Incineration Rate:	lb/hr	tons/day
3.	Maximum Process or Through	put Rate:	
4.	Maximum Production Rate:		
5.	Requested Maximum Operation	ng Schedule:	
		24 hours/day	7 days/week
		52 weeks/year	8,760 hours/year
6.	Operating Capacity/Schedule (Comment (limit to 200 characters):	

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Emissions	Unit	Information	Section	2	of	16
		TARIOT INTESTION		_	0.1	10

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations	
hereby incorporates by reference the Title	
V core list of applicable regulations that all	
Title V sources are presumptively subject.	
Applicable regulations specified in	
construction permit PSD-FL-265 are	
hereby incorporated by reference.	
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Emissions Unit Information Section 2 of 16	n 2 of 16
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D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on P Flow Diagram? EU027	lot Plan or	2. Emission Po	oint Type Code: 1	
3. Descriptions of Emission P 100 characters per point):	oints Comprising	g this Emissions (Unit for VE Tracking	(limit to
4. ID Numbers or Descriptions				
While NGS – Circulating Fluid NGS – Circulating Fluidized Bo				
separate flues, one for each CFI			mon states contains to	, 0
5. Discharge Type Code:	6. Stack Heigh	ht:	7. Exit Diameter:	
V	495	feet	15.0	feet
8. Exit Temperature:	9. Actual Vol	umetric Flow	10. Water Vapor:	
144°F (approx)	Rate:	, .		%
11. Maximum Dry Standard Flo		pprox) acfm	nission Point Height:	
11. Maximum Diy Standard FR	dscfm	12. Profisited El	_	feet
13. Emission Point UTM Coord	linates:			
Zone: 17 E	ast (km): 446.67	70 Nortl	h (km): 3365.070	
14. Emission Point Comment (I		,		l is not
required because this emission				100
NGS – Circulating Fluidized Be Circulating Fluidized Bed Boile	`	,		
flues, one for each CFB boiler.	1 No. 1 (EU027)). The common s	tack comains two sep	arate
naes, one for each of B soner.				

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E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Rate: Segment 1 of 5 1. Segment Description (Process/Fuel Type) (limit to 500 characters): Coal used in Circulating Fluidized Bed Boiler No. 1 Source Classification Code (SCC): 3. SCC Units: Tons Burned 10100218 4. Maximum Hourly Rate: 5. Maximum Annual Rate: 6. Estimated Annual Activity 1,210,632 (approx) 138.20 (approx) Factor: 7. Maximum % Sulfur: 8. Maximum % Ash: 9. Million Btu per SCC Unit: 20 (approx) 10. Segment Comment (limit to 200 characters):

Segment Description and Rate: Segment 2 of 5

- 1. Segment Description (Process/Fuel Type) (limit to 500 characters): Petroleum coke used in Circulating Fluidized Bed Boiler No. 1
- 2. Source Classification Code (SCC):

 10100299

 4. Maximum Hourly Rate:
 101.9 (approx)

 7. Maximum % Sulfur:
 8.00

 3. SCC Units: Tons Burned
 6. Estimated Annual Activity
 Factor:
 9. Million Btu per SCC Unit:
 27.12 (approx)
- 10. Segment Comment (limit to 200 characters): SCC number 10100218 is for external combustion boilers electric generation bituminous/subbituminous coal atmospheric fluidized bed combustion: circulating bed (bituminous coal). SCC number 10100299 is used because a SCC number for combustion of petroleum coke was not found.

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E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Ra	ate: Segment	3 of5	
	Segment Description (Process/Fuel Type) Coal and Petroleum coke blend used in Circ		
		T	
2. Source Classification Cod 10100299	e (SCC):	3. SCC Unit	ts: Tons Burned
4. Maximum Hourly Rate: 138.20 (approx)	5. Maximum <i>A</i> 1,210,632		6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 8	8. Maximum 9	% Ash:	9. Million Btu per SCC Unit: 20 (approx)
10. Segment Comment (limit	to 200 characters)):	
·			
Segment Description and Ra	ite: Segment	4 of5	
Segment Description (Proc Natural gas used in Circula			
2. Source Classification Code 10100299	e (SCC):	3. SCC Units	: Million cubic feet burned
4. Maximum Hourly Rate: 0.31 (approx)	5. Maximum <i>A</i> 15.60 (a		6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum %	6 Ash:	9. Million Btu per SCC Unit: 1,000 (approx)
10. Segment Comment (limit t	o 200 characters)	: Natural gas	is to be used for startup only.

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E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Ra	ate: Segment	5 of5	
Segment Description (Pro Distillate oil used in Circu		`	
2. Source Classification Cod	e (SCC):	3. SCC Unit	s:
10100299 Thousand gall		lons burned	
4. Maximum Hourly Rate:	5. Maximum A	annual Rate:	6. Estimated Annual Activity
2.26 (approx)	113 (ap	prox)	Factor:
7. Maximum % Sulfur:	8. Maximum %	6 Ash:	9. Million Btu per SCC Unit:
0.05	,		140 (approx)
10. Segment Comment (limit	to 200 characters)	:	
Distillate oil is to be used for	startup only.		

F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
CO			EL
NO _X	107		EL
PM	018		EL
PM ₁₀	018		EL
SO ₂	041	013	EL
VOC			EL
H114	013	018	EL
PB	0	018	EL
SAM	041	013	EL .
H107	013		EL
H106	013		NS
HAPS			NS

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G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions			
1. Pollutant Emitted: CO	2. Total Percent Efficiency of Control:		
3. Potential Emissions: 350 lb/hour	1,533 tons/year	4. Synthetically Limited? []	
5. Range of Estimated Fugitive Emissions:			
	to to:	ns/year	
6. Emission Factor: 350 lb/hr		7. Emissions	
Reference: Construction permit PSD-l	FL-265	Method Code: 0	
 8. Calculation of Emissions (limit to 600 chara The CO emissions limit of 350 lb/hour as a 24-h is set by construction permit PSD-FL-265. The CO emissions limit of 1,533 tons/year is set 9. Pollutant Potential/Fugitive Emissions Common Pollutant Potential 	nour average (excluding s	PSD-FL-265.	
Allowable Emissions Allowable Emissions	_1 of2		
Basis for Allowable Emissions Code: OTHER	2. Future Effective Da Emissions:	nte of Allowable	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowal	ole Emissions:	
350 lb/hr (24-hour block average)	350 lb/hour	1,533 tons/year	
5. Method of Compliance (limit to 60 character will be demonstrated using CEMS.	rs): Compliance with the	CO emission limits	
6. Allowable Emissions Comment (Desc. of Op The CO emissions limit along with compliance of construction permit PSD-FL-265.			

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G. EMISSIONS UNIT POLLUT	TANT DETAIL INFORMATION			
(Regulated En	nissions Units -			
Emissions-Limited and Preconst	truction Review Pollutants Only)			
Allowable Emissions Allowable Emissions	_2 of2			
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable			
OTHER	Emissions:			
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:			
1,533 tons per year	lb/hour 1,533 tons/year			
5. Method of Compliance (limit to 60 characters): Compliance with the annual CO emissions limit will be demonstrated by summing the products of hourly CO emission rate data and heat input data from the CEMS.				
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): The CO emissions limit along with compliance determination requirements are included in construction permit PSD-FL-265.				

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G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1 Otentiable agitive Limissions				
1. Pollutant Emitted: NO _X	2. Total Percent Efficiency of Control:			
3. Potential Emissions:		4. Synthetically		
249 lb/hour	1,090 tons/year	Limited? []		
5. Range of Estimated Fugitive Emissions:	1,000 tollor j cur	Emmed: []		
[] 1 [] 2 [] 3	to to	ns/year		
6. Emission Factor: 0.09 lb/mmBtu		7. Emissions		
Reference: Construction permit PSD-F	L-265	Method Code: 0		
8. Calculation of Emissions (limit to 600 chara The NOx Emissions limit of 0.09 lb/mmBtu is s The heat input rate to EU027 is 2,764 mmBtu/h Hourly NOx emissions rate = (0.09 lb/mmBtu)(2 Annual NOx emissions rate = (0.09 lb/mmBtu)(2 = 1,090 tons/yr	et by construction permit r. 2,764 mmBtu/hr) = 249 ll 2,764 mmBtu/hr)(8,760 l	b/hr nr/yr)(ton/2,000 lb) =		
Allowable Emissions Allowable Emissions	· .			
Allowable Ellissions Allowable Ellissions	_1011			
 Basis for Allowable Emissions Code: OTHER 	2. Future Effective Da Emissions:	te of Allowable		
3. Requested Allowable Emissions and Units:	4. Equivalent Allowal	ole Emissions:		
0.09 lb/mmBtu on a 30-day rolling average	249 lb/hour	1,090 tons/year		
5. Method of Compliance (limit to 60 character will be demonstrated using CEMs.	rs): Compliance with the	NO _x emission limit		
6. Allowable Emissions Comment (Desc. of Op The NO _x emissions limit along with compliance construction permit PSD-FL-265. The NO _x emis- basis.	determination requireme	ents are included in		

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Pollutant Detail Information Page	4	_ of _	13	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

otal Percent Efficients 133 tons/year	
	4. Synthetically
	Limited? []
to to	ns/year
	7. Emissions
	Method Code: 0
onstruction perminmBtu/hr) = 30 lb nmBtu/hr)(8,760 l	
of1	
uture Effective Da missions:	ate of Allowable
quivalent Allowa	ble Emissions:
30 lb/hour	133 tons/year
conducted. Complete first two years of the Method) (limit the second sec	PA Methods, initial pliance testing while of operation and then o 200 characters): nts are included in
	ne first two years of Method) (limit t

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G. EMISSIONS UNIT PO	LLUTANT DETAIL INFORMATION
(Regulat	ed Emissions Units -
Emissions-Limited and Pro	econstruction Review Pollutants Only
Potential/Fugitive Emissions	

Emissions-Limited and Precons	truction Review Polluta	ints Only)	
Potential/Fugitive Emissions			
1. Pollutant Emitted: PM ₁₀	2. Total Percent Efficiency of Control:		
3. Potential Emissions: 30 lb/hour	133 tons/year	4. Synthetically Limited? []	
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3	toto	ns/year	
6. Emission Factor: 0.011 lb/mmBtu Reference: Construction permit PSD-F	FL-265	7. Emissions Method Code: 0	
8. Calculation of Emissions (limit to 600 chara The PM ₁₀ Emissions limit of 0.011 lb/mmBtu is The heat input rate to EU027 is 2,764 mmBtu/h Hourly PM ₁₀ emissions rate = (0.011 lb/mmBtu) Annual PM ₁₀ emissions rate = (0.011 lb/mmBtu = 133 ton/yr	s set by construction perm r.)(2,764 mmBtu/hr) = 30 l	b/hr	
9. Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 charac	ters):	
Allowable Emissions Allowable Emissions	_1 of1		
Basis for Allowable Emissions Code: OTHER	2. Future Effective Da Emissions:	ate of Allowable	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowal	ole Emissions:	
0.011 lb/mmBtu based on a 3-hour average	30 lb/hour	133 tons/year	
5. Method of Compliance (limit to 60 character compliance testing while firing petroleum coke firing petroleum coke will be conducted annually	will be conducted. Comp		
6. Allowable Emissions Comment (Desc. of Op The PM ₁₀ emissions limit along with compliance construction permit PSD-FL-265.			

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G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

(Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions		
1. Pollutant Emitted: SO ₂	2. Total Percent Efficie	ency of Control:
3. Potential Emissions:		4. Synthetically
553 lb/hour	1,816 tons/year	Limited? []
5. Range of Estimated Fugitive Emissions:		
[]1 []2 []3		ns/year
6. Emission Factor: 0.20 lb/mmBtu and 0.15 lb	b/mmBtu	7. Emissions
Reference: Construction permit PSD-F	FL-265	Method Code: 0
day rolling average) are set by construction perm. The heat input rate to EU027 is 2,764 mmBtu/h. Hourly SO ₂ emissions rate (24-hour average) = (4 Hourly SO ₂ emissions rate (30-day average) = (4 Annual SO ₂ emissions rate = (0.15 lb/mmBtu)(2 = 1,816 ton/yr 9. Pollutant Potential/Fugitive Emissions Comm	r. (0.20 lb/mmBtu)(2,764 m).15 lb/mmBtu)(2,764 mr 2,764 mmBtu/hr)(8,760 h	mBtu/hr) = 415 lb/hr r/yr)(ton/2,000 lb)
Allowable Emissions Allowable Emissions	_1 of2	
Basis for Allowable Emissions Code: OTHER	2. Future Effective Da Emissions:	te of Allowable
3. Requested Allowable Emissions and Units:	4. Equivalent Allowab	ole Emissions:
0.20 lb/mmBtu (24-hour block average)	553 lb/hour	tons/year
5. Method of Compliance (limit to 60 character will be demonstrated using CEMs.	rs): Compliance with the	SO ₂ emission limit
6. Allowable Emissions Comment (Desc. of Op The SO ₂ emissions limits along with compliance construction permit PSD-FL-265.		

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Allowable Emissions Allowable Emissions	_2 of2
Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
0.15 lb/mmBtu (30-day rolling average)	415 lb/hour 1,816 tons/year
5. Method of Compliance (limit to 60 character	s): Compliance with the SO ₂ emission limit
will be demonstrated using CEMs.	
6. Allowable Emissions Comment (Desc. of Op	perating Method) (limit to 200 characters):
The SO ₂ emissions limits along with compliance construction permit PSD-FL-265.	determination requirements are included in

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G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions		
1. Pollutant Emitted: VOC	2. Total Percent Efficie	ency of Control:
3. Potential Emissions: 14 lb/hour	61.5 tons/year	4. Synthetically Limited? []
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3	to to	ns/year
6. Emission Factor: 14 lb/hour and 61.5 tons/y Reference: Construction permit PSD-		7. Emissions Method Code:
8. Calculation of Emissions (limit to 600 chara The VOC emissions limit of 14 lb/hour is set by The VOC emissions limit of 61.5 tons/year is set	construction permit PSD	
9. Pollutant Potential/Fugitive Emissions Com		eters):
Allowable Emissions Allowable Emissions	_1 of2	
Basis for Allowable Emissions Code: OTHER	2. Future Effective Da Emissions:	ate of Allowable
3. Requested Allowable Emissions and Units:	4. Equivalent Allowal	ole Emissions:
14 lb/hr (3-hour average)	14 lb/hour	61.5 tons/year
5. Method of Compliance (limit to 60 character compliance testing while firing petroleum coker conducted once within every five years thereafter	will be conducted. Comper while firing petroleum	bliance testing will be coke or coal.
6. Allowable Emissions Comment (Desc. of On The VOC emissions limits along with compliant construction permit PSD-FL-265.	. •	

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Pollutant Detail Information Page	9	_ of	_13_	_	
Allowable Emissions Allowable Emis	ssions _	2	_ of _	_2_	_

Allowable Emissions Allowable Emissions	_2012
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
OTHER	Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
61.5 tons per year	lb/hour 61.5 tons/year
5. Method of Compliance (limit to 60 characters	s): Compliance with the annual limit is
demonstrated by demonstrating compliance with	the short-term emissions limit.
6. Allowable Emissions Comment (Desc. of Op	erating Method) (limit to 200 characters):
The VOC emissions limits along with compliance construction permit PSD-FL-265.	e determination requirements are included in

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G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: H114	2. Total Percent Efficiency of Control:		
3. Potential Emissions:		4. Synthetically	
0.03 lb/hour	0.13 tons/year	Limited? []	
5. Range of Estimated Fugitive Emissions:			
	to to	ns/year	
6. Emission Factor: 0.03 lb/hour		7. Emissions	
Reference: Construction permit PSD-F	FL-265	Method Code: 0	
8. Calculation of Emissions (limit to 600 chara The mercury emissions limit of 0.03 lb/hour is s Annual mercury emissions rate = (0.03 lb/hr)(8, 9. Pollutant Potential/Fugitive Emissions Com	set by construction permit 760 hr/yr)(ton/2,000 lb) =	= 0.13 tons/year	
Allowable Emissions Allowable Emissions	_1 of1		
Basis for Allowable Emissions Code: OTHER	2. Future Effective Da Emissions:	ate of Allowable	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowal	ole Emissions:	
0.03 lb/hour (6-hour average)	0.03 lb/hour	0.13 tons/year	
5. Method of Compliance (limit to 60 character Circulating Fluidized Bed Boiler No. 2 (EU026) compliance.	, *	~	
6. Allowable Emissions Comment (Desc. of Op The mercury emissions limit along with complia- in construction permit PSD-FL-265.	, ,	,	

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G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: PB	2. Total Percent Efficiency of Control:		
3. Potential Emissions:		4. Synthetically	
0.07 lb/hour	0.31 tons/year	Limited? []	
5. Range of Estimated Fugitive Emissions:			
	to to	ns/year	
6. Emission Factor: 0.07 lb/hour		7. Emissions	
Reference: Construction permit PSD-F	FL-265	Method Code: 0	
8. Calculation of Emissions (limit to 600 chara The lead emissions limit of 0.07 lb/hour is set be Annual lead emissions rate = (0.07 lb/hr)(8,760) 9. Pollutant Potential/Fugitive Emissions Com	y construction permit PSI hr/yr)(ton/2,000 lb) = 0.3	31 tons/year	
Allowable Emissions Allowable Emissions	_1 of1		
Basis for Allowable Emissions Code: OTHER	2. Future Effective Da Emissions:	ate of Allowable	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowal	ble Emissions:	
0.07 lb/hr (3-hour average)	0.07 lb/hour	0.31 tons/year	
5. Method of Compliance (limit to 60 character Circulating Fluidized Bed Boiler No. 2 (EU026) compliance.		_	
6. Allowable Emissions Comment (Desc. of On The lead emissions limit along with compliance construction permit PSD-FL-265.			

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G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1 otential/Tugitive Emissions			
1. Pollutant Emitted: SAM	2. Total Percent Efficiency of Control:		
3. Potential Emissions: 1.1 lb/hour	4.82 tons/year	4. Synthetically Limited? []	
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3	toto	ns/year	
6. Emission Factor: 1.1 lb/hour		7. Emissions	
Reference: Construction permit PSD-F	L-265	Method Code: 0	
8. Calculation of Emissions (limit to 600 chara The sulfuric acid mist emissions limit of 1.1 lb/k Annual sulfuric acid mist emissions rate = (1.1 l = 4.82 t	nour is set by construction		
9. Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 charac	lers):	
Allowable Emissions Allowable Emissions	_1 of1		
Basis for Allowable Emissions Code: OTHER	2. Future Effective Da Emissions:	te of Allowable	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowab	ole Emissions:	
1.1 lbs/hour (3-hour average)	1.1 lb/hour	4.82 tons/year	
5. Method of Compliance (limit to 60 character Circulating Fluidized Bed Boiler No. 2 (EU026) compliance.	,	•	
6. Allowable Emissions Comment (Desc. of Op The sulfuric acid mist emissions limit along with	, , ,	•	
included in construction permit PSD-FL-265.			

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G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions		
1. Pollutant Emitted: H107	2. Total Percent Efficie	ency of Control:
 3. Potential Emissions: 0.43 lb/hour 5. Range of Estimated Fugitive Emissions: 	1.88 tons/year	4. Synthetically Limited? []
[] 1 [] 2 [] 3	to to	ns/year
6. Emission Factor: 0.43 lb/hour		7. Emissions
Reference: Construction permit PSD-F	TL-265	Method Code:
8. Calculation of Emissions (limit to 600 chara The hydrogen fluoride emissions limit of 0.43 lb Annual hydrogen fluoride emissions rate = (0.43 = 1.88	hr is set by construction	_
9. Pollutant Potential/Fugitive Emissions Com		ters):
Allowable Emissions Allowable Emissions	_1 of1	
 Basis for Allowable Emissions Code: OTHER 	2. Future Effective Da Emissions:	ite of Allowable
3. Requested Allowable Emissions and Units:	4. Equivalent Allowal	ole Emissions:
0.43 lb/hour (3-hour average)	0.43 lb/hour	1.88 tons/year
5. Method of Compliance (limit to 60 character Circulating Fluidized Bed Boiler No. 2 (EU026) compliance.		
6. Allowable Emissions Comment (Desc. of Op The hydrogen fluoride emissions limit along wit included in construction permit PSD-FL-265.		

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Emissions	Unit In	formation	Section	2	οf	16	
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H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1 2. Basis for Allowable Opacity: 1. Visible Emissions Subtype: V10 [X] Other 1 Rule 3. Requested Allowable Opacity: Normal Conditions: % 10 % Exceptional Conditions: min/hour Maximum Period of Excess Opacity Allowed: 4. Method of Compliance: Compliance with the visible emissions limit will be demonstrated using a continuous opacity monitor (COM). 5. Visible Emissions Comment (limit to 200 characters): The visible emissions limit is based on a 6-minute block average and is based on excluding periods of startup, shutdown and malfunction. The visible emissions limit along with compliance determination requirements are included in construction permit PSD-FL-265. I. CONTINUOUS MONITOR INFORMATION (Only Regulated Emissions Units Subject to Continuous Monitoring) Continuous Monitoring System: Continuous Monitor 1 of 5 1. Parameter Code: VE 2. Pollutant(s): [X] Rule 3. CMS Requirement: [] Other 4. Monitor Information: Manufacturer: Model Number: Serial Number: 6. Performance Specification Test Date: 5. Installation Date: 7. Continuous Monitor Comment (limit to 200 characters):

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Emissions	Unit In	formation	Section	2	of	16	

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

Continuous Monitoring System: Continuous Monitor ___2__ of ___5__

1. Parameter Code: EM	2. Pollutant(s): CO
3. CMS Requirement:	[] Rule [X] Other
4. Monitor Information:	
Manufacturer:	
Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 construction permit PSD-FL-265.	characters): Use of CEMs required by
(Only Regulated Emissions Units <u>Continuous Monitoring System:</u> Continuous	
(Only Regulated Emissions Units	Subject to Continuous Monitoring)
(Only Regulated Emissions Units <u>Continuous Monitoring System:</u> Continuous	Subject to Continuous Monitoring) Monitor3 of5
(Only Regulated Emissions Units Continuous Monitoring System: Continuous 1. Parameter Code: EM	Subject to Continuous Monitoring) Monitor3 of5 2. Pollutant(s): NOX
(Only Regulated Emissions Units Continuous Monitoring System: Continuous 1. Parameter Code: EM 3. CMS Requirement: 4. Monitor Information: Manufacturer:	Subject to Continuous Monitoring) Monitor3 of5 2. Pollutant(s): NOX [X] Rule [] Other

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Emissions Unit Information Section	2	of	16
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I. CONTINUOUS MONITOR INFORMATION (Only Regulated Emissions Units Subject to Continuous Monitoring)

	Monitor4 of5			
1. Parameter Code: EM	2. Pollutant(s): SO2			
3. CMS Requirement:	[X] Rule [] Other			
4. Monitor Information:				
Manufacturer:				
Model Number:	Serial Number:			
5. Installation Date:	6. Performance Specification Test Date:			
7. Continuous Monitor Comment (limit to 200	characters):			
I. CONTINUOUS MO	NITOR INFORMATION			
(Only Regulated Emissions Units	Subject to Continuous Monitoring)			
Continuous Monitoring System: Continuous Monitor 5 of 5				
Continuous Montoring System.	Monitor5 of5			
Parameter Code: O2 or CO2	Monitor5 of5 2. Pollutant(s):			
 Parameter Code: O2 or CO2 CMS Requirement: Monitor Information: 	2. Pollutant(s):			
Parameter Code: O2 or CO2 CMS Requirement: Monitor Information: Manufacturer:	2. Pollutant(s):			
 Parameter Code: O2 or CO2 CMS Requirement: Monitor Information: 	2. Pollutant(s): [X] Rule [] Other			
Parameter Code: O2 or CO2 CMS Requirement: Monitor Information: Manufacturer: Model Number:	Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date:			
Parameter Code: O2 or CO2 CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	2. Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date:			
Parameter Code: O2 or CO2 CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	2. Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date:			
Parameter Code: O2 or CO2 CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	2. Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date:			
Parameter Code: O2 or CO2 CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	2. Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date:			
Parameter Code: O2 or CO2 CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	2. Pollutant(s): [X] Rule [] Other Serial Number: 6. Performance Specification Test Date:			

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Emissions	Unit Information	Section	2	of	16	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

1.	Process Flow Diagram [X] Attached, Document ID:Attachment C [] Not Applicable [] Waiver Requested
2.	Fuel Analysis or Specification [X] Attached, Document ID:Attachment M [] Not Applicable [] Waiver Requested
3.	Detailed Description of Control Equipment [X] Attached, Document ID:Attachment N[] Not Applicable [] Waiver Requested
4.	Description of Stack Sampling Facilities [X] Attached, Document ID:Attachment O [] Not Applicable [] Waiver Requested
5.	Compliance Test Report
	[] Attached, Document ID:
	Previously submitted, Date:
	[] Not Applicable
6.	Procedures for Startup and Shutdown [X] Attached, Document ID:Attachment Q[] Not Applicable [] Waiver Requested
7.	Operation and Maintenance Plan [X] Attached, Document ID:Attachment R [] Not Applicable [] Waiver Requested
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
rea	Supplemental Requirements Comment: The deadline for compliance testing has not been ched and compliance testing has not yet been conducted for this emissions unit. In a mpliance testing for this emissions unit will be conducted as required by PSD-FL-265.

Emissions	Unit Information	Section	2	οf	16	
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Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[X] Attached, Document ID:Attachment H [] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[X] Attached, Document ID:Attachment S [] Not Applicable
15. Acid Rain Part Application (Hard-copy Required) Attachment T
[] 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:
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
[] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[] Not Applicable

Emissions	Unit	Information	Section	3a	of	16
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III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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 (All Emissions Units)

Emissions Unit Description and Status

1. Type of Emission	ns Unit Addressed in Thi	s 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).					
process or prod	[] 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.				
		n addresses, as a single emis s which produce fugitive em			
2. Regulated or Unr	egulated Emissions Unit	? (Check one)			
[X] The emissions emissions unit.	unit addressed in this Em	nissions Unit Information Sec	ction is a regulated		
[] The emissions emissions unit.	unit addressed in this Em	nissions Unit Information Sec	ction is an unregulated		
3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Transfer towers (EU028c, g, I, q,t,u), Coal and petroleum coke storage buildings (EU028h), Stacker/reclaimers (EU028), limestone storage (EU028d) and conveyors (EU028).					
4. Emissions Unit Identification Number: [] No ID					
ID: 028			[] ID Unknown		
5. Emissions Unit Status Code:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit?		
9. Emissions Unit Comment: (Limit to 500 Characters) This emissions unit consists of multiple material handling and storage which are sources of fugitive emission sources.					

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Emissions	Unit	Information	Section	3a	\mathbf{of}	16	
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Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):
Particulate matter emissions from this emissions unit will be controlled, on an as needed basis,
by the use of wet suppression, water spray, coverings, and/or conditioned materials.
Particulate matter emissions from this emissions unit are fugitive emissions.

2. Control Device or Method Code(s): 061, 062, and 054 as needed

Emissions Unit Details

1.	Package Unit:		
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating:	MW	
3.	Incinerator Information: Not applicable		
	Dwell Temperature:		°F
	Dwell Time:		seconds
	Incinerator Afterburner Temperature:		°F

Emissions	Unit	Information	Section	3a	of	16	
			Section	Ja	O.	10	

B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate:		mmBtu/hr
2.	Maximum Incineration Rate:	lb/hr	tons/day
3.	Maximum Process or Throughput Rate:	2,420,000 tons per year coa	-
		1,450,000 tons per year lim	nestone
4.	Maximum Production Rate:		
5.	Requested Maximum Operating Schedul	e:	
	24 ho	urs/day	7 days/week
	52 we	eks/year	8,760 hours/year
ho co us:	Operating Capacity/Schedule Comment urly throughputs differ for the different equivariant permit number PSD-FL-265 linuage rate to 2.42 million tons per year and last 1.45 million tons per year.	quipment covered under this enits the annual coal/petroleun	emissions unit, n coke handling and

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C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject. Applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference.	
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Emissions	Unit	Information	Section	3a	of	16

D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Pl Flow Diagram? EU028, EU	2. Emission Po	oint Type Code: 4			
EU028d, EU028h and EU028I					
3. Descriptions of Emission Po 100 characters per point):	oints Comprising	g this Emissions (Jnit for VE Tracking	(limit to	
Transfer towers (EU028c,g,i,q,t	t.u) include conv	evor transfer poir	nts. The coal		
And petroleum coke storage but	•	•		he	
storage buildings are EU028. L	-			10	
	amesione storas		70020 u .		
4. ID Numbers or Descriptions	of Emission Un	ita with this Emis	ssion Doint in Comme		
4. ID Numbers of Descriptions	OI Emission on	its with this chiis	SION POINT III COMMIC	m:	
5. Discharge Type Code:	6. Stack Heigh	ht·	7. Exit Diameter:		
	U. Stack Heigh	feet	7. Landidineter.	feet	
F		1661		1661	
8. Exit Temperature:	9. Actual Volu	umetric Flow	10. Water Vapor:		
-		umenic riow	10. water vapor.	0/	
77°F (approx)	Rate:	C		% .	
		acfm	D II . 1 .		
11. Maximum Dry Standard Flo			nission Point Height:		
	dscfm	Varies		feet	
13. Emission Point UTM Coordinates:					
13. Emission roug O IWI Coold	maies.				
Zone: E	ast (km):	Nortl	h (km):		
14. Emission Point Comment (l	imit to 200 char	acters): EU0286	e is for conveyor trans	 sfer	
towers for coal, petroleum coke					
NGS coal and petroleum coke s		• •	•		
limestone storage and reclaim a	-	•			
coke transfer point prior to the				•	
coal/pet coke enclosed storage a	irea. EUUZoi is.	for the new trains	ler tower between the	crusher	
house and the boiler fuel silos.					

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	Emissions	Unit Information Sec	ction 3a	of	16
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E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Ra	te: Segment	_1 of5			
1. Segment Description (Process/Fuel Type) (limit to 500 characters): Vessel unloading activities – coal, pet coke and limestone (EU028a)					
2. Source Classification Code	e (SCC):	3. SCC Units:			
30501099	<i>(300)</i> .	Tons handled			
4. Maximum Hourly Rate:	5. Maximum 2 3,870		6. Estimated Annual Activity Factor:		
7. Maximum % Sulfur:	8. Maximum 9	% Ash:	9. Million Btu per SCC Unit:		
10. Segment Comment (limit to 200 characters): The maximum annual rate is based on handling/usage limits of 2.42 million tons per year coal/petroleum coke and 1.45 million tons					
per year limestone included in construction permit PSD-FL-265.					
Segment Description and Ra	te: Seament	2 of 5			
			owo otomo).		
1. Segment Description (Process/Fuel Type) (limit to 500 characters): Transfer towers – coal, pet coke and limestone (EU028c)					
(2002)					
	(0.0.0)	2 600 II :			
2. Source Classification Code 30501099	e (SCC):	3. SCC Units	s: Tons handled		
4. Maximum Hourly Rate:	5. Maximum A	Annual Rate:	6. Estimated Annual Activity		
	3,870	-	Factor:		
7. Maximum % Sulfur:	8. Maximum %	% Ash:	9. Million Btu per SCC Unit:		
10. Segment Comment (limit t					
handling/usage limits of 2.42 r per year limestone included in					
per year fillestone meraded fil	construction per	Mil 1 5D-1 L-20.	,,		

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Emissions	Unit	Information	Section	3a	of	16	

E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Rate: Segment3_ of5_							
1. Segment Description (Process/Fuel Type) (limit to 500 characters): Limestone handling (EU028d)							
Transfer tower – coal and pet coke (EU028d)							
2. Source Classification Code	e (SCC):	3. SCC Units:					
30501099	T		Tons handled				
4. Maximum Hourly Rate:	5. Maximum 3,87	Annual Rate: 0,000	6. Estimated Annual Activity Factor:				
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit:				
10. Segment Comment (limit to 200 characters): The maximum annual rate is based on handling/usage limits of 2.42 million tons per year coal/petroleum coke and 1.45 million tons per year limestone included in construction permit PSD-FL-265							
Segment Description and Rate: Segment4_ of5_							
Segment Description (Process/Fuel Type) (limit to 500 characters): New enclosed structures for coal and petroleum coke storage and handling (EU028h)							
2. Source Classification Code 30501099	e (SCC):	3. SCC Units:	Tons handled				
4. Maximum Hourly Rate:	5. Maximum 2,420	Annual Rate: 0,000	6. Estimated Annual Activity Factor:				
7. Maximum % Sulfur:	8. Maximum	·	9. Million Btu per SCC Unit:				

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Emissions Unit Information	Section3a	_ of16	
10. Segment Comment (limit handling/usage limits of 2.42 construction permit PSD-FL-2	million tons per y		
E. SEGN	MENT (PROCES	SS/FUEL) INI	FORMATION
	(All Emis	sions Units)	
Segment Description and Ra	ate: Segment	5_ of5_	-
1. Segment Description (Proc Transfer tower – coal and pet	/		
2. Source Classification Cod	e (SCC):	3. SCC Uni	
4. Maximum Hourly Rate:	5. Maximum <i>A</i> 2,420		Tons handled 6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum %		9. Million Btu per SCC Unit
10. Segment Comment (limit handling/usage limits of 2.42 construction permit PSD-FL-2	million tons per y		

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F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollut	ant Emitted	Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
		Bevier code	Bevice data	regulatory code
	•		_	
			_	

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Emissions Unit Information Section	13a	of1	6
Pollutant Detail Information Page	of		

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted:	2. Total Percent Effici	ency of Control:
		,
3. Potential Emissions:		4. Synthetically
lb/hour	tons/year	Limited? []
5. Range of Estimated Fugitive Emissions:		
	to to	ons/year
6. Emission Factor:		7. Emissions
Reference:		Method Code:
8. Calculation of Emissions (limit to 600 chara	ecters):	
Ì		
9. Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 charac	eters): This section is
not completed because this emissions unit does	•	
The state of the s	1	1
Allowable Emissions Allowable Emissions	of	
1. Basis for Allowable Emissions Code:	2. Future Effective D	ate of Allowable
	Emissions:	
3. Requested Allowable Emissions and Units:	4. Equivalent Allowa	ble Emissions:
	lb/hour	tons/year
5. Method of Compliance (limit to 60 characte	rs):	
- '		
6. Allowable Emissions Comment (Desc. of O	perating Method) (limit t	to 200 characters):
o. Allowable Elmissions Comment (Desc. of O	perating inethod) (mint	to 200 characters).

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Emissions Unit Information Section 3a of 1	16	
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H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

(Only Regulated Emissions	onics Subject to a VE Emiliation
Visible Emissions Limitation: Visible Emiss	ions Limitation1 of1
1. Visible Emissions Subtype:	2. Basis for Allowable Opacity:
V05	[] Rule [X] Other
3. Requested Allowable Opacity:	
	xceptional Conditions: %
Maximum Period of Excess Opacity Allow	red: min/hour
4. Method of Compliance: Using EPA Method was conducted to show compliance with the vi	od 9, an initial visible emissions compliance test sible emissions limit.
· · · · · · · · · · · · · · · · · · ·	characters): The 5 percent opacity limit applies and EU028i as described in Section III.G above. Ince determination requirements are included in
(Only Regulated Emissions Units <u>Continuous Monitoring System:</u> Continuous	
1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[] Rule [] Other
4. Monitor Information:	
Manufacturer:	
Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200	O characters):
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Emissions	Unit	Informa	ation	Section	3a	of	16	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

1.	Process Flow Diagram
	[] Attached, Document ID:Attachment C [] 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 [] 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:
	Not Applicable
	[] Not Applicable
6.	Procedures for Startup and Shutdown
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
7.	Operation and Maintenance Plan
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
8.	Supplemental Information for Construction Permit Application
	[] Attached, Document ID: [X] Not Applicable
9.	Other Information Required by Rule or Statute
	[] Attached, Document ID: [X] Not Applicable
10.	Supplemental Requirements Comment: Because excess emissions during periods of startup
	shutdown are not anticipated a Procedures for Startup and Shutdown document is not
req	uired.

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Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [] Not Applicable
15. Acid Rain Part 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:
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable

Emissions Unit Information Section	3b	of	16	
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III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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 (All Emissions Units)

Emissions Unit Description and Status

1. 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).						
process or prod		n addresses, as a single emis es which has at least one defi- gitive emissions.				
L 3		n addresses, as a single emis s which produce fugitive em	•			
2. Regulated or Unr	egulated Emissions Unit	? (Check one)				
[X] The emissions emissions unit.	unit addressed in this Em	nissions Unit Information Sec	ction is a regulated			
[] The emissions emissions unit.	unit addressed in this Em	nissions Unit Information Sec	ction is an unregulated			
handling & storage o		in This Section (limit to 60 cessel unloading operations (IU028p).	•			
	dentification Number:		[] No ID			
ID: 028			[] ID Unknown			
5. Emissions Unit Status Code: A 6. Initial Startup Group SIC Code: 49 8. Acid Rain Unit? Group SIC Code: 49						
9. Emissions Unit Comment: (Limit to 500 Characters) This emissions unit consists of						
limestone handling and storage which are fugitive emission sources.						

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Emissions Unit Information Section	3b	of_	16
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Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method): Particulate matter emissions from this emissions unit will be controlled, on an as needed basis, by the use of wet suppression, water spray, coverings, and/or conditioned materials. Particulate matter emissions from this emissions unit are fugitive emissions.

2. Control Device or Method Code(s): 061, 062, and 054 as needed

Emissions Unit Details

1.	Package Unit:		
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating:	MW	
3.	Incinerator Information: Not applicable		
	Dwell Temperature:		°F
	Dwell Time:		seconds
	Incinerator Afterburner Temperature:		°F

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Emissions	Unit	Information	Section	3b	of	16	

B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput	Rate: 1,450,000 tons per year lime	estone
4. Maximum Production Rate:		
5. Requested Maximum Operating S	chedule:	
2	24 hours/day	7 days/week
	52 weeks/year	8,760 hours/year
6. Operating Capacity/Schedule Comhourly throughputs differ for the differ construction permit number PSD-FL-2 to 1,450,000 tons per year.	rent equipment covered under this e	emissions unit,

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E'miccione	Unit Inform	ation Section	3 h	ΛŤ	16
Lilliagions	CHILLING III	IALIVII DECLIVII	20	VI.	10

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject.	
Applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference.	

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D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on P Flow Diagram? EU028p, E		2. Emission Po	oint Type Code: 4	
3. Descriptions of Emission P 100 characters per point):		_	_	
Limestone storage pile and lime Vessel unloading operations	estone reclaim h	opper (EU028p)a	nd EU028a is for new	NGS
4. ID Numbers or Descriptions	of Emission Un	its with this Emis	ssion Point in Commo	n:
5. Discharge Type Code: F	6. Stack Heig	ht: feet	7. Exit Diameter:	feet
8. Exit Temperature: 77°F (approx)	9. Actual Vol Rate:	umetric Flow acfm	10. Water Vapor:	%
11. Maximum Dry Standard Flo	ow Rate: dscfm		nission Point Height:	eet
13. Emission Point UTM Coord	linates:			
Zone: E	ast (km):	Nort	h (km):	
14. Emission Point Comment (I	imit to 200 char	acters):		

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T	Unit Informati	Castina	21.	- C	16	
r/missions	Unit informati	on Section	วบ	01	10	

E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

	(All Ellis	ssions onns,	
Segment Description and Ra	ite: Segment	_1 of3	
1. Segment Description (Proc Storage pile – limestone (EU0		(limit to 500 ch	aracters):
Storage pile Timestone (E00	20p)		
2. Source Classification Code 30501099	e (SCC):	3. SCC Units	s: Tons handled
4. Maximum Hourly Rate:	5. Maximum A	Annual Rate:	6. Estimated Annual Activity
N/A	1,450		Factor:
7. Maximum % Sulfur:	8. Maximum 9	% Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to	to 200 characters): The maximu	m annual rate is based on
ا ق	million tons per y	ear limestone in	ncluded in construction permit
PSD-FL-265.			
Segment Description and Ra	te: Segment	2 of 3	
Segment Description (Proc			naranters).
			storage operations consisting of
vessel unloading operations (E			er e
2. Source Classification Code	e (SCC):	3. SCC Unit	
30501099 4. Maximum Hourly Rate:	5. Maximum A	 Annual Rate:	Tons handled 6. Estimated Annual Activity
4. Maximum Hourry Rate.	3. Waxiiidii 7		Factor:
7. Maximum % Sulfur:	8. Maximum 9	% Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit t	o 200 characters): The maximu	m annual rate is based on
handling/usage limits of 1.45 r	nillion tons per y	ear limestone in	ncluded in construction permit
PSD-FL-265.			

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Emissions Unit Information Section3b of16					
Segment Description and Rate: Segment 3 of 3					
Segment Description (Prod Vessel unloading activities – c	• • •	`		s):	
2. Source Classification Code 30501099	e (SCC):	3. SCC Units		s handled	
4. Maximum Hourly Rate:	5. Maximum 2 3,870	Annual Rate: 0,000		Estimated Annual Activity Factor:	
7. Maximum % Sulfur:	8. Maximum 9	% Ash:	9. 1	Million Btu per SCC Unit:	
10. Segment Comment (limit thandling/usage limits of 2.42 the per year limestone included in	million tons per y	year coal/petrole	eum co		

3. SCC Units:

5. Maximum Annual Rate:

8. Maximum % Ash:

6. Estimated Annual Activity

9. Million Btu per SCC Unit:

Factor:

10. Segment Comment (limit to 200 characters):

2. Source Classification Code (SCC):

4. Maximum Hourly Rate:

7. Maximum % Sulfur:

Segment Description and Rate: Segment ____ of ___

1. Segment Description (Process/Fuel Type) (limit to 500 characters):

Emissions	Unit	Information	Section	3h	οf	16
CHOROGIUM	O III I		Occuon	20	VI	10

F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
			,
_			

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Emissions Unit Information Section	ı3b	of 16	
Pollutant Detail Information Page	of		

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted:	2. Total Percent Efficiency of Co	ntrol:
3. Potential Emissions: lb/hour	tons/year 4. Synth	-
5. Range of Estimated Fugitive Emissions:		
	to to tons/year	
6. Emission Factor:	7. Emis	
Reference:	Meth	od Code:
8. Calculation of Emissions (limit to 600 chara	acters):	
9. Pollutant Potential/Fugitive Emissions Composition of completed because this emissions unit does	•	
Allowable Emissions Allowable Emissions	of	
Basis for Allowable Emissions Code:	2. Future Effective Date of Allo Emissions:	owable
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emission	ons:
	lb/hour	tons/year
5. Method of Compliance (limit to 60 character	rs):	
(Allowakia Fraissiana Commont (Door of Or	manatina Mathad) (limit to 200 ahan	a at a va)
6. Allowable Emissions Comment (Desc. of Op	perating Method) (IIIIII to 200 char	aciers):

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Emissions	Unit	Information	Section	3h	of	16	
E11016611115	UIIII	IIIIVI Manon	Section	30	UI	10	

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

Visible Emissions Limitation: Visible Emissi	ions Limitation2 of2
1. Visible Emissions Subtype:	2. Basis for Allowable Opacity:
V10	[] Rule [X] Other
3. Requested Allowable Opacity:	
	cceptional Conditions: %
Maximum Period of Excess Opacity Allowe	ed: min/hour
4. Method of Compliance: Using EPA Metho	d 9, an initial visible emissions compliance test
was conducted to show compliance with the vis	sible emissions limit.
1	haracters): The 10 percent opacity limit applies
to EU028p and EU028a as described in Section	_
with compliance determination requirements are	e included in construction permit PSD-FL-263.
	NITOR INFORMATION
(Only Regulated Emissions Units	Subject to Continuous Monitoring)
Continuous Monitoring System: Continuous	Monitor of
1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[] Rule [] Other
4. Monitor Information:	
Manufacturer:	
Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Castinuana Manitan Communit (limit to 200	Note and otherwise.
7. Continuous Monitor Comment (limit to 200	characters):

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Emissions	Unit Information Section	3b	of	16	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

1.	Process Flow Diagram [X] Attached, Document ID:Attachment C[] Not Applicable [] Waiver Requested
2.	Fuel Analysis or Specification [] Attached, Document ID: [X] Not Applicable [] Waiver Requested
3.	Detailed Description of Control Equipment [X] Attached, Document ID:[] Not Applicable [] Waiver Requested
4.	Description of Stack Sampling Facilities [] Attached, Document ID: [X] Not Applicable [] Waiver Requested
5.	Compliance Test Report
	[] Attached, Document ID:
	Previously submitted, Date:
	[] Not Applicable
6.	Procedures for Startup and Shutdown
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
7.	Operation and Maintenance Plan
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
8.	Supplemental Information for Construction Permit Application
	[] Attached, Document ID: [X] Not Applicable
9.	Other Information Required by Rule or Statute
	[] Attached, Document ID: [X] Not Applicable
10.	Supplemental Requirements Comment: Because excess emissions during periods of startup
	shutdown are not anticipated a Procedures for Startup and Shutdown document is not
req	uired.

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Emissions	Unit Inform	nation Section	3b	of	16	

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part 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:
Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable

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	Emissions	Unit	Information	Section	4	of	16
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III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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 (All Emissions Units)

Emissions Unit Description and Status

1. Type of Emission	ns Unit Addressed in Thi	s 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).					
[X] 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.				
2. Regulated or Uni	egulated 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.					
_		in This Section (limit to 60 c	haracters):		
NGS – Crusher Build	ling Baghouse Exhaust.				
	dentification Number:		[] No ID		
ID: 029			[] ID Unknown		
5. Emissions Unit Status Code:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit?		
9. Emissions Unit Comment: (Limit to 500 Characters) This emissions unit consists of					
crushing operations for coal and petroleum coke. This emissions unit was designated NGS – Crusher House in construction permit PSD-FL-265. JEA requests that this emissions unit be					
	usher Building Baghouse	-	s chinssions will oc		

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Emissions	Unit	Information	Section	4	of	16

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method): Particulate matter emissions from the crushers and transfer points in the crusher building are controlled with a single baghouse venting to a single stack.	

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

Emissions Unit Details

1.	Package Unit:		
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating:	MW	
3.	Incinerator Information: Not applicable		
	Dwell Temperature:		°F
	Dwell Time:		seconds
	Incinerator Afterburner Temperature:		°F

Emissions Unit Information Section 4 of 1	01 10
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B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:		mmBtu/hr				
2. Maximum Incineration Rate:	lb/hr	tons/day				
3. Maximum Process or Through	ghput Rate: 2,420,000 tons per year					
4. Maximum Production Rate:						
5. Requested Maximum Operat	ing Schedule:					
	24 hours/day	7 days/week				
	52 weeks/year	8,760 hours/year				
	e Comment (limit to 200 characters): Co	•				

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Emissions	Unit	Information	Section	4	οf	16
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C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject.		
Applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference.		
	_	

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Emissions	Unit	Information	Section	4	of	16

D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on Pl Flow Diagram? EU029	2. Emission Po	oint Type Code: 1		
3. Descriptions of Emission Po 100 characters per point):	oints Comprising	g this Emissions V	Unit for VE Tracking	(limit to
4. ID Numbers or Descriptions	s of Emission Ui	nits with this Emi	ssion Point in Commo	on:
5. Discharge Type Code:	6. Stack Heig 8 (approx)	ht: feet	7. Exit Diameter:	feet
8. Exit Temperature: 77°F (approx)	9. Actual Vol Rate:	umetric Flow acfm	10. Water Vapor:	%
11. Maximum Dry Standard Flo	ow Rate: dscfm	12. Nonstack Emission Point Height: feet		
13. Emission Point UTM Coord	linates:			
Zone: 17 E	ast (km): 446.7:	56 Nort	h (km): 3365.328	
14. Emission Point Comment (I Particulate matter emissions fro controlled with a single baghous	m the crushers a	and transfer point	s in the crusher buildi	ng are

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	Emissions	Unit Information Section	n 4	of	16
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E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Rate:	Segment	1	of	3	
	_		_		-

1. Segment Description (Process/Fuel Type) (limit to 500 characters):						
Crushing Operations – Coal						
	(3.3.3)					
2. Source Classification Cod 30501099	e (SCC):	3. SCC Units	s: Tons processed			
4. Maximum Hourly Rate:	5. Maximum <i>A</i> 2,420		6. Estimated Annual Activity Factor:			
7. Maximum % Sulfur:	8. Maximum %	% Ash:	9. Million Btu per SCC Unit:			
10. Segment Comment (limit	to 200 characters`):	1			
Operation is with either coal of			petroleum coke blend with a			
combined maximum throughp	_		_			
		2 6 2				
Segment Description and Ra	ite: Segment	2 of3				
1. Segment Description (Pro		(limit to 500 cl	naracters):			
Crushing Operations –Petrole	um Coke					
·						
2. Source Classification Code	e (SCC):	3. SCC Unit				
30501099		1.5	Tons processed			
4. Maximum Hourly Rate:	5. Maximum <i>A</i> 2,420		6. Estimated Annual Activity Factor:			
7. Maximum % Sulfur:	8. Maximum %	6 Ash:	9. Million Btu per SCC Unit:			
10. Segment Comment (limit t	to 200 characters)	<u> </u>	<u> </u>			
Operation is with either coal o	•		petroleum coke blend with a			
combined maximum throughp	-		•			
9.1		•				

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Segment Description and Ra	ite: Segment	3 of3					
Segment Description (Process/Fuel Type) (limit to 500 characters): Crushing Operations – Coal/Petroleum Coke Blend							
2. Source Classification Code	e (SCC):	3. SCC Units:					
30501099		Tons processed					
4. Maximum Hourly Rate:	5. Maximum Annual Rate: 2,420,000		6. Estimated Annual Activity Factor:				
7. Maximum % Sulfur:	8. Maximum % Ash:		9. Million Btu per SCC Unit:				
10. Segment Comment (limit t	to 200 characters)	•					
Operation is with either coal o	r petroleum coke	or with a coal/	petroleum coke blend with a				
combined maximum throughp	out of 2,420,000 to	ns per year pe	r Permit PSD-FL-265.				
	, .						

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F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
	_		
	_		
	_		

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Emissions Unit Information Section _	4	_ of _	16_	
Pollutant Detail Information Page		of		

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:
3. Potential Emissions: lb/hour	4. Synthetically tons/year Limited? [
5. Range of Estimated Fugitive Emissions:	
	totons/year
6. Emission Factor:	7. Emissions
Reference:	Method Code:
8. Calculation of Emissions (limit to 600 charac	eters):
9. Pollutant Potential/Fugitive Emissions Comr	
Allowable Emissions Allowable Emissions	of
Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
	lb/hour tons/year
5. Method of Compliance (limit to 60 character	rs):
6. Allowable Emissions Comment (Desc. of Op	perating Method) (limit to 200 characters):

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Emissions	Unit	Information	Section	4	of	16

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

Visible Emissions Limitation: Visible Emissions	<u>-</u>
1. Visible Emissions Subtype: VE05	2. Basis for Allowable Opacity: [] Rule [X] Other
3. Requested Allowable Opacity:	
1 * *	cceptional Conditions: %
Maximum Period of Excess Opacity Allow	1
4. Method of Compliance: Using EPA Method conducted and a 30 minute renewal visible emityears.	
5. Visible Emissions Comment (limit to 200 c	haracters): The visible emissions limit along e included in construction permit PSD-FL-265.
	-
L. CONTINUOUS MO	NITOR INFORMATION
	Subject to Continuous Monitoring)
Continuous Monitoring System: Continuous	•
1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[] Rule [] Other
4. Monitor Information:	
Manufacturer:	
Model Number:	Serial Number:
Model Number: 5. Installation Date:	Serial Number: 6. Performance Specification Test Date:
5. Installation Date:	6. Performance Specification Test Date:
	6. Performance Specification Test Date:
5. Installation Date:	6. Performance Specification Test Date:
5. Installation Date:	6. Performance Specification Test Date:
5. Installation Date:	6. Performance Specification Test Date:

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TH112210112	OHIL	imivi ma	uvu	Section	7	U1	10	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

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

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TH112210112	UHIL	I III VI MIAUVII	Section	7	UI	10	

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12 Alementing Modes of Organities (Enviroling Trading)
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part 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:
Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable

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	Emissions	Unit Informati	on Section	5	of	16	
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III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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 (All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)						
process or production unit, o	[] 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).					
[X] This Emissions Unit Information process or production units a (stack or vent) but may also	nd activities which h	nas at least one defin				
[] This Emissions Unit Information process or production units a		,		•		
2. Regulated or Unregulated Emi	ssions Unit? (Check	one)				
[X] The emissions unit addressed emissions unit.	l in this Emissions U	Init Information Sec	ction	n is a regulated		
[] The emissions unit addressed emissions unit.	l in this Emissions U	Init Information Sec	ction	n is an unregulated		
3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): NGS – Fuel Silo Dust Collectors.						
4. Emissions Unit Identification Number: [] No ID						
ID: 031 [] ID Unknown						
5. Emissions Unit 6. Initial Startup 7. Emissions Unit Major 8. Acid Rain Unit? Status Code: Date: Group SIC Code: [] 49						
9. Emissions Unit Comment: (Limit to 500 Characters): Emissions Unit No. 031 consists of ten fuel silos and two tripper transfer points. There are five fuel silos and one tripper transfer point associated with each of the two CFB units. This emissions unit is designated as NGS – Boiler Fuel Silos in construction permit PSD-FL-265. JEA requests that this emissions unit be designated NGS – Fuel Silo Dust Collectors.						

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Emissions	Unit	Information	Section	5	of	16

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):
Particulate matter emissions from each set of CFB fuel silos are controlled by a baghouse.
Therefore, this emissions unit consists of two baghouses, each venting to it's own stack.
2. Control Device or Method Code(s): 018

Emissions Unit Details

1.	Package Unit:		
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating:	MW	
3.	Incinerator Information: Not applicable		
	Dwell Temperature:		°F
	Dwell Time:		seconds
	Incinerator Afterburner Temperature:		°F

Emissions	Unit I	nform	ation	Section	5	οf	16	
THIIDSIUIS	Uniti	HIIVI III	auvii	Section	J	UI	10	

B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:		mmBtu/hr					
2. Maximum Incineration Rate:	lb/hr	tons/day					
3. Maximum Process or Throughput Rate: 2,420,000 tons per year							
4. Maximum Production Rate:							
5. Requested Maximum Operating Schedule:							
	24 hours/day	7 days/week					
	52 weeks/year	8,760 hours/year					
are fed to the fuel silos from the c	Comment (limit to 200 characters): rusher house. Construction permit roke handling and usage rate to 2.42	number PSD-FL-265					

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	Emissions	Unit	Infor	mation	Section	5	of	16	
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C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject.	
Applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference.	
-	•
	_
	_
	_

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D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

Identification of Point on Please Flow Diagram? EU031	ot Plan or	2. Emission Po	int Type Code: 3	-				
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): The fuel silos dust collector for Unit 1 (DC-03) is located on the tripper floor at the south end of the Unit 1 fuel silos. The fuel silos dust collector for Unit 2 (DC-02) is located in the Plant Transfer Building.								
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:								
5. Discharge Type Code:	6. Stack Heigh	ht: feet	7. Exit Diameter:	feet				
8. Exit Temperature: 77°F (approx)		umetric Flow (DC-03) (approx) approx)	10. Water Vapor:	%				
11. Maximum Dry Standard Flow Rate: dscfm 12. Nonstack Emission Point Height: feet								
13. Emission Point UTM Coord	inates:							
Zone: 17 East (km): 446.823 North (km): 3,365.073								
14. Emission Point Comment (li Particulate matter emissions from venting to it's own stack.		•	ed with two baghouse	s, each				

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Emissions	Unit	Informa	tion	Section	5	of	16	

E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Rate: Segment 1 of 3 1. Segment Description (Process/Fuel Type) (limit to 500 characters): Coal handling/storage 2. Source Classification Code (SCC): 3. SCC Units: 30501099 Tons processed 6. Estimated Annual Activity Maximum Hourly Rate: 5. Maximum Annual Rate: 2,420,000 Factor: 8. Maximum % Ash: Maximum % Sulfur: 9. Million Btu per SCC Unit: 10. Segment Comment (limit to 200 characters): Operation is with either coal or petroleum coke or with a coal/petroleum coke blend with a combined maximum throughput of 2,420,000 tons per year per Permit PSD-FL-265. Segment Description and Rate: Segment ___2_ of 3

l. Pe	1. Segment Description (Process/Fuel Type) (Petroleum coke handling/storage			(limit to 500 ch	narao	cters):
2. Source Classification Code (SCC): 30501099			3. SCC Unit		ons processed	
4.	Maximum Hourly Rate:	5.	5. Maximum Annual Rate: 2,420,000		6.	Estimated Annual Activity Factor:
7.	Maximum % Sulfur:	8. Maximum % Ash:		9.	Million Btu per SCC Unit:	

10. Segment Comment (limit to 200 characters):

Operation is with either coal or petroleum coke or with a coal/petroleum coke blend with a combined maximum throughput of 2,420,000 tons per year per Permit PSD-FL-265.

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Segment Description and Ra	ate: Segment	3 of3						
Segment Description (Pro Coal/Petroleum coke blend has	** /	(limit to 500 cl	naracters):					
2. Source Classification Code (SCC): 3. SCC Units:								
30501099	c (500).	Tons processed						
4. Maximum Hourly Rate:	5. Maximum Annual Rate: 2,420,000		6. Estimated Annual Activity Factor:					
7. Maximum % Sulfur:	8. Maximum % Ash:		9. Million Btu per SCC Unit:					
10. Segment Comment (limit Operation is with either coal combined maximum throughp	or petroleum coke	or a coal/petro						

Emissions Unit Information Section ___5__ of ___16___

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F	missions	Unit	Inform	nation	Section	5	οf	16
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F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
		-	
		_	
-			
		-	
_			

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Emissions Unit Information Section	5	_ of _	16_	
Pollutant Detail Information Page		of		

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:
3. Potential Emissions: lb/hour	4. Synthetically tons/year Limited? []
5. Range of Estimated Fugitive Emissions:	to tons/year
6. Emission Factor: Reference:	7. Emissions Method Code:
8. Calculation of Emissions (limit to 600 chara	ecters):
9. Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 characters):
Allowable Emissions	of
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
	lb/hour tons/year
5. Method of Compliance (limit to 60 character	rs):
6. Allowable Emissions Comment (Desc. of O	perating Method) (limit to 200 characters):

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Emissions	Unit	Information	Section	5	of	16	

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

Visible Emissions Limitation: Visible Emissi	ons Limitation	_ of			
1. Visible Emissions Subtype:	2. Basis for Allowa	ble Opacity:			
VE05	[_] Rule	[X] Other			
3. Requested Allowable Opacity:	-				
Normal Conditions: 5 % Ex	ceptional Conditions:	%			
Maximum Period of Excess Opacity Allowe	ed:	min/hour			
4. Method of Compliance: Using EPA Method 9, a 3-hour initial visible emissions test was					
conducted at both fuel silo dust collector stacks	and a 30 minute rener	wal visible emissions test			
will be conducted once every five years.					
5. Visible Emissions Comment (limit to 200 c	haracters): The visible	e emissions limit along			
with compliance determination requirements are	e included in construc	tion permit PSD-FL-265.			
I. CONTINUOUS MO					
(Only Regulated Emissions Units	Subject to Continuo	us Monitoring)			
Continuous Monitoring System: Continuous	Monitor of				
1. Parameter Code:	2. Pollutant(s):				
3. CMS Requirement:					
	[] Rule	[] Other			
4 Monitor Information:	[] Rule 	[] Other			
4. Monitor Information: Manufacturer:	[] Rule	[] Other			
Manufacturer:					
Manufacturer: Model Number:	Serial Numbe	er:			
Manufacturer:	Serial Numbe				
Manufacturer: Model Number: 5. Installation Date:	Serial Number	er:			
Manufacturer: Model Number:	Serial Number	er:			
Manufacturer: Model Number: 5. Installation Date:	Serial Number	er:			
Manufacturer: Model Number: 5. Installation Date:	Serial Number	er:			
Manufacturer: Model Number: 5. Installation Date:	Serial Number	er:			
Manufacturer: Model Number: 5. Installation Date:	Serial Number	er:			

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Emissions	Unit	Informa	tion	Section	5	οf	16	
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J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

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

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Emissions	Unit Information	Section	5	οf	16	
G1111221A112	Unit inivimation	Section	J	UI	10	

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
[]
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part 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:
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
[] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable

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Emissions Unit Information Section	6	of	16	
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III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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 (All Emissions Units)

Emissions Unit Description and Status

1. 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).					
[X] 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.					
2. 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.					
3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): NGS – Limestone Dryer/Mills					
4. Emissions Unit Identification Number: [] No ID					
ID: 033 [] ID Unknown					
5. Emissions Unit Status Code: A 6. Initial Startup Group SIC Code: 49 7. Emissions Unit Major Group SIC Code: []					
9. Emissions Unit Comment: (Limit to 500 Characters) This emissions unit consists of three limestone dryer/mills (Nos. 1, 2 & 3), each equipped with a baghouse for particulate matter control.					

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Emissions	Unit	Information	Section	6	5	of	16	_

Emissions Unit Control Equipment

Emissions Chit Control Equipment					
1. Control Equipment/Method Description (Limit to 200 characters per device or method): Particulate matter emissions from each of the three separate dryer/mill systems are controlled with a baghouse, exclusive to that dryer/mill system and each baghouse vents to it's own stack. Therefore, this emissions unit consists of three separate emission points.					

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

Emissions Unit Details

1.	Package Unit:		
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating:	MW	
3.	Incinerator Information: Not applicable		
	Dwell Temperature:		°F
Dwell Time: seconds			seconds
	Incinerator Afterburner Temperature:		°F

Emissions Unit Information Section 6)Î	10
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B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	57.9	mmBtu/hr			
2. Maximum Incineration Rate:	lb/hr	tons/day			
3. Maximum Process or Throughput Rate: 1.45 million tons per year					
4. Maximum Production Rate:					
5. Requested Maximum Operat	ing Schedule:				
	24 hours/day	7 days/week			
	52 weeks/year	8,760 hours/year			
by each of the three dryer/mills. handling and usage rate to 1.45 n	Comment (limit to 200 characters): Construction permit PSD-FL-265 lim nillion tons per year. Each dryer/mill mmBtu/hr for a total heat input rate o	its the annual limestone is designed for a			

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Emissions	Unit	Information	Section	6	of	16

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject.	
Applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference.	
. <u>-</u>	

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Emissions Unit Information Section	6	of	16
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D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1.	 Identification of Point on Plot Plan or Flow Diagram? EU033 Emission Point Type Code: 3 					
3.	3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Particulate matter from each of the three separate limestone dryer/mill systems is controlled with a baghouse exclusive to that limestone dryer/mill system and each baghouse vents to it's own stack. Therefore, this emissions unit consists of three emission points.					
4.	ID Numbers or Descriptions	s of Emission U	nits with this Emi		on:	
5.	Discharge Type Code: W	6. Stack Heig	ht: feet	7. Exit Diameter:	feet	
8.	Exit Temperature: 165°F (approx)	9. Actual Vol Rate: 41,000 (app	umetric Flow prox) acfm	10. Water Vapor:	%	
11.	. Maximum Dry Standard Flo	ow Rate: dscfm	12. Nonstack Er	mission Point Height:	feet	
13.	. Emission Point UTM Coord	linates:		·		
	Zone: 17 E	ast (km): 446.7	83 Nortl	h (km): 3,365.239		
14.	Emission Point Comment (I	imit to 200 char	acters):			

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Emissions	Unit Information	Section	6	οf	16	
CHISSIONS	Unit information	Section	U	O1	10	

E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Ra	ite: Segment1	of3				
Segment Description (Prod Limestone dryer/mill – limestone	• • • •	imit to 500 cha	aracters):			
2. Source Classification Code (SCC): 30501099 3. SCC Units: Tons processed						
4. Maximum Hourly Rate:	5. Maximum A 1,420		6. Estimated Annual Activity Factor:			
7. Maximum % Sulfur:	8. Maximum %	δ Ash:	9. Million Btu per SCC Unit:			
Segment Description and Ra	ate: Segment	2 of3				
Segment Description (Pro Natural gas used in limestone		(limit to 500 cl	naracters):			
2. Source Classification Cod 10201401	le (SCC):	3. SCC Unit	ts: illion cubic feet burned			
4. Maximum Hourly Rate: 0.055 (approx)	5. Maximum A 481,8 (a		6. Estimated Annual Activity Factor:			
7. Maximum % Sulfur:	8. Maximum 9	% Ash:	9. Million Btu per SCC Unit: 1,050 (approx)			
10. Segment Comment (limit all three dryers combined.	to 200 characters): The hourly a	and annual fuel use rates are for			

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Emissions	Unit	Inform	ation	Section	6	of	16

E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Ra	te: Segment	3013				
1. Segment Description (Prod Distillate oil use in limestone	· - '	(limit to 500 cha	aracters):			
2 Source Classification Cod	la (SCC)	3. SCC Units				
10201403	, ,					
4. Maximum Hourly Rate:	5. Maximum	•	6. Estimated Annual Activity			
0.41 (approx)	3,623 (approx)	Factor:			
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit:			
0.05			140 (approx)			
	to 200 characters	s): The hourly a	nd annual fuel use rates are for			
all three dryers combined.						
Segment Description and Ra	ite: Segment	of	·			
1. Segment Description (Pro	cess/Fuel Type)	(limit to 500 ch	naracters):			
2 Same Classification Cal	- (CCC)-	3. SCC Unit				
2. Source Classification Cod	e (SCC):	3. SCC Unit	S.			
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6. Estimated Annual Activity Factor:			
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit:			
10. Segment Comment (limit	to 200 character	s):				
		,				

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F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	018		EL
SO2	099		WP
CO	099		NS
NOx	099		NS
PM10	018	-	NS
	-	-	
	-		
_			

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Pollutant Detail Information Page	1	of_	_2	
G. EMISSIONS UNIT	POLLU	JTAN	T DETAIL	INFORMAT

ION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions		
1. Pollutant Emitted: PM	2. Total Percent Efficie 99.94%	ency of Control:
3. Potential Emissions:		4. Synthetically
7.92 lb/hour	34.09 tons/year	Limited? []
5. Range of Estimated Fugitive Emissions:	•	
	to to	ns/year
6. Emission Factor: 80.017 lb/ton		7. Emissions
Reference: AP-42, Section 11.17		Method Code:
AP-42, Section 11.17 emission factor for a prime Hourly PM emissions rate: (3 dryers)(55 ton/hr/dryer)(80.017 lb/ton)(1-0.99 Annual PM emissions rate: (1,420,000 ton/yr)(80.017 lb/ton)(1-0.9994)(ton/9994) 9. Pollutant Potential/Fugitive Emissions Communications	994) = 7.92 lb/hour /2,000 lb) = 34.09 ton/ye	ar
Allowable Emissions Allowable Emissions	of	
1. Basis for Allowable Emissions Code:	2. Future Effective D Emissions:	ate of Allowable
3. Requested Allowable Emissions and Units:	4. Equivalent Allowa	ble Emissions:
	lb/hour	tons/year
5. Method of Compliance (limit to 60 characte	rs):	
		;
6. Allowable Emissions Comment (Desc. of O	perating Method) (limit	to 200 characters):

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Pollutant Detail Information Page	2	of_	2

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

(Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

Potential/Fugitive Emissions						
1. Pollutant Emitted: PM10	2. Total Percent Efficie	ency of Control:				
	99.94%					
3. Potential Emissions:		4. Synthetically				
0.95 lb/hour	4.09 tons/year	Limited? []				
5. Range of Estimated Fugitive Emissions:						
[] 1 [] 2 [] 3	to to	ns/year				
6. Emission Factor: 9.609 lb/ton		7. Emissions				
Reference: AP-42, Section 11.17 Method C						
8. Calculation of Emissions (limit to 600 characters): AP-42, Section 11.17 coal and gas fired rotary kiln PM emission factor adjusted based on average particle size distribution (AP-42, Table 11.17-7) = (80 lb/ton)(0.12) = 9.60 lb/ton AP-42, Section 11.17 primary crusher PM emission factor adjusted based on AP-42, Table B.2.2, category 3 particle size distribution = (0.017 lb/ton)(0.51) = 0.009 Hourly PM ₁₀ emissions rate: (3 dryers)(55 ton/hr/dryer)(9.609 lb/ton)(1-0.9994) = 0.95 lb/hour Annual PM ₁₀ emissions rate: (1,420,000 ton/yr)(9.609 lb/ton)(1-0.9994)(ton/2,000 lb) = 4.09 ton/year 9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):						
Allowable Emissions Allowable Emissions	of					
1. Basis for Allowable Emissions Code:	2. Future Effective Da Emissions:	ate of Allowable				
3. Requested Allowable Emissions and Units:	4. Equivalent Allowa	ble Emissions:				
	lb/hour	tons/year				
5. Method of Compliance (limit to 60 character	rs):					
6. Allowable Emissions Comment (Desc. of O	perating Method) (limit t	to 200 characters):				

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Emissions Unit Information Section 6 of	Emis	ssions	Unit 1	Information	Section	6	of	16	
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H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissi	ons Limitation1 of1					
1. Visible Emissions Subtype:	2. Basis for Allowable Opacity:					
V05	[] Rule [X] Other					
Requested Allowable Opacity: Normal Conditions: 5 % Ex Maximum Period of Excess Opacity Allower	cceptional Conditions: % ed: min/hour					
initial compliance tests for this emissions unit a compliance test while firing fuel oil as required primary source of particulate emissions from the type of fuel fired in the dryer is expected to years, compliance testing while firing fuel oil withan 400 hours in the previous federal fiscal years. 5. Visible Emissions Comment (limit to 200 compliance)	dryers, the initial compliance tests were sts that these compliance tests be accepted as the and waive the requirement to conduct an initial by construction permit PSD-FL-265. The seed dryers is from the drying of the limestone and have a minor affect on opacity. In subsequent will be conducted if fuel oil is fired for more ar. At a minimum, a compliance test will be					
I. CONTINUOUS MONITOR INFORMATION (Only Regulated Emissions Units Subject to Continuous Monitoring)						
Continuous Monitoring System: Continuous	s Monitor of					
1. Parameter Code:	2. Pollutant(s):					
3. CMS Requirement:	[] Rule [] Other					
4. Monitor Information: Manufacturer: Model Number:	Serial Number:					
5. Installation Date:	6. Performance Specification Test Date:					
7. Continuous Monitor Comment (limit to 20)	0 characters):					

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Emissions Unit Information Section 6 of 16	Emissions	Unit Informat	tion Section	6	of	16
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J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

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

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Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part 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:
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
[] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable

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III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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 (All Emissions Units)

Emissions Unit Description and Status

1. Typ	1. Type of Emissions Unit Addressed in This Section: (Check one)						
pr] 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).						
[X] 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.						
2. Reg	gulated or Unre	egulated 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.							
3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):							
NGS –	Limestone Pre	ep Dust Collectors					
		lentification Number:		[] No ID			
ID:	034		[] ID Unknown			
. –	issions Unit tus Code: A	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit?			
		•	Characters) This emissions use used to control emissions				
-	~		trains. This emissions unit is				
		4		_			
Limestone Crusher Conveyor Transfers in construction permit PSD-FL-265. JEA requests that this emissions unit be designated NGS – Limestone Prep Dust Collectors.							

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Emissions	Unit	Information	Section	7	of	16	

Emissions Unit Control Equipment

· · · · · · · · · · · · · · · · · · ·
1. Control Equipment/Method Description (Limit to 200 characters per device or method): Particulate emissions from each of the three separate limestone prep systems are controlled by a separate baghouse for each system vented to it's own stack. Therefore, there are a total of three emission points associated with this emissions unit.
2 Control Device or Method Code(s): 018

Emissions Unit Details

1.	Package Unit:		
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating:	MW	
3.	Incinerator Information: Not applicable		
	Dwell Temperature:		°F
	Dwell Time:		seconds
	Incinerator Afterburner Temperature:		°F

Emissions Unit Information Section	7	of	16	
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B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:		mmBtu/hr				
2. Maximum Incineration Rate:	lb/hr	tons/day				
3. Maximum Process or Throughput Rate: 150 tons per hour (approx)						
4. Maximum Production Rate:						
5. Requested Maximum Operating Schedule:						
	24 hours/day	7 days/week				
	52 weeks/year	8,760 hours/year				
limestone systems is designed to p	Comment (limit to 200 characters): process approximately 50 tons dry croughput rate for this emissions unit	ushed limestone per				

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	Emissions	Unit	Information	Section	7	of	16	
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C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject. Applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference.	
	·

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Emissions Unit Information Section	7	of	16	
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D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1. Identification of Point on P Flow Diagram? EU034	Identification of Point on Plot Plan or Flow Diagram? EU034 2. Emission Point Type Code: 3				
 Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): This emissions unit consists of three baghouse exhaust emission points, each venting through a horizontal exhaust on the West side of the limestone prep building. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: 					
4. ID Numbers or Description	s of Emission Ui	nits with this Emi	ssion Point in Comm	on:	
5. Discharge Type Code:	6. Stack Heig N/A	ht: feet	7. Exit Diameter: N/A	feet	
8. Exit Temperature: N/A°F	9. Actual Vol Rate: 10,500 (ap	umetric Flow	10. Water Vapor: N/A	%	
11. Maximum Dry Standard Fl N/A	ow Rate: dscfm	12. Nonstack E	mission Point Height	feet	
13. Emission Point UTM Coor	dinates:				
Zone: 17	East (km): 446.7	50 Nort	th (km):3,365.233		
14. Emission Point Comment (three separate limestone pr system vented to it's own s associated with this emissi	ep systems are cotack. Therefore,	ontrolled by a sep	arate baghouse for ea	ch	

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E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Rate: Segment 1 of 1 1. Segment Description (Process/Fuel Type) (limit to 500 characters): Limestone transfer 2. Source Classification Code (SCC): 3. SCC Units: 30510105 Tons handled 5. Maximum Annual Rate: 4. Maximum Hourly Rate: 6. Estimated Annual Activity 1,314,000 Factor: 7. Maximum % Sulfur: 8. Maximum % Ash: 9. Million Btu per SCC Unit: 10. Segment Comment (limit to 200 characters): Segment Description and Rate: Segment ____ of 1. Segment Description (Process/Fuel Type) (limit to 500 characters): 2. Source Classification Code (SCC): 3. SCC Units: 4. Maximum Hourly Rate: 5. Maximum Annual Rate: 6. Estimated Annual Activity Factor: 7. Maximum % Sulfur: 8. Maximum % Ash: 9. Million Btu per SCC Unit: 10. Segment Comment (limit to 200 characters):

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Emissions	Unit	Inform	nation	Section	7	of	16
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F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	018		EL
PM10	018		EL
FMIIU	010		EL
			·
		-	

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Emissions Unit Information S	Section	7	of _	16
Pollutant Detail Information	Page	1	of	2

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1 Override 1 agree o Edition on the					
1. Pollutant Emitted: PM	2. Total Percent Efficie 99.94	•			
3. Potential Emissions:		4. Synthetically			
0.40 lb/hour	1.73 tons/year	Limited? []			
5. Range of Estimated Fugitive Emissions:					
	to to	ns/year			
6. Emission Factor: 2.2 lb/ton		7. Emissions			
Reference: AP-42, Section 11.17		Method Code;			
8. Calculation of Emissions (limit to 600 chara	cters):				
Emission factor for product transfer and convey	ing from AP-42 Section	11.17, Table 11.17-4			
PM Hourly emissions rate:	company to the same of the sam				
(6 transfer points)(50 ton/hr)(2.2 lb/ton)(1-0.999	(4) = 0.40 lb/hr				
PM Annual emissions rate:					
(6 transfer points)(50 ton/hr)(2.2 lb/ton)(1-0.999	94)(8,760 hr/yr)(ton/2,000) lb)			
= 1.73 ton/yr					
9. Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 charac	eters):			
	•	,			
Allowable Emissions Allowable Emissions	_1 of1				
1. Basis for Allowable Emissions Code:	2. Future Effective D	ate of Allowable			
OTHER	Emissions				
2. Requested Allowable Emissions and Units:	4. Equivalent Allowa	ble Emissions:			
0.01 grains per dry standard cubic foot	lb/hour	tons/year			
5. Method of Compliance (limit to 60 characte	rs): Using EPA Method	5, an initial			
compliance test will be conducted to show comp	pliance. See Attachment	K – Compliance			
Report and Plan.		-			
_					
6 Allowable Emissions Comment (Desc. of O	nerating Method) (limit	to 200 characters):			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): The particulate matter emissions limit and compliance determination requirements were					
included in construction permit PSD-FL-265.		anomono were			
moraded in construction permit 1 55-1 E-203.					

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Emissions Unit Information Section	7_	01		16
Pollutant Detail Information Page	2	of	f	2
G. EMISSIONS UNIT	POL	LUTA	NT	DETAIL INFORMATION
(Reg	ulate	d Emi	ssio	ns Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions						
1. Pollutant Emitted: PM10	2. Total Percent Efficie	ency of Control:				
	99.9	4%				
3. Potential Emissions:		4. Synthetically				
0.05 lb/hour	0.21 tons/year	Limited? []				
5. Range of Estimated Fugitive Emissions:						
[] 1 [] 2 [] 3 to tons/year						
6. Emission Factor: 0.26 lb/ton		7. Emissions				
Reference: AP-42, Section 11.17		Method Code:				
8. Calculation of Emissions (limit to 600 chara	cters):					
Emission factor for product transfer and convey	ing from AP-42 Section	11.17, Table 11.17-4				
and adjusted based on average particle size distr	ibution data (AP-42, Tab	ole 11.17-7)				
PM ₁₀ Hourly emissions rate:	The substitute of the substitu					
(6 transfer points)(50 ton/hr)(0.26 lb/ton)(1-0.99	(994) = 0.05 lb/hr					
PM ₁₀ Annual emissions rate:	20.4570.7760.1 11.377 10.07	00.113 : :0.01				
(6 transfer points)(50 ton/hr)(0.26 lb/ton)(1-0.99	994)(8,760 hr/yr)(ton/2,00	00 lb) = 0.21 ton/yr				
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):						
Allowable Emissions Allowable Emissions						
1. Basis for Allowable Emissions Code:	2. Future Effective D Emissions	ate of Allowable				
3. Requested Allowable Emissions and Units:		hle Emissions:				
5. Requested Anowable Emissions and Office.	•					
·	lb/hour	tons/year				
5. Method of Compliance (limit to 60 characte	ers):					
	<u>.</u>					
6. Allowable Emissions Comment (Desc. of C	perating Method) (limit	to 200 characters):				

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

	ons Limitation1 of1
1. Visible Emissions Subtype:	2. Basis for Allowable Opacity:
VE05	[] Rule [X] Other
3. Requested Allowable Opacity:	
Normal Conditions: 5 % Ex	cceptional Conditions: %
Maximum Period of Excess Opacity Allowe	ed: min/hour
4. Method of Compliance: Using Method 9, a	n initial compliance test was conducted and a
30 minute renewal visible emissions test will be	
5. Visible Emissions Comment (limit to 200 c with compliance determination requirements ar	
	ONITOR INFORMATION Subject to Continuous Monitoring)
Parameter Code:	2. Pollutant(s):
 Parameter Code: CMS Requirement: Monitor Information: 	2. Pollutant(s):
Parameter Code: CMS Requirement: Monitor Information: Manufacturer:	2. Pollutant(s): [] Rule [] Other
 Parameter Code: CMS Requirement: Monitor Information: Manufacturer: Model Number: 	2. Pollutant(s): [] Rule [] Other Serial Number:
Parameter Code: CMS Requirement: Monitor Information: Manufacturer:	2. Pollutant(s): [] Rule [] Other
 Parameter Code: CMS Requirement: Monitor Information: Manufacturer: Model Number: 	2. Pollutant(s): [] Rule [] Other Serial Number: 6. Performance Specification Test Date:
 Parameter Code: CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date: 	2. Pollutant(s): [] Rule [] Other Serial Number: 6. Performance Specification Test Date:
 Parameter Code: CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date: 	2. Pollutant(s): [] Rule [] Other Serial Number: 6. Performance Specification Test Date:
 Parameter Code: CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date: 	2. Pollutant(s): [] Rule [] Other Serial Number: 6. Performance Specification Test Date:
 Parameter Code: CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date: 	2. Pollutant(s): [] Rule [] Other Serial Number: 6. Performance Specification Test Date:

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J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram	·
[X] Attached, Document ID:Attachment	C[] Not Applicable [] Waiver Requested
2. Fuel Analysis or Specification	
[] Attached, Document ID:[X] Not Applicable [] Waiver Requested
3. Detailed Description of Control Equipment	
[X] Attached, Document ID: Attachment	N[] Not Applicable [] Waiver Requested
4. Description of Stack Sampling Facilities	
[X] Attached, Document ID:Attachment	O[] Not Applicable [] Waiver Requested
5. Compliance Test Report	
[X] Attached, Document ID: Attachment	P
[] Previously submitted, Date:	
[] Not Applicable	
6. Procedures for Startup and Shutdown	X] Not Applicable [] Waiver Requested
[] Attached, Document 15 [7. Thor Applicable [] Walver Requested
7. Operation and Maintenance Plan	******
Attached, Document ID:[X] Not Applicable [] Waiver Requested
8. Supplemental Information for Construction	
[] Attached, Document ID:[X] Not Applicable
9. Other Information Required by Rule or Sta	
[] Attached, Document ID:[X] Not Applicable
10. Supplemental Requirements Comment:	
·	

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Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part 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:
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
[] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable

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III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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 (All Emissions Units)

Emissions Unit Description and Status

1. Type of Emission	s 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).				
[X] 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.				
		n addresses, as a single emiss s which produce fugitive emi	-	
2. Regulated or Unro	egulated 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.				
3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): NGS – Limestone feed silos				
4. Emissions Unit Id	lentification Number:		[] No ID	
ID: 035			[] ID Unknown	
5. Emissions Unit Status Code:	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit?	
9. Emissions Unit Comment: (Limit to 500 Characters) This emissions unit consists of two limestone feed silos and the associated pneumatic transfer systems.				

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Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method): Particulate matter emissions from each of two limestone feed silos and the associated transfer system are controlled with a baghouse exclusive to that silo, which vents to it's own stack. Therefore, this emissions unit consists of two emission points.
2. Control Device or Method Code(s): 018

Emissions Unit Details

1.	Package Unit:		
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating:	MW	,
3.	Incinerator Information: Not applicable		
	Dwell Temperature:		°F
	Dwell Time:		seconds
	Incinerator Afterburner Temperature:		°F

Emissions	Unit	Information	Section	8	of	16	

B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:		mmBtu/hr				
2. Maximum Incineration Rate	e: lb/hr	tons/day				
3. Maximum Process or Throughput Rate: 1.45 million tons per year						
4. Maximum Production Rate:	:					
5. Requested Maximum Opera	ating Schedule:					
	24 hours/day	7 days/week				
	52 weeks/year	8,760 hours/year				
to two limestone feed silos by t FL-265 limits the annual limest	-	Construction permit number PSD-to 1.45 million tons per year.				

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C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject. Applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference.	
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D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1.	Identification of Point on Ple Flow Diagram? EU035	ot Plan or	2. Emission Point Type Code: 3			
3.	3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Particulate matter emissions from each limestone feed silo and associated transfer system are controlled with a baghouse exclusive to that silo, which vents to it's own stack. Therefore, this emissions unit consists of two emission points.					
4.	ID Numbers or Descriptions				on:	
5.	Discharge Type Code: H	6. Stack Heig 130 (appro		7. Exit Diameter: fee	t	
8.	Exit Temperature: 68°F (approx)	9. Actual Vol Rate: 3,200 (appr		10. Water Vapor:	%	
11	. Maximum Dry Standard Flo			mission Point Height:	feet	
13	. Emission Point UTM Coord	linates:			_	
	Zone: 17	ast (km): 446.8	00 Nort	h (km): 3,365.125		
14	. Emission Point Comment (limit to 200 char	racters):			

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E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Rate: Segment1_ of1_					
1. Segment Description (Process/Fuel Type) (limit to 500 characters): Limestone storage feed silos for CFB Boiler No. 2 and CFB Boiler No. 1					
2. Source Classification Cod	le (SCC)	3. SCC Units:			
30510105	. c (550).	J. See omis	Tons handled		
4. Maximum Hourly Rate:	5. Maximum 2 1,314	Annual Rate: 1,000	6. Estimated Annual Activity Factor:		
7. Maximum % Sulfur:	8. Maximum 9	% Ash:	9. Million Btu per SCC Unit:		
10. Segment Comment (limit of for both silos combined. Whit tons stored is given in the SCO handled than tons stored.	le this segment is	for limestone s	torage, tons handled rather than		
Segment Description and Ra	nte: Segment	of			
1. Segment Description (Prod	cess/Fuel Type)	(limit to 500 ch	aracters):		
2. Source Classification Cod	e (SCC):	3. SCC Unit	s:		
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6. Estimated Annual Activity Factor:		
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit:		
10. Segment Comment (limit	to 200 characters	s):			

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Emissions	Unit	Inform	nation	Section	8	of	16	

F. EMISSIONS UNIT POLLUTANTS (All 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
·			

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Pollutant Detail Information Page	1	of	2	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions				
1. Pollutant Emitted: PM	2. Total Percent Efficie	ency of Control:		
3. Potential Emissions: 0.149 lb/hour	0.65 tons/year	4. Synthetically Limited? []		
5. Range of Estimated Fugitive Emissions:				
[] 1 [] 2 [] 3	to to:	ns/year		
6. Emission Factor: 0.00099 (controlled)		7. Emissions		
Reference: AP-42, Section 11.12		Method Code: 4		
8. Calculation of Emissions (limit to 600 characters): Hourly emissions rate: (3 conveyors)(50 ton/hr/unit)(0.00099 lb/ton) = 0.149 lb/hr Annual emissions rate: (3 conveyors)(50 ton/hr/unit)(0.00099 lb/ton)(8,760 hr/yr)(ton/2,000 lb) = 0.65 tons/year				
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Consistent with the application for permit PSD-FL-265, emission factors from AP-42, Section 11.12 were used. The emission factors changed with a 10/01 revision to this Section. Controlled emission factors were used to estimate emissions for this application. Estimated emissions are slightly lower than what was estimated in the PSD permit application.				
Allowable Emissions Allowable Emissions 1. Basis for Allowable Emissions Code:	2. Future Effective D	oto of Alloweble		
RULE	Emissions:	ate of Allowable		
3 Requested Allowable Emissions and Units:	4. Equivalent Allowa	ble Emissions:		
0.01 grains per dry standard cubic foot	lb/hour	tons/year		
5. Method of Compliance (limit to 60 characters): Using EPA Method 5, an initial compliance test will be conducted to show compliance. See Attachment K – Compliance Report and Plan.				
6. Allowable Emissions Comment (Desc. of Comment The particulate matter emissions limit along with included in construction permit PSD-FL-265.		,		

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G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: PM10	2. Total Percent Efficie	ency of Control:
3. Potential Emissions: 0.051 lb/hour	0.22 tons/year	4. Synthetically Limited? []
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3	to to	ns/year
6. Emission Factor: 0.00034 (controlled) Reference: AP-42, Section 11.12		7. Emissions Method Code: 4
8. Calculation of Emissions (limit to 600 chara PM ₁₀ hourly emissions rate: (3 conveyors)(50 ton/hr/unit)(0.00034 lb/ton) = PM ₁₀ annual emissions rate: (3 conveyors)(50 ton/hr/unit)(0.00034 lb/ton)(8,	0.051 lb/hr	= 0.22 tons/year
9. Pollutant Potential/Fugitive Emissions Com the application for permit PSD-FL-265, emissio used. The emission factors changed with a 10/0 factors were used to estimate emissions for this than what was estimated in the PSD permit appl	n factors from AP-42, Se I revision to this Section application. Estimated e	ection 11.12 were a. Controlled emission
Allowable Emissions Allowable Emissions	of	
1. Basis for Allowable Emissions Code:	2. Future Effective D Emissions:	ate of Allowable
3. Requested Allowable Emissions and Units:	4. Equivalent Allowa	ble Emissions:
	lb/hour	tons/year
5. Method of Compliance (limit to 60 characte	rs):	
6. Allowable Emissions Comment (Desc. of O	perating Method) (limit	to 200 characters):

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Emissions Unit Information Section	8	of	16	
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H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

<u>Visible Emissions Limitation:</u> Visible Emission	ons Limitationl ofl				
1. Visible Emissions Subtype:	2. Basis for Allowable Opacity:				
VE05	[] Rule [X] Other				
3. Requested Allowable Opacity:					
Normal Conditions: 5 % Ex	ceptional Conditions: %				
Maximum Period of Excess Opacity Allowe	ed: min/hour				
	<u> </u>				
4. Method of Compliance: Using Method 9, a					
30 minute renewal visible emissions test will be	e conducted once every five years.				
5. Visible Emissions Comment (limit to 200 c	haracters). The visible emissions limit along				
with compliance determination requirements are					
with compliance determination requirements and	e included in construction permit 1 5D-1 E-205.				
I. CONTINUOUS MONITOR INFORMATION (Only Regulated Emissions Units Subject to Continuous Monitoring) Continuous Monitoring System: Continuous Monitor of					
(Only Regulated Emissions Units	Subject to Continuous Monitoring)				
(Only Regulated Emissions Units	Subject to Continuous Monitoring)				
(Only Regulated Emissions Units <u>Continuous Monitoring System:</u> Continuous	Subject to Continuous Monitoring) Monitor of				
(Only Regulated Emissions Units <u>Continuous Monitoring System:</u> Continuous 1. Parameter Code:	Subject to Continuous Monitoring) Monitor of 2. Pollutant(s):				
(Only Regulated Emissions Units Continuous Monitoring System: Continuous 1. Parameter Code: 3. CMS Requirement:	Subject to Continuous Monitoring) Monitor of 2. Pollutant(s):				
(Only Regulated Emissions Units Continuous Monitoring System: Continuous 1. Parameter Code: 3. CMS Requirement: 4. Monitor Information:	Subject to Continuous Monitoring) Monitor of 2. Pollutant(s):				
(Only Regulated Emissions Units Continuous Monitoring System: Continuous 1. Parameter Code: 3. CMS Requirement: 4. Monitor Information: Manufacturer:	Subject to Continuous Monitoring) Monitor of 2. Pollutant(s): [] Rule [] Other				
(Only Regulated Emissions Units Continuous Monitoring System: Continuous 1. Parameter Code: 3. CMS Requirement: 4. Monitor Information: Manufacturer: Model Number: 5. Installation Date:	Subject to Continuous Monitoring) Monitor of 2. Pollutant(s): [] Rule [] Other Serial Number: 6. Performance Specification Test Date:				
(Only Regulated Emissions Units Continuous Monitoring System: Continuous 1. Parameter Code: 3. CMS Requirement: 4. Monitor Information: Manufacturer: Model Number:	Subject to Continuous Monitoring) Monitor of 2. Pollutant(s): [] Rule [] Other Serial Number: 6. Performance Specification Test Date:				
(Only Regulated Emissions Units Continuous Monitoring System: Continuous 1. Parameter Code: 3. CMS Requirement: 4. Monitor Information: Manufacturer: Model Number: 5. Installation Date:	Subject to Continuous Monitoring) Monitor of 2. Pollutant(s): [] Rule [] Other Serial Number: 6. Performance Specification Test Date:				
(Only Regulated Emissions Units Continuous Monitoring System: Continuous 1. Parameter Code: 3. CMS Requirement: 4. Monitor Information: Manufacturer: Model Number: 5. Installation Date:	Subject to Continuous Monitoring) Monitor of 2. Pollutant(s): [] Rule [] Other Serial Number: 6. Performance Specification Test Date:				
(Only Regulated Emissions Units Continuous Monitoring System: Continuous 1. Parameter Code: 3. CMS Requirement: 4. Monitor Information: Manufacturer: Model Number: 5. Installation Date:	Subject to Continuous Monitoring) Monitor of 2. Pollutant(s): [] Rule [] Other Serial Number: 6. Performance Specification Test Date:				
(Only Regulated Emissions Units Continuous Monitoring System: Continuous 1. Parameter Code: 3. CMS Requirement: 4. Monitor Information: Manufacturer: Model Number: 5. Installation Date:	Subject to Continuous Monitoring) Monitor of 2. Pollutant(s): [] Rule [] Other Serial Number: 6. Performance Specification Test Date:				

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J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

1.	Process Flow Diagram
	[X] Attached, Document ID:Attachment C[] Not Applicable [] Waiver Requested
2.	Fuel Analysis or Specification
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
3.	Detailed Description of Control Equipment
	[X] Attached, Document ID:Attachment N [] Not Applicable [] Waive
4.	Description of Stack Sampling Facilities
	[X] Attached, Document ID:Attachment O [] Not Applicable [] Waive
5.	Compliance Test Report
	[X] Attached, Document ID:Attachment P
ļ	[] Previously submitted, Date:
	[] Not Applicable
6.	Procedures for Startup and Shutdown
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
7.	Operation and Maintenance Plan
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
8.	
	[] Attached, Document ID: [X] Not Applicable
9.	Other Information Required by Rule or Statute
	[] Attached, Document ID: [X] Not Applicable
10	. Supplemental Requirements Comment:
1	

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Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation [] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part 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:
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
[] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable

Emissions Unit Information Section	9	of	16
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III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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 (All Emissions Units)

Emissions Unit Description and Status

1.	1. 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).						
[X	[]	process or produ		wl	dresses, as a single emiss nich has at least one defin e emissions.		
[]				dresses, as a single emiss nich produce fugitive emi		•
2.	R	Regulated or Unre	egulated Emissions Unit	' ((Check one)		
[X	[]	The emissions unit.	nit addressed in this Em	issi	ons Unit Information Sec	tion	is a regulated
[[] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.						
3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): NGS – Fly Ash Transport Blower Discharge							
4.		Emissions Unit Id D: 036	lentification Number:			[] No ID] ID Unknown
5.		Emissions Unit Status Code: A	6. Initial Startup Date:	7.	Emissions Unit Major Group SIC Code: 49	8.	Acid Rain Unit?
9. Emissions Unit Comment: (Limit to 500 Characters) This emission unit consists of four fly ash transport blower discharge exhausts with each discharge exhaust passed through a baghouse. This emissions unit is designated as NGS – Waste Bins in construction permit PSD-FL-265 and was projected to consist of two emission points rather than four. JEA requests that this emissions unit be designated NGS – Fly Ash Transport Blower Discharge.							

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Emissions Unit Information Section 9 of	16	
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Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method): Particulate matter emissions from each of the four fly ash transport systems are controlled by use of baghouse dust collectors. Therefore, this emissions unit consists of four emission points.					

Emissions Unit Details

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

1	. Package Unit:			
	Manufacturer:	Model Number:		
2	. Generator Nameplate Rating:	MW		
3	. Incinerator Information: Not applicable			
	Dwell Temperature:		°F	
	Dwell Time:		seconds	
	Incinerator Afterburner Temperature:		°F	_

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B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughp	out Rate:	
4. Maximum Production Rate:		
5. Requested Maximum Operating	g Schedule:	
	24 hours/day	7 days/week
	52 weeks/year	8,760 hours/year
, , ,	Comment (limit to 200 characters): The ction of the fuel ash content and other nent.	<u> </u>

Emissions Unit Information Section 9 of	ΙV	
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C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject.	
Applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference.	

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	Emissions	Unit	Information	Section	9	of	16	
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D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

Identification of Point on Plo Flow Diagram? EU036	ot Plan or	2. Emission Po	oint Type Code: 3		
 Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Particulate matter emissions from each of the four fly ash transport systems are controlled by use of baghouse dust collectors. Therefore, this emissions unit consists of four emission points. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: 					
4. ID Numbers or Descriptions	of Emission Ur	nits with this Emi	ssion Point in Commo	on:	
5. Discharge Type Code:	6. Stack Height 8 (approx)	ht: feet	7. Exit Diameter: NA	feet	
8. Exit Temperature: 150°F (approx)	9. Actual Vol Rate: NA	umetric Flow acfm	10. Water Vapor:	%	
11. Maximum Dry Standard Flow Rate: dscfm 12. Nonstack Emission Point Height: feet					
13. Emission Point UTM Coordinates:					
Zone: 17 East (km): 446.700 North (km): 3,365.100					
14. Emission Point Comment (l	imit to 200 char	acters):			

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Emissions	Unit	Inform	nation	Section	9	οf	16	
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E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Ra	te: Segment1	of2				
1. Segment Description (Process/Fuel Type) (limit to 500 characters): Fly ash transport serving CFB Boiler No. 2 (EU026) and CFB Boiler No. 1 (EU027)						
2. Source Classification Cod 30210205	,	3. SCC Units	s: Tons handled			
4. Maximum Hourly Rate:	5. Maximum Annual Rate:		6. Estimated Annual Activity Factor:			
7. Maximum % Sulfur:	8. Maximum %	% Ash:	9. Million Btu per SCC Unit:			
10. Segment Comment (limit to 200 characters): The actual hourly and annual process rates are a function of the fuel ash content and other operating parameters.						
Segment Description and Ra	ate: Segment	of				
1. Segment Description (Pro						
2. Source Classification Cod		3. SCC Uni	ts:			
4. Maximum Hourly Rate:	5. Maximum A	Annual Rate:	6. Estimated Annual Activity Factor:			
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit:			
10. Segment Comment (limit	to 200 characters):				

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	Emissions	Unit	Information	Section	9	of	16	
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F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
		_	
		<u> </u>	
		1	
		<u> </u>	

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Emissions	Unit Informatio	n Section _	_9	of _	16
Pollutant D	etail Informatio	on Page _		of	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

	tentiable agrice Emissions			
1.	Pollutant Emitted:	2. Total Percent Efficiency of Control:		
3	Potential Emissions:			4. Synthetically
5.	lb/hour		tons/year	Limited? []
5	Range of Estimated Fugitive Emissions:			
٦.			to to	ns/year
6.	Emission Factor:			7. Emissions
0.				Method Code:
	Reference:			4
8.	Calculation of Emissions (limit to 600 chara-	cters	·	1
0.	Calculation of Emissions (mint to 600 chara-	Cicis).	
9.	Pollutant Potential/Fugitive Emissions Com	ment	(limit to 200 charac	ters):
Al	lowable Emissions Allowable Emissions	_1_	_ of1	
1.	Basis for Allowable Emissions Code:	2.	Future Effective Da	ate of Allowable
			Emissions:	
3.	Requested Allowable Emissions and Units:	4.	Equivalent Allowa	ble Emissions:
			lb/hour	tons/year
5.	Method of Compliance (limit to 60 characte	rs):		
	-			
6	Allowable Emissions Comment (Desc. of O	nera	ing Method) (limit 1	
0.	Anomable Emissions Comment (Desc. 01 O	Pera	me memor) (mmit i	.o 200 characters).
	•			

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Emissions	Unit Infe	ormation	Section	9	of	16	

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

(Only Regulated Emissions Ui	nits Subject to a VE Limitation)
Visible Emissions Limitation: Visible Emission	ons Limitation1 of1
1. Visible Emissions Subtype:	2. Basis for Allowable Opacity:
VE05	[X] Rule [] Other
3. Requested Allowable Opacity:	
	ceptional Conditions: %
Maximum Period of Excess Opacity Allowe	ed: min/hour
4. Method of Compliance: Using Method 9, a	
compliance and a 30 minute renewal visible em years.	issions test will be conducted once every five
5. Visible Emissions Comment (limit to 200 cl	•
with compliance determination requirements are	e included in construction permit PSD-FL-265.
	NITOR INFORMATION
(Only Regulated Emissions Units	Subject to Continuous Monitoring)
Continuous Monitoring System: Continuous	Monitor of
1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[] Rule [] Other
4. Monitor Information:	
Manufacturer:	
Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200) characters):
	,
	•

DEP Form No. 62-210.900(1) - Form

Emissions	Unit	Information	Section	9	of	16	
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J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

1.	Process Flow Diagram
	[X] Attached, Document ID: Attachment C [] Not Applicable [] Waiver Requested
2.	Fuel Analysis or Specification
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
3.	Detailed Description of Control Equipment
	[X] Attached, Document ID:Attachment N [] Not Applicable [] Waive
1	Description of Stock Sampling Facilities
4.	Description of Stack Sampling Facilities [] Attached, Document ID: [X] Not Applicable [] Waiver Requested
	[] Attached, Document ID [X] Not Applicable [] Walver Requested
5.	Compliance Test Report
	[X] Attached, Document ID: Attachment P
	Previously submitted, Date:
	Not Applicable
6.	Procedures for Startup and Shutdown
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
7	Operation and Maintenance Plan
/ .	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
8.	
	[] Attached, Document ID: [X] Not Applicable
9.	Other Information Required by Rule or Statute
	[] Attached, Document ID: [X] Not Applicable
10). Supplemental Requirements Comment:

Emissions	Unit	Information	Section	9	of	16	
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Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part 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:
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
[] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable

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III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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 (All Emissions Units)

Emissions Unit Description and Status

1.	Type of Emission	s Unit Addressed in This	Section: (Check one)		
[process or produ		n addresses, as a single emiss hich produces one or more a n point (stack or vent).	, –	
[X	X] 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.				
[•		n addresses, as a single emiss s which produce fugitive emi	-	
2.	Regulated or Unre	egulated Emissions Unit	(Check one)		
[X	The emissions unit.	unit addressed in this Em	issions Unit Information Sec	tion is a regulated	
[] The emissions uemissions unit.	unit addressed in this Em	issions Unit Information Sec	tion is an unregulated	
	Description of Em SS – Fly Ash Silo I		n This Section (limit to 60 c	haracters):	
4.	Emissions Unit Io ID: 037	lentification Number:		[] No ID [] ID Unknown	
5.	Emissions Unit Status Code: A	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit?	
eqı	uipped with bagho	use dust collectors for co	Characters) Both of the two sontrol of particulate matter ensemissions unit consists of the two sontrols.	nissions and each dust	

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Emissions Unit Information Section 10 of	i I	O
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Emissions	Unit	Control	Equi	pment
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1. Control Equipment/Method Description (Limit to 200 characters per device or method): Particulate matter emissions from each of the two separate fly ash silos and associated transfer equipment are controlled with a baghouse independent to that fly ash silo and each baghouse
vents to it's own stack. Therefore, this emissions unit consists of two emission points.
2. Control Device or Method Code(s): 018

Emissions Unit Details

1.	Package Unit:		
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating:	MW	
3.	Incinerator Information: Not applicable		
1	Dwell Temperature:		°F
	Dwell Time:		seconds
	Incinerator Afterburner Temperature:		°F_

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Emissions Unit Information Section 1	U ·	of	16
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B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate:		mmBtu/hr				
2.	Maximum Incineration Rate:	lb/hr	tons/day				
3.	Maximum Process or Through	put Rate:					
4.	Maximum Production Rate:						
5.	5. Requested Maximum Operating Schedule:						
		24 hours/day	7 days/week				
		52 weeks/year	8,760 hours/year				
rate	1 0 1	Comment (limit to 200 characters): The action of the fuel ash content and othe ment.					

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Emissions	Unit	Information	Section	10	of	16	

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject.	
Applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference.	

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Emissions	Unit Information	Section	10	of	16

E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Ra	ie: Segment1	11					
	1. Segment Description (Process/Fuel Type) (limit to 500 characters): Fly ash storage silos serving CFB Boiler No. 2 (EU026) and CFB Boiler No. 1 (EU027)						
3 6 -		,					
			'				
2. Source Classification Cod	e (SCC):	3. SCC Units	:				
30501222			Tons handled				
4. Maximum Hourly Rate:	5. Maximum A	annual Rate:	6. Estimated Annual Activity Factor:				
7. Maximum % Sulfur:	8. Maximum %	6 Ash:	9. Million Btu per SCC Unit:				
storage silos combined. While handled rather than tons stored function of tons handled than	10. Segment Comment (limit to 200 characters): The given throughputs are for both fly ash storage silos combined. While this segment is for fly ash transfer & storage in silos, tons handled rather than tons stored is given in the SCC units field, because emissions are more a function of tons handled than tons stored. The throughput rate is dependent on fuel ash content and operating parameters rather than the fly ash storage system design.						
Segment Description and Ra	ite: Segment	of					
1. Segment Description (Prod	cess/Fuel Type)	(limit to 500 cl	naracters):				
2. Source Classification Cod	e (SCC):	3. SCC Uni	ts:				
4. Maximum Hourly Rate:	5. Maximum A	Annual Rate:	6. Estimated Annual Activity Factor:				
7. Maximum % Sulfur:	8. Maximum % Ash:		9. Million Btu per SCC Unit:				
10. Segment Comment (limit to 200 characters):							

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Emissions	Unit	Infor	mation	Section	10	οf	16	
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F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code

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Pollutant Detail Information Page	of		

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.	Pollutant Emitted:	Total Percent Efficie	ency	of Control:	
	Potential Emissions: lb/hour		tons/year	4.	Synthetically Limited? []
5.	Range of Estimated Fugitive Emissions:			,	
_	[] 1 [] 2 [] 3 Emission Factor:	_	to to	ns/y 7.	
6.	Reference:			/.	Method Code:
9.	Pollutant Potential/Fugitive Emissions Com			eters	s):
<u>Al</u>	lowable Emissions Allowable Emissions		of		
1.	Basis for Allowable Emissions Code:	2.	Future Effective D Emissions:	ate	of Allowable
3.	Requested Allowable Emissions and Units:	4.	Equivalent Allowa	ble	Emissions:
			lb/hour		tons/year
5.	Method of Compliance (limit to 60 character	rs):			
6.	Allowable Emissions Comment (Desc. of O	perat	ing Method) (limit	to 2	00 characters):

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Emissions	Unit Information	Section 1	0	of	16

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

Visible Emissions Limitation: Visible Emissi	ons Limitation1 of1			
1. Visible Emissions Subtype:	2. Basis for Allowable Opacity:			
VE05	[X] Rule [] Other			
3. Requested Allowable Opacity:				
	ceptional Conditions: %			
Maximum Period of Excess Opacity Allowe	ed: min/hour			
4. Method of Compliance: Using Method 9, a 30 minute initial compliance test was				
conducted to show compliance and a 30 minute	_			
conducted once every five years.				
5. Visible Emissions Comment (limit to 200 c	haracters): The visible emissions limit along			
with compliance determination requirements ar	re included in construction permit PSD-FL-265.			
I CONTINUOUS MO	NITOR INFORMATION			
	Subject to Continuous Monitoring)			
Continuous Monitoring System: Continuous				
1. Parameter Code:	2. Pollutant(s):			
3. CMS Requirement:	[] Rule [] Other			
4. Monitor Information:				
Manufacturer:				
Model Number:	Serial Number:			
5. Installation Date:	6. Performance Specification Test Date:			
7. Continuous Monitor Comment (limit to 200 characters):				
7. Commons Montos Common (mine to 20	o characters).			

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J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

_		
ľ	1.	Process Flow Diagram
		[X] Attached, Document ID: Attachment C[] Not Applicable [] Waiver Requested
r	2.	Fuel Analysis or Specification
		[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
	3.	Detailed Description of Control Equipment
		[X] Attached, Document ID:Attachment N [] Not Applicable [] Waiver Requested
	4.	Description of Stack Sampling Facilities
		[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
ſ	5.	Compliance Test Report
		[X] Attached, Document ID:Attachment P
		[] Previously submitted, Date:
		[] Not Applicable
t	6.	Procedures for Startup and Shutdown
l		[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
ľ	7.	Operation and Maintenance Plan
		[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
	8.	Supplemental Information for Construction Permit Application
		[] Attached, Document ID: [X] Not Applicable
ļ	9.	Other Information Required by Rule or Statute
		[] Attached, Document ID: [X] Not Applicable
	10	. Supplemental Requirements Comment:

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Emissions Unit Information Section	10	of	16	
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Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part 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:
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:
[] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:
[X] Not Applicable

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Emissions Unit Information Section	11	of	16	
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III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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 (All Emissions Units)

Emissions Unit Description and Status

1.	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).			
[X	process or produ		addresses, as a single emiss which has at least one definitive emissions.	- 0 1
[n addresses, as a single emiss s which produce fugitive emi	
2.	Regulated or Unre	gulated Emissions Unit?	(Check one)	
[3	[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.			
3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): NGS – Bed Ash Silo Bin Vents				
4.	Emissions Unit Ide ID: 038	entification Number:		[] No ID [] ID Unknown
5.	Emissions Unit Status Code: A	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit?
9.	9. Emissions Unit Comment: (Limit to 500 Characters) Both of the two bed ash silos are equipped with a baghouse dust collector for control of particulate matter emissions and each dust collector has it's own exhaust. Therefore, this emissions unit consists of two emission points.			

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Emissions Unit Information Section 11	of	16
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Emissions Unit Control Equipment

~	Smissions on Squipment				
1.	Control Equipment/Method Description (Limit to 200 characters per device or method): Particulate matter emissions from each of the two separate bed ash storage silos and associated transfer equipment are controlled with a baghouse exclusive to that bed ash silo and each baghouse vents to it's own stack. Therefore, this emissions unit consists of two				
	emission points.				

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

Emissions Unit Details

1.	Package Unit:			
	Manufacturer:	Model Number:		
2.	Generator Nameplate Rating:	MW		1.
3.	Incinerator Information: Not applicable			
	Dwell Temperature:		°F	
	Dwell Time:		seconds	
Incinerator Afterburner Temperature:			°F	

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Emissions Unit Information Section 11	OI .	16
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B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate:		mmBtu/hr
2.	Maximum Incineration Rate:	lb/hr	tons/day
3.	Maximum Process or Through	put Rate:	
4.	Maximum Production Rate:		
5.	Requested Maximum Operatin	g Schedule:	
		24 hours/day	7 days/week
		52 weeks/year	8,760 hours/year
6.		Comment (limit to 200 characte h content and other operating page 15.00 cm.)	,

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Emissions only intermedial Section 11 of 10	nformation Section 11 of 16	11	Unit Information Section	E
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C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all	
Title V sources are presumptively subject.	
Applicable regulations specified in construction permit PSD-FL-265 are	
hereby incorporated by reference.	
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Emissions Unit Information Section	11	of	16	
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D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1.	Identification of Point on Plot Plan or Flow Diagram? EU038 2. Emission Point Type Code: 3							
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Particulate matter emissions from each of two separate bed ash storage silos are controlled with a baghouse exclusive to that bed ash silo and each baghouse vents to it's own stack. Therefore, this emissions unit consists of two emission points.								
4.	4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:							
5.	Discharge Type Code: H	6. Stack Heig 95 (approx		7. Exit Diameter:	feet			
8.	Exit Temperature: 150°F (approx)	9. Actual Volumetric Flow Rate: % 2,500 (approx) acfm						
11. Maximum Dry Standard Flow Rate: dscfm 12. Nonstack Emission Point Height: feet								
13. Emission Point UTM Coordinates:								
Zone: 17 East (km): 446.700 North (km): 3,365.200								
14	. Emission Point Comment (limit to 200 char	racters):					

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Emissions	Unit Information	Section	11	of	16
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E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and R	ate: Segment1	ofl	
Segment Description (Pro Bed ash storage silos serv	• • / •		aracters): nd CFB Boiler No. 1 (EU027)
·			
		•	
2. Source Classification Co 30501222	de (SCC):	3. SCC Units	s: Tons handled
4. Maximum Hourly Rate:	5. Maximum A	nnual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum %	Ash:	9. Million Btu per SCC Unit:
storage in silos, tons hand because emissions are mo	lled rather than ton ore a function of to	s stored is givens handled tha	egment is for bed ash transfer & en in the SCC units field, n tons stored. The throughput neters rather than the bed ash
Segment Description and R			
1. Segment Description (Pro	ocess/Fuel Type)	(limit to 500 cl	haracters):
	•		
2. Source Classification Co	de (SCC):	3. SCC Uni	ts: Tons handled
4. Maximum Hourly Rate:	5. Maximum A	Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum 9	% Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limi	t to 200 characters)):	
			•

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Emissions	Unit Informatio	n Section 11	of 16

F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
			<u>,</u>
	·	·	
		_	
_			
	1.		

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Pollutant Detail Information Page	of		

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:
3. Potential Emissions:	4. Synthetically
	s/year Limited? []
5. Range of Estimated Fugitive Emissions:	
[] 1 [] 2 [] 3	to tons/year
6. Emission Factor:	7. Emissions
Reference:	Method Code:
<u> </u>	
8. Calculation of Emissions (limit to 600 chara	cters):
·	
9. Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 characters):
•	
Allowable Emissions Allowable Emissions	of
1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
	lb/hour tons/year
5. Method of Compliance (limit to 60 characte	rs):
6. Allowable Emissions Comment (Desc. of O	perating Method) (limit to 200 characters):

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

Vis	sible Emissions Limitation: Visible Emissi	ons	Limitation	1 of	£1
1.	Visible Emissions Subtype:	2.	Basis for Allo	wable (Opacity:
	VE05		[] Rule		[X] Other
3.	Requested Allowable Opacity:				
	Normal Conditions: 5 % Ex	cep	ional Condition	ns:	%
	Maximum Period of Excess Opacity Allowe	ed:			min/hour
4.	Method of Compliance: Using Method 9, a			_	
	conducted to show compliance with the 5 p			and a 3	30 minute renewal
	visible emissions test will be conducted one				
5.	Visible Emissions Comment (limit to 200 c		•		
	along with compliance determination require	eme	nts are include	d in cor	istruction permit
	PSD-FL-265.				
<u>C</u>	I. CONTINUOUS MO (Only Regulated Emissions Units ontinuous Monitoring System: Continuous	Sul	oject to Contin	uous N	
_	(Only Regulated Emissions Units	Sul Mo	oject to Contin	uous N	
1.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code:	Sul Mo	nitor of	uous N	
1.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code:	Sul Mo	nitor of Pollutant(s):	uous N	Monitoring)
3.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: CMS Requirement:	Sul Mo	nitor of Pollutant(s):	uous N	Monitoring)
1. 3. 4.	Only Regulated Emissions Units Ontinuous Monitoring System: Continuous Parameter Code: CMS Requirement: Monitor Information: Manufacturer: Model Number:	Sul Mo	nitor of Pollutant(s):	luous N	Monitoring)
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: CMS Requirement: Monitor Information: Manufacturer:	Mo 2.	piect to Continuitor of Pollutant(s): Rule Serial Nu	luous M	Monitoring)
1. 3. 4.	Only Regulated Emissions Units Ontinuous Monitoring System: Continuous Parameter Code: CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	Sul Mo 2.	Pollutant(s): Rule Serial Nur Performance	luous M	Monitoring)
1. 3. 4.	Only Regulated Emissions Units Ontinuous Monitoring System: Continuous Parameter Code: CMS Requirement: Monitor Information: Manufacturer: Model Number:	Sul Mo 2.	Pollutant(s): Rule Serial Nur Performance	luous M	Monitoring)
1. 3. 4.	Only Regulated Emissions Units Ontinuous Monitoring System: Continuous Parameter Code: CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	Sul Mo 2.	Pollutant(s): Rule Serial Nur Performance	luous M	Monitoring)
1. 3. 4.	Only Regulated Emissions Units Ontinuous Monitoring System: Continuous Parameter Code: CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	Sul Mo 2.	Pollutant(s): Rule Serial Nur Performance	luous M	Monitoring)
1. 3. 4.	Only Regulated Emissions Units Ontinuous Monitoring System: Continuous Parameter Code: CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	Sul Mo 2.	Pollutant(s): Rule Serial Nur Performance	luous M	Monitoring)
1. 3. 4.	Only Regulated Emissions Units Ontinuous Monitoring System: Continuous Parameter Code: CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	Sul Mo 2.	Pollutant(s): Rule Serial Nur Performance	luous M	Monitoring)

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J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

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

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Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part 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:
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
[] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable

Emissions	Unit	Information	Section	12	of	16	

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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 (All Emissions Units)

Emissions Unit Description and Status

1.	Type of Emissions	s 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).						
[X	[X] 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.						
2.	2. Regulated or Unregulated Emissions Unit? (Check one)						
[X	[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.						
ĺ	[] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.						
3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): NGS – AQCS Pebble Lime Silo Bin Vent							
1		lentification Number:		[] No ID			
	ID: 042			[] ID Unknown			
5.	Emissions Unit Status Code: A	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit?			
9.	Emissions Unit C pebble lime stora	•	Characters): Emissions Unit	No. 042 consists of one			

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Emissions	Unit	Information	n Section	12	of	16	
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Emissions Unit Control Equipment

1.	Control Equipment/Method Description (Limit to 200 characters per device or method): Particulate matter emissions from the pebble lime storage silo are controlled with a baghouse which vents to a single stack.
	Control Daviss on Mathed Code(s), 019
2.	Control Device or Method Code(s): 018

Emissions Unit Details

1.	Package Unit:		
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating:	MW	
3.	Incinerator Information: Not applicable		
	Dwell Temperature:		°F
	Dwell Time:		seconds
	Incinerator Afterburner Temperature:		°F

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B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate:		mmBtu/hr
2.	Maximum Incineration Rate:	lb/hr	tons/day
3.	Maximum Process or Through	put Rate:	
4.	Maximum Production Rate:		-
5.	Requested Maximum Operatir	ng Schedule:	
		24 hours/day	7 days/week
	•	52 weeks/year	8,760 hours/year
6.	Operating Capacity/Schedule (loading system is designed to	Comment (limit to 200 characters): operate at 20 tons per hour.	The pebble lime silo

Emissi	ons Uni	t Inforn	ation S	Section	12	of	16	
T:1111221	uns cm	L 11111V1 11	IAUVII	Jechon	14	UI	10	

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject.	
Applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference.	
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Emissions	Unit Information	Section	12	of	16

D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

Identification of Point on Plot Plan or Flow Diagram? EU042		2. Emission Po	int Type Code: 1		
3.	Descriptions of Emission Po 100 characters per point):	oints Comprising	g this Emissions (Jnit for VE Tracking	(limit to
4.	ID Numbers or Descriptions				on:
5.	Discharge Type Code: V	6. Stack Heig 70 (approx		7. Exit Diameter:	feet
8.	Exit Temperature: 80°F (approx)	9. Actual Vol Rate: 1,500 (app	umetric Flow prox) acfm	10. Water Vapor:	%
11	11. Maximum Dry Standard Flow Rate: dscfm 12. Nonstack Emission Point Height: feet				
13	. Emission Point UTM Coord	linates:			
	Zone: 17 E	ast (km): 446.7	00 Nort	h (km): 3,365.200	
14	Emission Point Comment (limit to 200 char	racters):		

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Emissions Unit Information Section 12	of	16
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E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Seg	Segment Description and Rate: Segmentl ofl				
1.	1. Segment Description (Process/Fuel Type) (limit to 500 characters): Pebble lime storage				
2.	2. Source Classification Code (SCC): 3. SCC Units:				
_,	30501222	()-		Tons handled	
4.	Maximum Hourly Rate:	5. Maximum	Annual Rate:	6. Estimated Annual Activity Factor:	
7.	7. Maximum % Sulfur: 8. Maximum % Ash: 9. Million Btu per SCC Unit			9. Million Btu per SCC Unit:	
10.	10. Segment Comment (limit to 200 characters): While this segment is for pebble lime storage, tons handled rather than tons stored is given in the SCC units field, because emissions are more a function of tons handled than tons stored.				
Se	gment Description and Ra			_	
1.	Segment Description (Prod	cess/Fuel Type)	(limit to 500 cl	naracters):	
2.	Source Classification Cod	e (SCC):	3. SCC Uni	ts:	
4.	Maximum Hourly Rate:			6. Estimated Annual Activity Factor:	
7.					
10	10. Segment Comment (limit to 200 characters):				
1					

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F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code

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Pollutant Detail Information Page	of	
I ondiant Detail Information I age		

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.	1. Pollutant Emitted:		2. Total Percent Efficiency of Control:			
3.	Potential Emissions:			4.	Synthetically	
	lb/hour		tons/year		Limited? []	
5.	Range of Estimated Fugitive Emissions:					
	[] 1 [] 2 [] 3		to to:	ns/y	ear	
6.	Emission Factor:			7.	Emissions	
	Reference:				Method Code:	
8.	Calculation of Emissions (limit to 600 chara	cter	s):			
9.	Pollutant Potential/Fugitive Emissions Com	men	t (limit to 200 charac	eters	s):	
<u>A</u> l	llowable Emissions Allowable Emissions		_ of			
1.	Basis for Allowable Emissions Code:	2.	Future Effective D Emissions:	ate	of Allowable	
3.	Requested Allowable Emissions and Units:	4.	Equivalent Allowa	ble	Emissions:	
			lb/hour		tons/year	
5.	5. Method of Compliance (limit to 60 characters):					
6.	Allowable Emissions Comment (Desc. of C	pera	ating Method) (limit	to 2	00 characters):	

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Emissions	Unit Informat	ion Section	12	of	16	
CHOICEHHIL	Chit thirt mat	TON SCCION	14	VI.	10	

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

(Only Regulated Emissions Units Subject to a VE Limitation) Visible Emissions Limitation: Visible Emissions Limitation 1 of 1 1. Visible Emissions Subtype: 2. Basis for Allowable Opacity: VE05 [X] Rule 1 Other 3. Requested Allowable Opacity: Normal Conditions: 5 % **Exceptional Conditions:** % Maximum Period of Excess Opacity Allowed: min/hour 4. Method of Compliance: Using Method 9, a 30 minute initial compliance test was conducted to show compliance with the visible emissions limit and a 30 minute renewal visible emissions test will be conducted once every five years. 5. Visible Emissions Comment (limit to 200 characters): The visible emissions standard along with compliance determination requirements are included in construction permit PSD-FL-265. I. CONTINUOUS MONITOR INFORMATION (Only Regulated Emissions Units Subject to Continuous Monitoring) Continuous Monitoring System: Continuous Monitor of _____ 1. Parameter Code: 2. Pollutant(s): 3. CMS Requirement:] Rule] Other 4. Monitor Information: Manufacturer: Model Number: Serial Number: 5. Installation Date: 6. Performance Specification Test Date: 7. Continuous Monitor Comment (limit to 200 characters):

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J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

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

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Emissions	Unit	Information	Section	12	of	16

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part 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:
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
[] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable

	Emissions	Unit Information	Section	13	of	16
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III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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 (All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)					
	ction addresses, as a single emissions unit, a single y, which produces one or more air pollutants and ssion point (stack or vent).				
	ction addresses, as a single emissions unit, a group of rities which has at least one definable emission point fugitive emissions.				
2	ction addresses, as a single emissions unit, one or more rities which produce fugitive emissions only.				
2. Regulated or Unregulated Emissions U	Init? (Check one)				
[X] The emissions unit addressed in this emissions unit.	Emissions Unit Information Section is a regulated				
[] The emissions unit addressed in this emissions unit.	-				
 Description of Emissions Unit Addressed in This Section (limit to 60 characters): NGS – Fly Ash Slurry Mix System Vents. 					
4. Emissions Unit Identification Number ID: 051	: [] No ID [] ID Unknown				
5. Emissions Unit Status Code: Date:	7. Emissions Unit Major 8. Acid Rain Unit? Group SIC Code: [] 49				
9. Emissions Unit Comment: (Limit to 500 Characters): This emission Unit consists of two (2) fly ash slurry mix system vents. Each fly ash slurry mix system services fly ash in one of the two fly ash silos and is located in the fly ash silo structures. Emissions from the Fly Ash Slurry Mix System Vents are controlled by a wet scrubber followed by a baghouse. This emissions unit is designated as NGS – Fly Ash Silo Pre-Mixers in construction permit PSD-FL-265A. JEA requests that this emissions unit be designated NGS – Fly Ash Slurry Mix System Vent					

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Emissions Unit Control Equipment						
1. Control Equipment/Method Description (Limit to 200 characters per device or method): Particulate matter from the fly ash slurry mix system are controlled by a wet scrubber followed by a baghouse.						

Emissions Unit Details

1.	Package Unit:		
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating:	MW	
3.	Incinerator Information: Not applicable		
	Dwell Temperature:		°F
	Dwell Time:		seconds
	Incinerator Afterburner Temperature:		°F

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2. Control Device or Method Code(s): 013 and 018

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B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate:		mmBtu/hr
2.	Maximum Incineration Rate:	lb/hr	tons/day
3.	Maximum Process or Through	put Rate:	
4.	Maximum Production Rate:		
5.	Requested Maximum Operatin	ng Schedule:	
		24 hours/day	7 days/week
	•	52 weeks/year	8,760 hours/year
6.	Operating Capacity/Schedule (Comment (limit to 200 characters):	
		•	
			·

Emissions Unit Information Section	13	of	16	
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C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject.	
Applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference.	
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Emi	ecions	Unit	Inform	ation	Section	13	οf	16	
		CHIL	_	****		10	VI.		

D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

Identification of Point on Ple Flow Diagram? EU051	lentification of Point on Plot Plan or low Diagram? EU051 2. Emission Point Type Code: 3			
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Two (2) fly ash slurry mix system vents. 4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:				
4. ID Numbers or Descriptions	of Emission Ur	nits with this Emi	ssion Point in Comm	on:
5. Discharge Type Code: H	6. Stack Height NA	ht: feet	7. Exit Diameter: NA	feet
8. Exit Temperature: NA °F	9. Actual Vol Rate: NA	umetric Flow acfm	10. Water Vapor:	%
11. Maximum Dry Standard Flo	w Rate: dscfm	12. Nonstack E	mission Point Height:	feet
13. Emission Point UTM Coord	linates:			
Zone: 17 E	ast (km): 446.7	00 Nort	th (km): 3,365.100	
14. Emission Point Comment (I	imit to 200 char	acters):		

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E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Ra	Segment Description and Rate: Segment 1 of 1				
Segment Description (Process/Fuel Type) (limit to 500 characters): Fly ash silo mix systems					
2. Source Classification Cod 30501222	e (SCC):	3. SCC Units:	Tons handled		
4. Maximum Hourly Rate:	5. Maximum A	Annual Rate:	6. Estimated Annual Activity Factor:		
7. Maximum % Sulfur:	8. Maximum 9	% Ash:	9. Million Btu per SCC Unit:		
10. Segment Comment (limit)	to 200 characters);			
Segment Description and Ra	ite: Segment	of			
1. Segment Description (Prod					
2. Source Classification Cod	e (SCC):	3. SCC Unit	s: 		
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6. Estimated Annual Activity Factor:		
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit:		
10. Segment Comment (limit	to 200 characters	s):			

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F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	Primary Control Device Code	Secondary Control Device Code	4. Pollutant Regulatory Code
	Device Code	Device Code	Regulatory Code
		-	
	-		
			,

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Emissions Unit Information Section	ı13 of	16	
Pollutant Detail Information Page	of		

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted	:	2. Total Percent Eff	iciency of Control:
3. Potential Emission	ens:		4. Synthetically
	lb/hour	tons/year	Limited? []
5. Range of Estimat	ed Fugitive Emissions:		
[] 1	[] 2 [] 3	to	_tons/year
6. Emission Factor:			7. Emissions
Reference:			Method Code:
8. Calculation of Er	nissions (limit to 600 char	acters):	
		•	
9. Pollutant Potenti	al/Fugitive Emissions Con	nment (limit to 200 cha	aracters):
Allowable Emission	s Allowable Emissions _	of	
1. Basis for Allowa	ble Emissions Code:	2. Future Effective	e Date of Allowable
		Emissions:	
3. Requested Allowa	ble Emissions and Units:	4. Equivalent Allo	owable Emissions:
		lb/hor	ur tons/year
5. Method of Comp	oliance (limit to 60 charact	ers):	: .
6. Allowable Emiss	sions Comment (Desc. of (Operating Method) (lin	nit to 200 characters):

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Emissions out into mation section as of to	on Section 13 of 16	Unit Information Section	Emissions i
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H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

	sible Emissions Limitation: Visible Emissi	ons i	Limitation1	of1
1.	Visible Emissions Subtype:	2.	Basis for Allowable	Opacity:
	VE05		[X] Rule	[] Other
3.	Requested Allowable Opacity:			
	Normal Conditions: 5 % Ex	cept	ional Conditions:	%
	Maximum Period of Excess Opacity Allowe	ed:		min/hour
4.	Method of Compliance: Using Method 9, a			
	compliance with the visible emissions limit	and	a renewal visible em	issions test will be
	conducted once every five years.			
5.	Visible Emissions Comment (limit to 200 c			
ł	along with compliance determination require	reme	nts are included in co	onstruction permit
	PSD-FL-265A.			
L				
<u>Co</u>	I. CONTINUOUS MO (Only Regulated Emissions Units ontinuous Monitoring System: Continuous	Sub	oject to Continuous	Monitoring)
1.	Parameter Code:			
	i arameter Code.	2.	Pollutant(s):	-
-			Pollutant(s):	
3.	CMS Requirement:		Pollutant(s):] Rule [] Other
] Other
	CMS Requirement:] Other
	CMS Requirement: Monitor Information:] Other
4.	CMS Requirement: Monitor Information: Manufacturer:	[] Rule [•
4.	CMS Requirement: Monitor Information: Manufacturer: Model Number:	[] Rule [•
4.5.	CMS Requirement: Monitor Information: Manufacturer: Model Number:	6.] Rule [Serial Number: Performance Special	•
4.5.	CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	6.] Rule [Serial Number: Performance Special	•
4.5.	CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	6.] Rule [Serial Number: Performance Special	•
4.5.	CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	6.] Rule [Serial Number: Performance Special	•
4.5.	CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	6.] Rule [Serial Number: Performance Special	•
4.5.	CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	6.] Rule [Serial Number: Performance Special	•

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	Emissions	Unit Information	Section	13	of	16
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J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

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

Emissions Unit Information Section 13 of 16	Em	issions	Unit	Inform	ation	Section	13	of	16
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Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part 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:
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
[] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable

Emissions Chit Inivination Section 17 of 10	Emissions	Unit Information	Section	14	of	16
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III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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 (All Emissions Units)

Emissions Unit Description and Status

1.	Type of Emission	s 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).					
[X	process or produ		n addresses, as a single emiss s which has at least one defir itive emissions.			
[-		n addresses, as a single emiss s which produce fugitive em			
2.	Regulated or Unro	egulated Emissions Unit	? (Check one)			
[X	The emissions unit.	unit addressed in this Em	issions Unit Information Sec	ction is a regulated		
[] The emissions unit.	unit addressed in this Em	issions Unit Information Sec	ction is an unregulated		
	•	nissions Unit Addressed i ry Mix System Vents	n This Section (limit to 60 c	haracters):		
4.		lentification Number:		[] No ID		
	ID: 052			[] ID Unknown		
5.	Emissions Unit Status Code: A	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit?		
		`	Characters): This emission U	` ,		
	•		mix system services bed ash	The first term of the contract		
	a discount on a second of the second		lo structures. Emissions from the structures. Emissions from ubber followed by a baghous			
	is designated as NGS – Bed Ash Silo Mixers in construction permit PSD-FL-265A. JEA requests that this emissions unit be designated NGS – Bed Ash Slurry Mix System Vent.					

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Emissions	Unit	Information	Section	14	of	16	

Emissions Unit Control Equipment

	Control Equipment/Method Description (Limit to 200 characters per device or method): ticulate matter from the bed ash slurry mix systems are controlled by a wet scrubber
foll	owed by a baghouse.
2	Control Device or Method Code(s): 013 and 018
۲.	Control 20 Control of Contro

Emissions Unit Details

1.	Package Unit:		
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating:	MW	
3.	Incinerator Information: Not applicable		
	Dwell Temperature:		°F
	Dwell Time:		seconds
	Incinerator Afterburner Temperature:		°F

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Emissions Unit Information Section	14	of	16
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B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate:		mmBtu/hr					
2.	Maximum Incineration Rate:	lb/hr	tons/day					
3.	. Maximum Process or Throughput Rate:							
4.	Maximum Production Rate:	-						
5.	Requested Maximum Operatin	g Schedule:						
		24 hours/day	7 days/week					
		52 weeks/year	8,760 hours/year					
6.	Operating Capacity/Schedule (Comment (limit to 200 character	s):					

Emissions	Unit In	formation	Section	14	of	16

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations	
hereby incorporates by reference the Title	
V core list of applicable regulations that all	
Title V sources are presumptively subject.	•
Applicable regulations specified in	
construction permit PSD-FL-265 are	
hereby incorporated by reference.	
nereny mentipotated by reference.	
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Emissions Unit Information Section	14	of	16	
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D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1.	Identification of Point on Pl Flow Diagram? EU052	fication of Point on Plot Plan or Diagram? EU052		2. Emission Point Type Code: 3			
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Two (2) bed ash slurry mix systems vents							
	4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:						
4.	Discharge Type Code: H	6. Stack Heig NA	ht: feet	7. Exit Diameter NA	: feet		
8.	Exit Temperature: NA °F	9. Actual Vol Rate: NA	umetric Flow acfm	10. Water Vapor:	%		
11. Maximum Dry Standard Flow Rate: dscfm 12. Nonstack Emission Point Height: feet							
13	. Emission Point UTM Coord	dinates:					
	Zone: 17 E	ast (km): 446.7	00 Nort	h (km): 3,365.100			
14	. Emission Point Comment (limit to 200 char	racters):				

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Emissions Unit Information Section 14	of	16
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E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Ra	ite: Segment	l ofl				
Segment Description (Process/Fuel Type) (limit to 500 characters): Bed ash slurry mix systems						
2. Source Classification Coo 30501222	de (SCC):	3. SCC Units	: Tons handled			
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6. Estimated Annual Activity Factor:			
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit:			
10. Segment Comment (limit	to 200 characters	s):				
Segment Description and Ra						
1. Segment Description (Pro	cess/Fuel Type)	(limit to 500 ch	naracters):			
2. Source Classification Cod	le (SCC):	3. SCC Uni	ts:			
4. Maximum Hourly Rate:	5. Maximum	Annual Rate:	6. Estimated Annual Activity Factor:			
7. Maximum % Sulfur:	8. Maximum	% Ash:	9. Million Btu per SCC Unit:			
10. Segment Comment (limit	to 200 character	s):				

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Emissions Unit Information Section 14 of	10	
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F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
		·	

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Pollutant Detail Information Page	of		

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

	· · · · · · · · · · · · · · · · · · ·				
1.	Pollutant Emitted:	2. Total Percent Efficiency of Control:			
3.	Potential Emissions:			4. Synthetically	
	lb/hour		tons/year	Limited? []	
5.	Range of Estimated Fugitive Emissions:		J		
			to to	ns/year	
6.	Emission Factor:	_		7. Emissions	
	Reference:			Method Code:	
	Kelefelice.				
8. Calculation of Emissions (limit to 600 characters):					
9.	9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):				
				•	
Allowable Emissions of					
1.	Basis for Allowable Emissions Code:		Future Effective Da	ate of Allowable	
			Emissions:		
3.	Requested Allowable Emissions and Units:	4.	Equivalent Allowa	ble Emissions:	
			1b/hour	tons/year	
5	5. Method of Compliance (limit to 60 characters):				
(
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):					
or and series series (2000) or operating method) (mint to 200 onatables).					

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Emissions only intolliation occurred by the to	Emissions	Unit Information Section	14	of	16	
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H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

	sible Emissions Limitation: Visible Emissi	ons Limitation1	of1		
1.	Visible Emissions Subtype:	2. Basis for Allowable	Opacity:		
	VE05	[X] Rule	[] Other		
3.	Requested Allowable Opacity:				
	Normal Conditions: 5 % Ex	cceptional Conditions:	%		
	Maximum Period of Excess Opacity Allow	ed:	min/hour		
4.	Method of Compliance: Using Method 9, a				
	compliance with the visible emissions limit	and a renewal 30-minute	visible emissions test		
_	will be conducted once every five years.				
5.	Visible Emissions Comment (limit to 200 c				
ļ	along with compliance determination require	rements are included in co	onstruction permit		
	PSD-FL-265A.				
	•				
	I. CONTINUOUS MO	NITOR INFORMATION)N		
		NITOR INFORMATION Subject to Continuous			
<u>C</u>	I. CONTINUOUS MO (Only Regulated Emissions Units ontinuous Monitoring System: Continuous	Subject to Continuous	Monitoring)		
<u>Co</u>	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous	Subject to Continuous	Monitoring)		
-	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous	Subject to Continuous Monitor of	Monitoring)		
3.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: CMS Requirement:	Monitor of 2. Pollutant(s):	Monitoring)		
1.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: CMS Requirement: Monitor Information:	Monitor of 2. Pollutant(s):	Monitoring)		
3.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: CMS Requirement: Monitor Information: Manufacturer:	Subject to Continuous Monitor of 2. Pollutant(s): [] Rule [Monitoring)		
1. 3. 4.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: CMS Requirement: Monitor Information: Manufacturer: Model Number:	Subject to Continuous Monitor of 2. Pollutant(s): [] Rule [Serial Number:	Monitoring) Other		
3.	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: CMS Requirement: Monitor Information: Manufacturer: Model Number:	Subject to Continuous Monitor of 2. Pollutant(s): [] Rule [Monitoring) Other		
 3. 4. 5. 	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	Subject to Continuous Monitor of 2. Pollutant(s): [] Rule [Serial Number: 6. Performance Speci	Monitoring) Other		
 3. 4. 5. 	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: CMS Requirement: Monitor Information: Manufacturer: Model Number:	Subject to Continuous Monitor of 2. Pollutant(s): [] Rule [Serial Number: 6. Performance Speci	Monitoring) Other		
 3. 4. 5. 	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	Subject to Continuous Monitor of 2. Pollutant(s): [] Rule [Serial Number: 6. Performance Speci	Monitoring) Other		
 3. 4. 5. 	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	Subject to Continuous Monitor of 2. Pollutant(s): [] Rule [Serial Number: 6. Performance Speci	Monitoring) Other		
 3. 4. 5. 	(Only Regulated Emissions Units ontinuous Monitoring System: Continuous Parameter Code: CMS Requirement: Monitor Information: Manufacturer: Model Number: Installation Date:	Subject to Continuous Monitor of 2. Pollutant(s): [] Rule [Serial Number: 6. Performance Speci	Monitoring) Other		

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J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

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

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Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part 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:
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
[] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable

Emissions Unit Imol mation Section 13 of 10	Emissions	Unit Information Se	ection 15	of 16	
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III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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 (All Emissions Units)

Emissions Unit Description and Status

1.	Type of Emission	s Unit Addressed in This	Section: (Check one)			
[process or produ		n addresses, as a single emiss hich produces one or more a n point (stack or vent).			
[X	process or produ		n addresses, as a single emiss s which has at least one defin itive emissions.			
[-		n addresses, as a single emiss s which produce fugitive emi	•		
2.	Regulated or Unre	egulated Emissions Unit	(Check one)			
[X	The emissions uemissions unit.	unit addressed in this Em	issions Unit Information Sec	tion is a regulated		
[[] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.					
3.	3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):					
	NGS – Bed Ash S	Surge Hopper Bin Vents.	•	·		
4.	Emissions Unit Id	dentification Number:		No ID		
	ID: 053			[] ID Unknown		
5.	Emissions Unit	6. Initial Startup	7. Emissions Unit Major	8. Acid Rain Unit?		
	Status Code:	Date:	Group SIC Code:	[]		
	Α		49	•		
9.	Emissions Unit C	Comment: (Limit to 500 C	Characters)			
		7 -	d ash surge hoppers, with each			
	servicing a CFB l	poiler. Therefore, this en	nissions unit includes two en	nission points.		

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Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method): Each bed ash surge hopper is equipped with a baghouse dust collector for control of particular matter. Each dust collector vents to it's own stack.						
·						

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

Emissions Unit Details

1.	Package Unit:		
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating:	MW	
3.	Incinerator Information: Not applicable		
	Dwell Temperature:		°F
	Dwell Time:		seconds
	Incinerator Afterburner Temperature:		°F_

Emissions	Unit Information	Section	15	of	16

B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate:		mmBtu/hr
2.	Maximum Incineration Rate:	lb/hr	tons/day
3.	Maximum Process or Through	put Rate:	
4.	Maximum Production Rate:		
5.	Requested Maximum Operatin	g Schedule:	
		24 hours/day	7 days/week
		52 weeks/year	8,760 hours/year
6.	Operating Capacity/Schedule C The actual bed ash throughput operating parameters rather tha	rates are a function of the fu	nel ash content and other

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Emissions Unit Information Section	15	of	16	
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C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject.	
Applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference.	

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	C 4546 A4	****	~~~~		U A	

D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

	lentification of Point on Plo low Diagram? EU053	ot Plan or	2. Emission Po	int Type Code:		
1	100 characters per point): 4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:					
ı	D Numbers or Descriptions wo (2) bed ash surge hopp					
5. D	ischarge Type Code:	6. Stack Heig 95 (approx		7. Exit Diameter:	feet	
	Exit Temperature: 50 (approx) °F	9. Actual Vol Rate: NA	umetric Flow acfm	10. Water Vapor:	%	
11. Maximum Dry Standard Flow Rate: dscfm 12. Nonstack Emission Point Height: feet						
13. E	Emission Point UTM Coord	linates:				
Z	Zone: 17 E	ast (km): 446.7	00 Nort	h (km): 3,365.100		
14. E	Emission Point Comment (I	imit to 200 char	racters):			

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E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Ra	ite: Segment1	of1	
Segment Description (Prod Bed ash surge hopper bins			racters):
			•
2. Source Classification Cod	la (SCC):	3. SCC Units	
30501222	ie (SCC):	5. SCC Units	Tons handled
4. Maximum Hourly Rate:	5. Maximum A	Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum %	% Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit	to 200 characters)	:	
Segment Description and Ra	ate: Segment	of	
1. Segment Description (Pro	cess/Fuel Type)	(limit to 500 ch	aracters):
2. Source Classification Cod	le (SCC):	3. SCC Unit	s:
4. Maximum Hourly Rate:	5. Maximum A	Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum 9	% Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit	to 200 characters):	

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CHURCHICA	OHILL A			10	~1	10

F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
			·
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		,	

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Pollutant Detail Information Page	of	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:
3. Potential Emissions: lb/hour	4. Synthetically tons/year Limited? []
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3	totons/year
6. Emission Factor: Reference:	7. Emissions Method Code:
8. Calculation of Emissions (limit to 600 character)	cters):
9. Pollutant Potential/Fugitive Emissions Com	ment (limit to 200 characters):
Allowable Emissions Allowable Emissions	
Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
5. Method of Compliance (limit to 60 characte	lb/hour tons/year
6. Allowable Emissions Comment (Desc. of O	perating Method) (limit to 200 characters):

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impositing chiramor mation occurred to the to	Emissions	Unit Information Section	15	of	16
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H. VISIBLE EMISSIONS INFORMATION (Only Regulated Emissions Units Subject to a VE Limitation)

<u>Vi</u>	sible Emissions Limitation: Visible Emissi	ons Limitation1 of1
1.	Visible Emissions Subtype: VE05	Basis for Allowable Opacity: [X] Rule [] Other
3.	1 1 2	acceptional Conditions: % ed: min/hour
4.	compliance with the visible emissions limit conducted once every five years.	
5.	Visible Emissions Comment (limit to 200 c along with compliance determination require PSD-FL-265A.	·
<u>C</u>		NITOR INFORMATION Subject to Continuous Monitoring) Monitor of
1.	Parameter Code:	2. Pollutant(s):
3.	CMS Requirement:	[] Rule [] Other
4.	Monitor Information:	
	Manufacturer: Model Number:	Serial Number:
5.	Model Number:	Serial Number: 6. Performance Specification Test Date:

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Emissions	Unit	Information	Section	15	of	16

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

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

DEP Form No. 62-210.900(1) - Form

	Emissions	Unit Information Section	15	of	16
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Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
15. Acid Rain Part 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:
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
[] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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 (All Emissions Units)

Emissions Unit Description and Status

1.	. 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).				
[X	X] 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.				
2.	Regulated or Unregulated Emi	ssions Unit?	(Check one)		
[X	[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.				
3.	3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): NGS – Limestone Feed System Vent Filter Exhaust				
4.		Number:	[X	[] No ID	
	ID: 054		[] ID Unknown	
5.	Emissions Unit Status Code: A 6. Initial S Date:	tartup	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit?	
9.	2. Emissions Unit Comment: (Limit to 500 Characters) The emissions unit consists of a vent filter on the limestone feed system prior to injection of limestone into the CFBs. There are three limestone feed system vent filter exhausts associated with each CFB. Therefore, this emissions unit consists of six emission points.				

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Emissions Unit Control Equipment

1.	Control Equipment/Method Description (Limit to 200 characters per device or method): Particulate matter emissions from each of six limestone feed system vents are controlled with a fabric filter with each fabric filter venting to it's own stack.	
2.	Control Device or Method Code(s): 018	

Emissions Unit Details

1.	Package Unit:		
	Manufacturer:	Model Number:	
2.	Generator Nameplate Rating:	MW	
3.	Incinerator Information: Not applicable		
	Dwell Temperature:		°F
	Dwell Time:		seconds
	Incinerator Afterburner Temperature:		°F

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Emissions Unit Information Section 16	OI	10	
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B. EMISSIONS UNIT CAPACITY INFORMATION (Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1.	Maximum Heat Input Rate:		mmBtu/hr
2.	Maximum Incineration Rate:	lb/hr	tons/day
3.	Maximum Process or Through	put Rate: See note below	
4.	Maximum Production Rate:		
5.	Requested Maximum Operation	ng Schedule:	
		24 hours/day	7 days/week
		52 weeks/year	8,760 hours/year
6.	Operating Capacity/Schedule rates will be a function of CFE	•	•

Emissions	Unit	Information	Section	16	of	16
	O 111 t			10	V.	10

C. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

List of Applicable Regulations

Emissions unit applicable regulations hereby incorporates by reference the Title V core list of applicable regulations that all Title V sources are presumptively subject.	
Applicable regulations specified in construction permit PSD-FL-265 are hereby incorporated by reference.	
·	

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Emissions	Unit I	nformation	Section	16	of	16

D. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

Identification of Point on Plo Flow Diagram? EU054	ot Plan or 2. Emission Point Type Code: 3				
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): There are six emission points associated with this emissions unit. The emission points are located amongst the CFB system equipment and a Method 9 will likely not be possible.					
4. ID Numbers or Descriptions					
5. Discharge Type Code: NA	6. Stack Heig NA	ht: feet	7. Exit Diameter: NA feet		
8. Exit Temperature: 77°F (approx)	9. Actual Vol Rate: NA	umetric Flow acfm	10. Water Vapor: %		
11. Maximum Dry Standard Flo	ow Rate: dscfm	12. Nonstack E	mission Point Height: feet		
13. Emission Point UTM Coord	linates:				
Zone: E	ast (km):	Nor	th (km):		
14. Emission Point Comment (l	limit to 200 char	racters):			
,					

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Emissions	Unit Information	Section	16	of	16
THIS STORY	Omit impormation	Section	T O	V.	10

E. SEGMENT (PROCESS/FUEL) INFORMATION (All Emissions Units)

Segment Description and Ra	ite. Segment_1	011	
Segment Description (Proc Limestone feed system ver	** , ,	limit to 500 cha	aracters):
2. Source Classification Cod	le (SCC):	3. SCC Units	:
30501099			Tons handled
4. Maximum Hourly Rate:	5. Maximum A	nnual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum %	6 Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit	to 200 characters		•
Segment Description and Ra	ate: Segment	of	
1. Segment Description (Pro	cess/Fuel Type)	(limit to 500 cl	naracters):
2. Source Classification Cod	le (SCC):	3. SCC Unit	ts:
	1		
4. Maximum Hourly Rate:	5. Maximum A	Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum 9	∕₀ Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit	to 200 characters):	,

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Emissions	Unit	Information	Section	16	of	16	

F. EMISSIONS UNIT POLLUTANTS (All Emissions Units)

1. Pollutant Emitted	Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
		_	
			-
_			
_			-
			-
		-	

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Emissions Unit Information Section	ı16 (of16	
Pollutant Detail Information Page	of		_

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units -

Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:				
3. Potential Emissions:		4. Synthetically			
lb/hour	tons/year	Limited? []			
5. Range of Estimated Fugitive Emissions:					
	to to	ons/year			
6. Emission Factor:		7. Emissions			
Reference:		Method Code:			
8. Calculation of Emissions (limit to 600 ch	aracters):				
8. Calculation of Emissions (mint to 600 cm	aracters).				
9. Pollutant Potential/Fugitive Emissions Co	omment (limit to 200 chara	cters):			
5. Tonatant Totolilar agitive Emissions of	minosit (mint to 200 onata	0.015).			
Allowable Emissions Allowable Emissions	of				
1. Basis for Allowable Emissions Code:	2. Future Effective D	Date of Allowable			
	Emissions:				
3. Requested Allowable Emissions and Uni	ts: 4. Equivalent Allowa	able Emissions:			
	lb/hour	tons/year			
5. Method of Compliance (limit to 60 chara	cters):				
6. Allowable Emissions Comment (Desc. o	f Operating Method) (limit	to 200 characters):			
·					

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

<u>Vi</u>	sible Emissions Limitation: Visible Emissi	ons Limitation l of	l
2.	Visible Emissions Subtype: VE05	2. Basis for Allowable Opac	ty:] Other
3.	Requested Allowable Opacity: Normal Conditions: 5 % Ex Maximum Period of Excess Opacity Allower	sceptional Conditions: ed:	% min/hour
4.	Method of Compliance: Due to the fact that CFB equipment and obtaining a clear sight JEA requests that specific VE testing not be	line with the sky for a backgrou e required for this emissions uni	nd is unlikely, t.
5.	Visible Emissions Comment (limit to 200 c be assigned to this emissions unit. The emis affected facility in 40 CFR 60.670.		
<u>C</u>	I. CONTINUOUS MC (Only Regulated Emissions Units ontinuous Monitoring System: Continuous	-	toring)
1.	Parameter Code:	2. Pollutant(s):	
3.	CMS Requirement:	[] Rule [] (Other
4.	Monitor Information: Manufacturer: Model Number:	Serial Number:	
5.	Installation Date:	6. Performance Specificatio	n Test Date:
7.		1	

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J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements

1.	Process Flow Diagram
	[X] Attached, Document ID: Attachment C [] Not Applicable [] Waiver Requested
2	Fuel Analysis or Specification
۷.	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
	[] Marver requested
3.	Detailed Description of Control Equipment
	[X] Attached, Document ID:Attachment N [] Not Applicable [] Waiver Requested
4.	Description of Stack Sampling Facilities
7.	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
	[]
5.	Compliance Test Report
	[X] Attached, Document ID:Attachment P
	[] Previously submitted, Date:
	[] Not Applicable
6.	Procedures for Startup and Shutdown
"	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
7.	Operation and Maintenance Plan
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
8.	Supplemental Information for Construction Permit Application
	[] Attached, Document ID: [X] Not Applicable
	Other Information Decimal by Dule on Chatrate
9.	Other Information Required by Rule or Statute
	[] Attached, Document ID: [X] Not Applicable
10	. Supplemental Requirements Comment:

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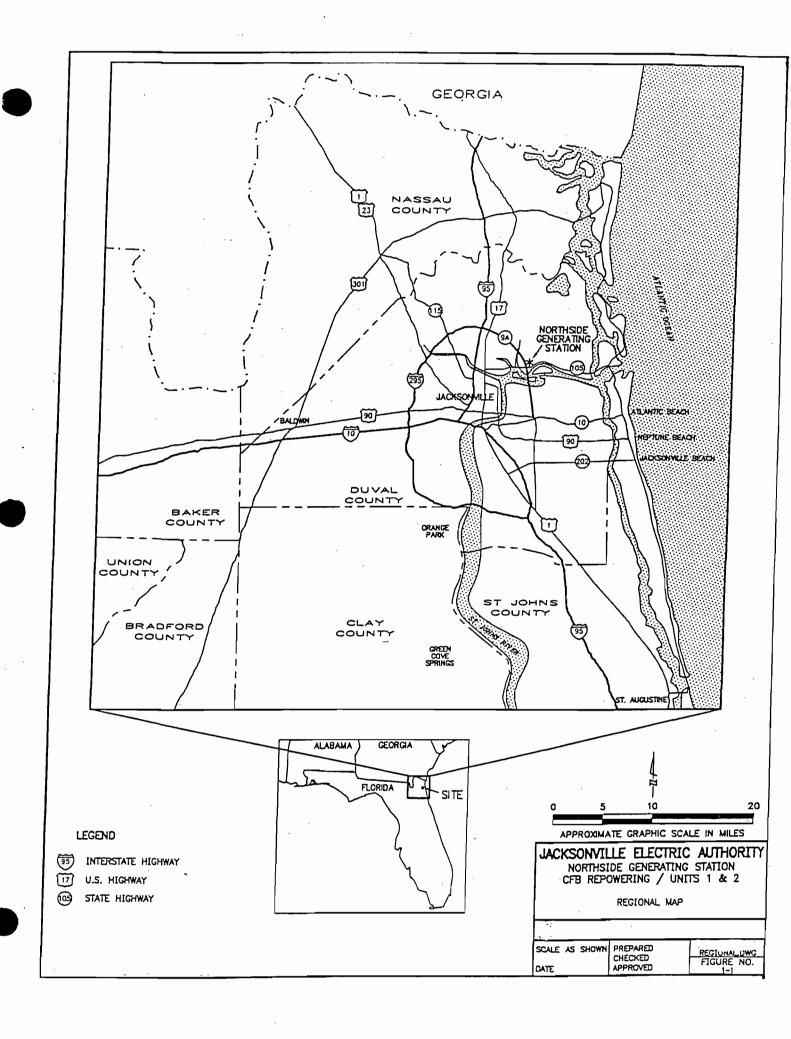
Additional Supplemental Requirements for Title V Air Operation Permit Applications

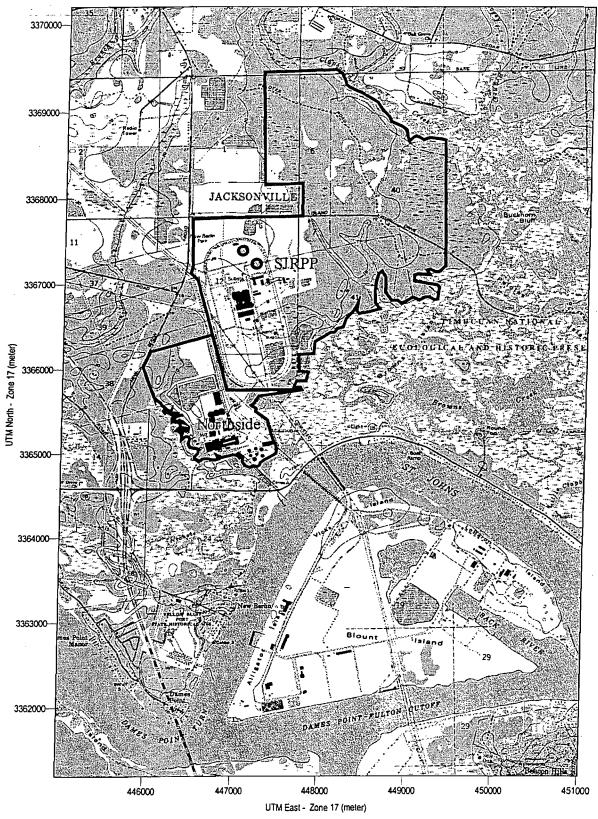
11. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
12. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
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15. Acid Rain Part 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:
[] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID:
[X] Not Applicable

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Attachment A

Area Map Showing Facility Location



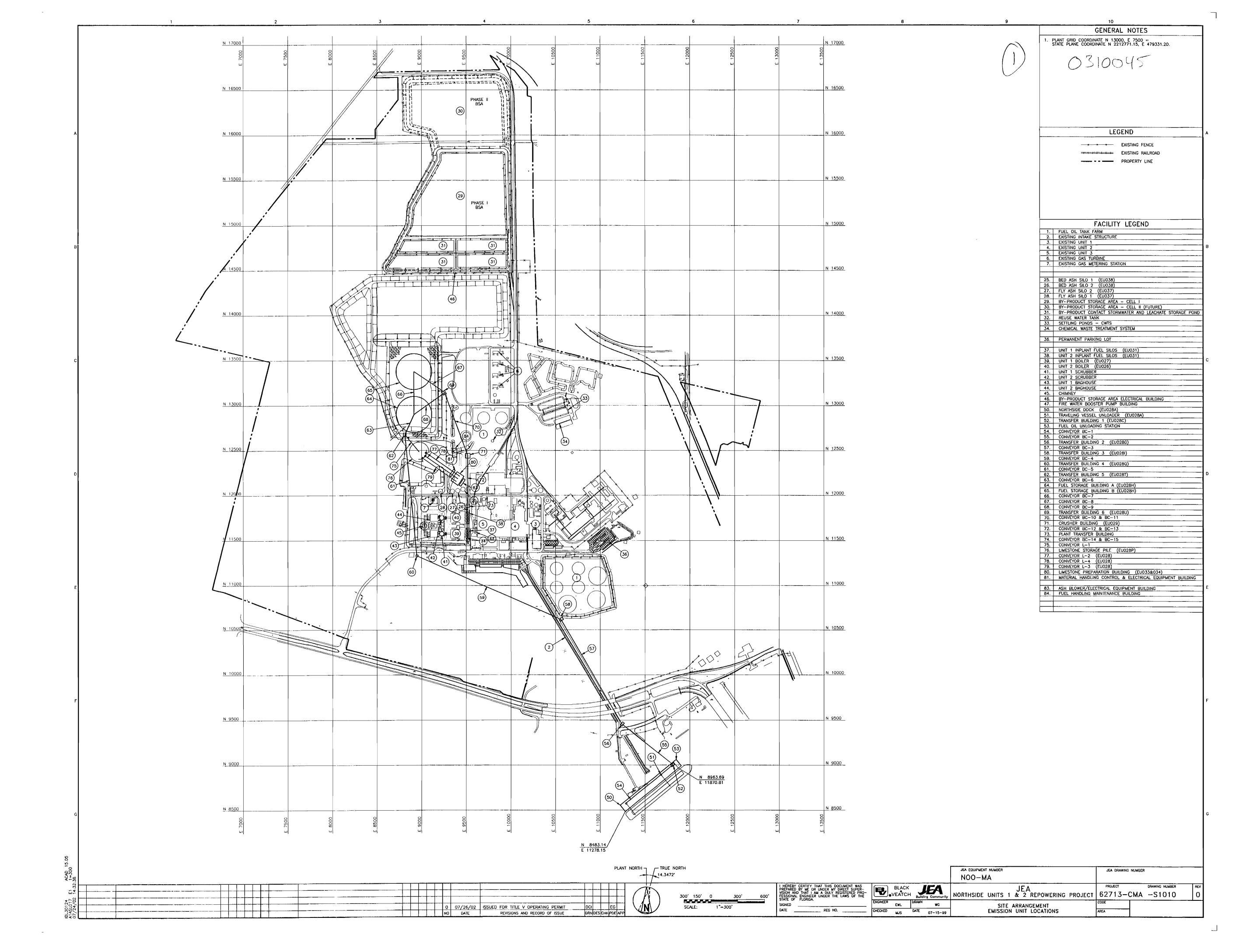




Northside - Units 1 & 2 Repowering Project Site Location Map

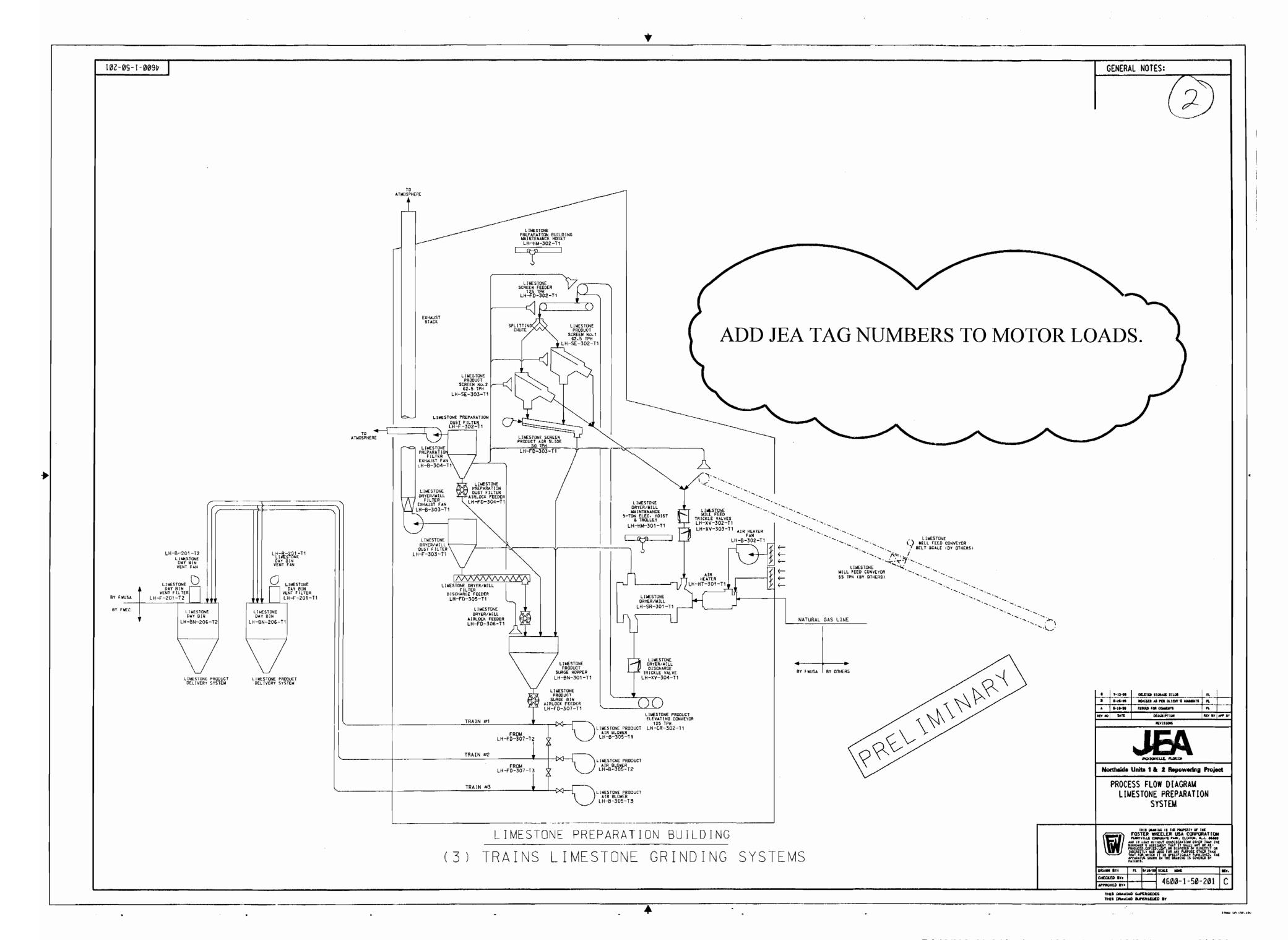
Attachment B

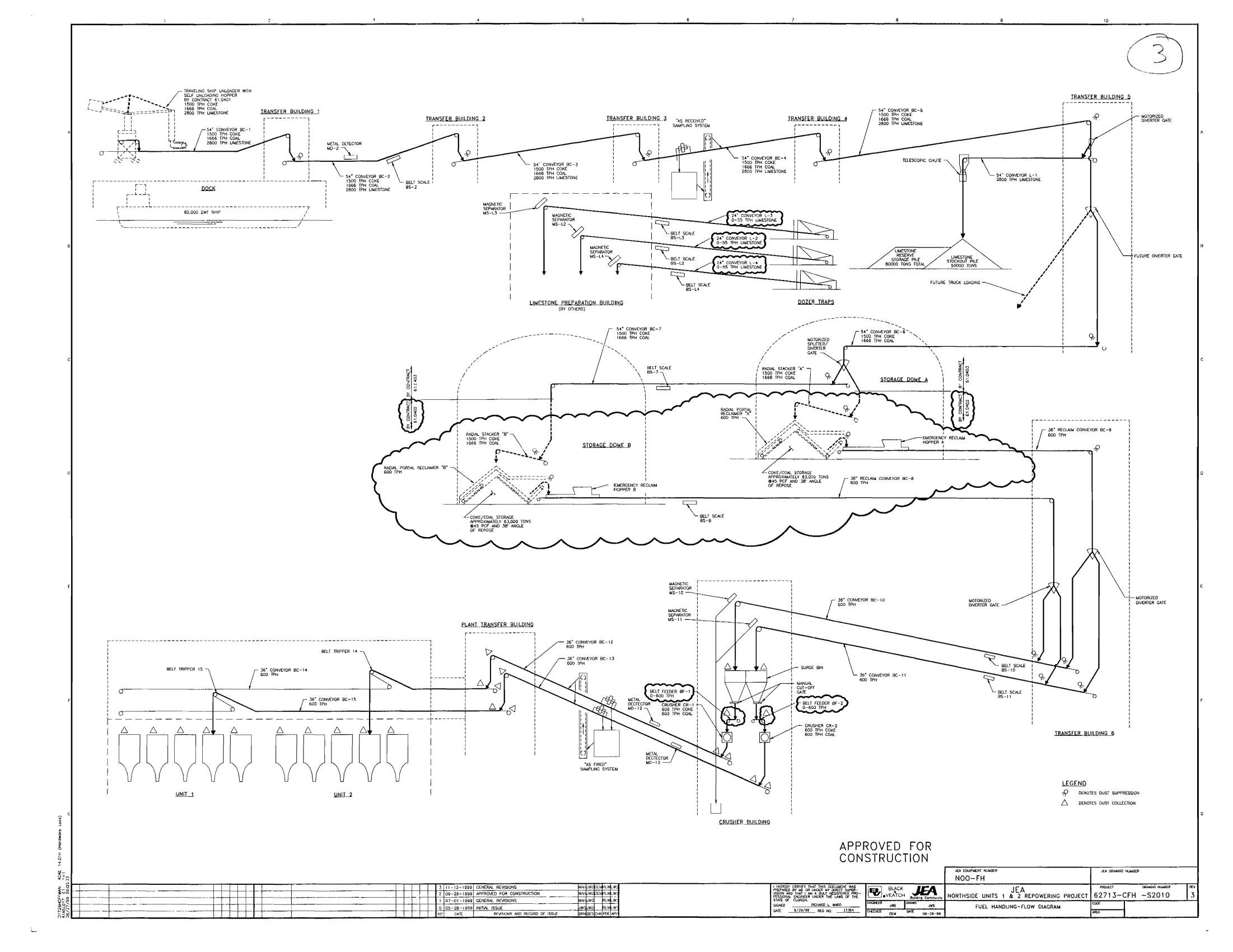
Facility Plot Plan

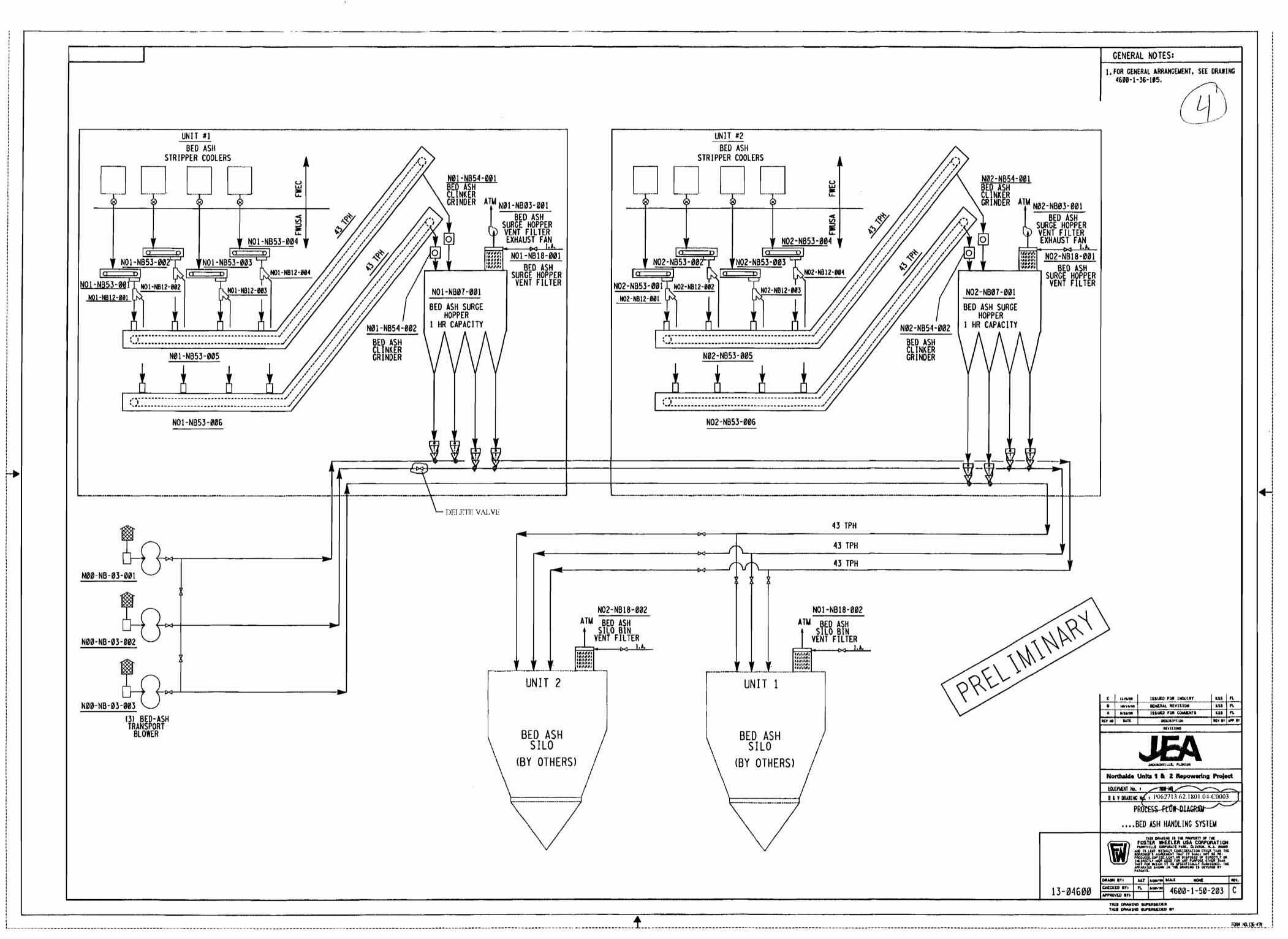


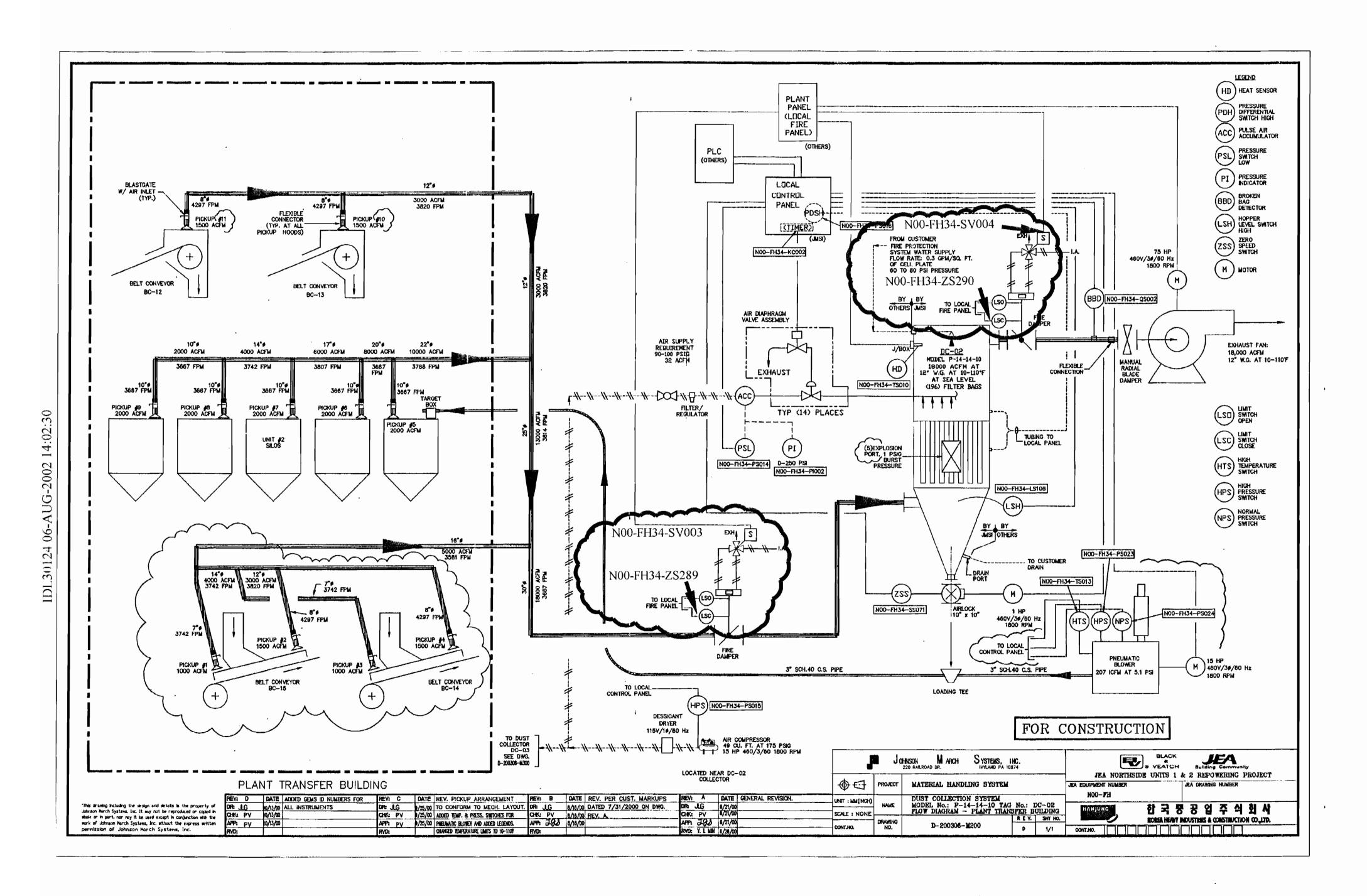
Attachment C

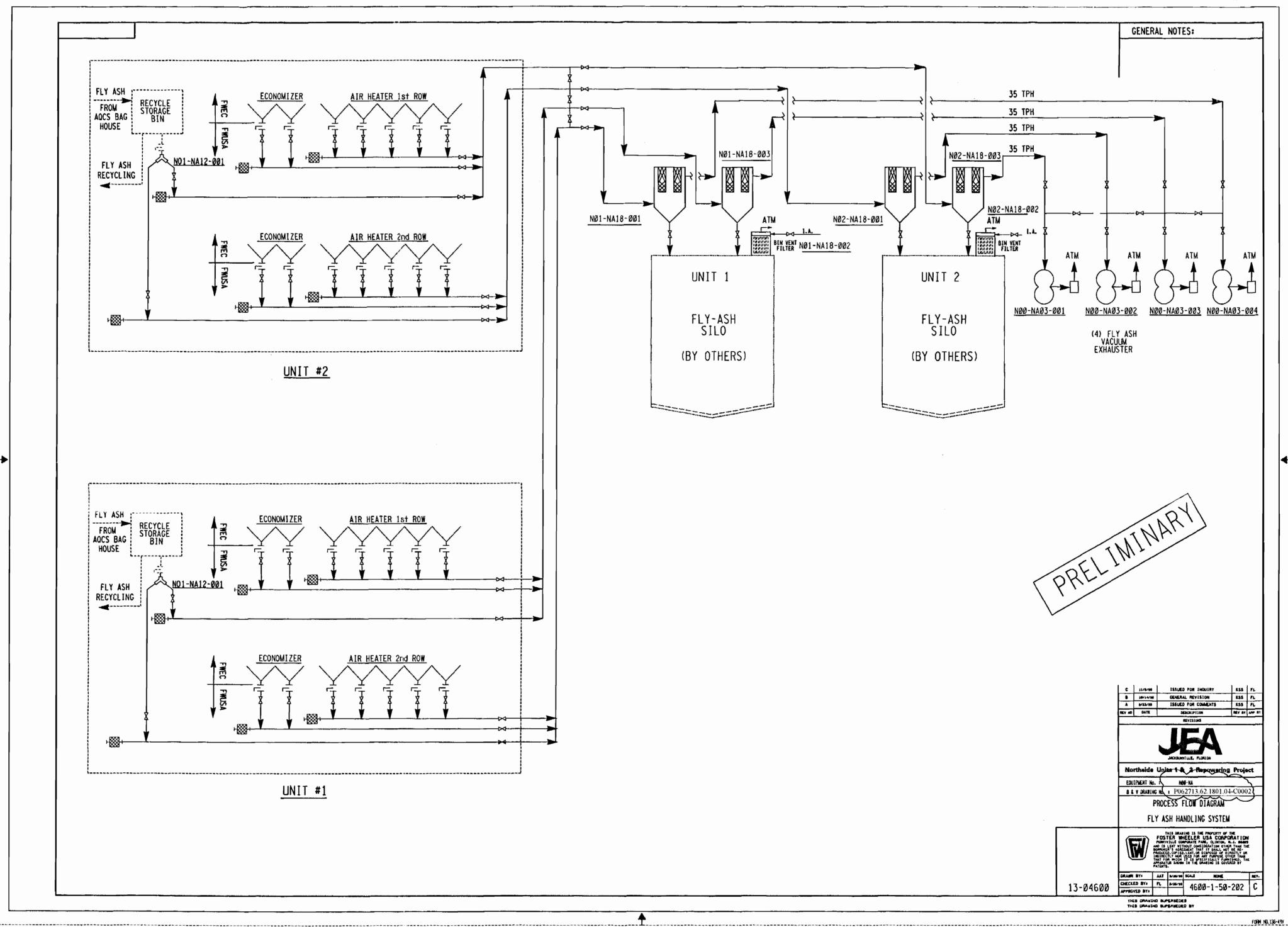
Process Flow Diagrams











IDL30124 06-AUG-2002 14:19:05

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Attachment D	
Attachment D	
Duscoutions to Dusyant Emissions of Unconfined Doutioulate Matter	
Precautions to Prevent Emissions of Unconfined Particulate Matter	
Precautions to Prevent Emissions of Unconfined Particulate Matter	
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Precautions to Prevent Emissions of Unconfined Particulate Matter

The facility has negligible amounts of unconfined particulate matter as a result of the operation of the facility. Potential examples of particulate matter include:

- Fugitive dust from paved and unpaved roads;
- Sandblasting abrasive material from facility maintenance activities.

Several precautions were taken to prevent emissions of particulate matter in the original design of the facility. These include:

- · Paving of roads, parking areas and equipment yards;
- Landscaping and planting of vegetation.

Operational measures are undertaken at the facility which also minimize particulate emissions, in accordance with Rule 62-296.320(4)(c) F.A.C.:

- Maintenance of paved areas as needed;
- Regular mowing of grass and care of vegetation;
- Limiting access to plant property for unnecessary vehicles.

Attachment E

Fugitive Emissions Identification

Fugitive Emissions Identification

Other than emissions of unconfined particulate matter addressed in the earlier section, the only other known source of fugitive emissions are VOC emissions from miscellaneous painting activities and other maintenance activities and from fuel oil storage.

Attachment F

List of Insignificant Activities

List of Exempt and Insignificant Activities

- Indoor sand blasting and abrasive grit blasting where temporary enclosures are used to contain particulates.
- Plant grounds maintenance.
- Routine maintenance/repair activities such as cleaning, welding, non-asbestos insulation removal, hand held tools/equip., meter repair/maintenance, on-line/off-line cleaning of equipment.
- Main steam pressure/relief valves; steam from boiler operations.
- Non-halogenated solvent cleaning operations.
- Indoor fugitives such as vacuum cleaning, solvent storage, office supplies/equipments.
- Testing equipment such as cems, stsck sampling calibration gases, oxygen detectors.
- Internal combustion engines which drive compressors, generators, water pumps, or other auxiliary equipment.
- HVAC (heating, ventilation, and air conditioning systems)
- Vent/exhaust systems for:
 - Print room storage cabinets
 - Transformer vaults/bldg.
 - Maint/welding bldgs.
 - Operating equipment vents
 - Air blowers/evacuators/air locks
 - Feedwater heater vents
- Transformers, switches, and switchgear processing (including cleaning and changing) and venting.
- Vent/exhaust from kitchens and break rooms.
- Vents/stacks for sewer lines or enclosed areas required. For safety or by code
- Electrically heated equipment used for heat treating, tracing, drying, soaking, case hardening or surface conditioning
- Sewage treatment facilities/equipment ranging in size from porta-john to sewage treatment plants
- Steam releases.
- Storage and use of chemicals solely for water/waste water treatment.
- Firefighting training facilities.
- Lawn maintenance equipment activities.
- Application of fungicide, herbicide, pesticide.
- Air compressors and centrifuges used for compressing air.
- Recovered materials recycling systems including: bulb crushers, aerosol can puncturing.

- Waste accumulation/consolidation.
- Compressed air system.
- Storage tanks less than 550 gallons.
- Storage of products in sealed containers.
- Nuclear gauges used for the purpose of process monitoring.
- Insulating activities.
- Asphalt or concrete sealing.
- High pressure water blasting.
- Excavations for construction activities.
- Chemical cleaning
 - Boiler
 - Turbine
 - Heat exchanger
 - Misc. Plant machinery
 - Solvent cleaning (parts & circuit boards)
- Cleaning furnace bottoms or slag removal
- Welding all types
- Cutting all types
 - Milling & machining
- Sanding or grinding all types
- Emission from portable equipment
 - Welding machines (diesel or gas)
 - Pumps (diesel or gas)
- Pipe line repairs
 - Fly ash
 - Bottom ash
 - Slurry or sludge transfer
 - Fuel line
 - Process water (cooling water, ash water or condensate)
 - Refuse transport line
 - Miscellaneous other process lines
- Bag house repairs
- Filter change out (oil & air)
- Air conditioner repairs
- Battery maintenance
- Coal feeder maintenance

- Refuse feeder maintenance
- Other miscellaneous maintenance
- Fuel oil storage tank cleaning
- Small parts washing using parts washer
- Stack washing (water, soot)
- Cleaning and dewatering of ash basins (heavy equipment/pumps)
- Engine rebuilding
- Lube oil changes
- Receiving fuel oil (truck & pipeline)
- Aerosol can use (cleaners, etc.)
- Boiler chemical cleaning (cirtosolv & ammonia)
- Boiler gun cleaning (guns dipped into vats of solvent)
- Soldering of electrical components (silver, tine solder)
- Portable equipment and tools, including electric and gasoline powered
- Welding, grinding and cutting activities (metal fumes)
- Machining metal parts (cutting oil, metal fumes)
- Cleaning condensers (water vapor, 'snoop")
- Oil-filled electrical equipment vents
- Storage and use of boiler chemicals (phosphates, ammonia, hydrazine, magnesium oxide, sodium tripolyphosphate, soda ash, di- and tri-sodium phosphate)
- Fume hood in laboratory
- Laboratory equipment
- Space heaters
- Fire and safety equipment
- Emergency generators
- Mercury containing equipment such as manometers
- Non-chlorinated solvent degreasing equipment
- Vacuum pumps in laboratory operations
- Equipment use for steam cleaning

Attachment G List of Equipment/Activities Regulated Under Title VI

Attachment G - List of Equipment/Activities Regulated Under Title VI

List of Equipment/Activities Regulated Under Title VI

Numerous units at the facility site contain at least 50 lbs of a listed refrigerant (R-22):

Below is a list of the equipment known to be on site which contain a listed refrigerant (R 22) in quantities substantially less than 50 lbs each. The numbers are approximate as the exact numbers are subject to change based on units being replaced, retired, or added:

20 central A/C units using (2 containing R-12)

5 window units

15 refrigerators

5 ice machines

10 water coolers

1 sample cooler

In addition, there is one recycling machine (previously registered with the EPA in accordance with Title VI requirements, and applicable rules and regulations) for capturing refrigerant when any work is performed by on-site licensed personnel, although the majority of refrigerant work is currently performed by licensed contractors. This is subject to change in the future.

Attachment H

Alternative Methods of Operation

Alternative Methods of Operation

Emission Units 026 and 027 (CFB Units 1 and 2) can operate on coal or petcoke or a blend of both. In addition, these units use natural gas (including landfill gas) and distillate fuel oil for start up.

Emission Unit 033 (Limestone Dryer/Mills) can operate both on natural gas and fuel oil.

Attachment I

Identification of Additional Applicable Requirements

List of Additional Applicable Requirements

Currently, JEA has identified and addressed all applicable regulatory requirements. If new regulatory requirements become applicable in the future, or if any non-compliance items are discovered after submittal of this application, the necessary steps will be taken to ensure compliance in a timely manner. This is in accordance with company policy of maintaining continuous compliance with all applicable rules and regulations.

Attachment J

Verification of Risk Management Plan Submittal

4377 Heckscher Drive

Jacksonville, Florida 32226-3099

May 15, 2002



Ms. Vicki Sharpe, Planning Manager Bureau of Compliance Planning and Support Department of Community Affairs Division of Emergency Management 2555 Shumard Oak Boulevard Tallahassee, Florida 32399-2100

ELECTRIC

Re:

Response to Risk Management Program Audit

Preliminary Determination Report

Northside Generating Station

EPA Facility Identifier: 1000 0013 3839

SEWER

WATER

Dear Ms. Sharpe:

Enclosed is a revised Risk Management Plan (RMP) for the aqueous ammonia tank systems at JEA's Northside Generating Station. The plan was revised in response to a February 15, 2002 Preliminary Determination Report (PDR) from the Department of Community Affairs (DCA) that summarizes observations, findings and conclusions from an on-site audit performed by you and Mr. William Milazzo on January 17, 2002.

Responses to specific findings contained in the PDR also are enclosed. For clarification, the new 40,000-gallon aqueous ammonia tank system is referred to as the "west tank" and the older 6,000-gallon aqueous ammonia tank system is referred to as the "east tank".

We appreciate the useful input and guidance provided by your audit and look forward to the Final Determination Report from your office. Please feel free to contact me at (904) 665-6722 or Scott Turner at (904) 665-4337 if you have any questions or require additional information.

Sincerely

Robert Lucás

Manager, Process Chemistry

C:

Scott Turner Ken Davis Jim Memory Bert Gianazza

Warren Snyder - ERM

Attachment K

Compliance Report and Plan

Compliance Report and Plan

At the time of the filing of this application, all units are in compliance with applicable rules and regulations except as noted below.

- None of the required stack testing was performed for Unit 1 (EU027) since the unit did not begin initial operation until May, 2002 and therefore, tests will need to be performed within 180 days of initial operation.
- The Acid Rain Renewal Permit application is being submitted under separate cover.
- Stack test reports for Unit 2 (EU026) and all other required emission testing (other than those noted below) have been completed and final reports are being prepared for submission to the FDEP.

The following tests have not yet been performed as of date:

- Transfer Building # 5 EPA Method 9 3-hour test with Coal.
- Transfer Building # 6 EPA Method 9 3-hour test with Coal.
- Transfer Building #3 EPA Method 9 3-hour test with Limestone.
- Transfer Building # 4 EPA Method 9 3-hour test with Limestone.
- Transfer Building # 5 EPA Method 9 3-hour test with Limestone.

If new regulatory requirements become applicable in the future, or if any non-compliance items are discovered after submittal of this application, the necessary steps will be taken to ensure compliance in a timely manner. This is in accordance with company policy of maintaining continuous compliance with all applicable rules and regulations.

Attachment L

Compliance Certification

Compliance Certification

I, the undersigned, am the responsible official as defined in Chapter 62-210.200, F.A.C., of the Title V source for which the compliance report in Attachment K is being submitted. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made and data contained in this report are true, accurate, and complete.

Signature Chamber My

Date

8.502

Attachment M

Fuel Analysis or Specification



INCOLAB SERVICES VENEZUELA C.A.

COMMODITY SAMPLERS AND ANALYTICAL CHEMISTS

Oficina v Laboratorio:

Avenida Principal de San Francisco Sector El Bajo Maracaibo Edo. Źulia

Deléfono (0261), 7619521 ax (0861) 7612787 P:0/ Box 390 4001-A - Maracaibo Email: \isyca@cantv.net

TCP Petcoke Corporation 1114 Avenue of The Americas - 45th floor New York, NW 10036

CERTIFICATE OF ANAL

Date

: 22-Jun-02 : 020626-V

Our ref. Material

: Petroleum Coke

Vessel

: M/V Jadran, B/L 20-Jun-02

Lot No.

: Average

Port

: Amuay Bay, Venezuela.

Weight

: 51,528.263 mt.

Sampling date

: 12-June-02 - 20-June-02

Moisture, as received

5.61 %

Ash, as received

0.67 %

Ash, dry

0.71 %

Volatile Matter, as received

11.08 %

Volatile Matter, dry

11.74 %

Gross Calorific Value, as received

Gross Calorific Value, dry

14501 Btu/lb 15363 Btu/lb

Sulphur, as received

4.23 %

Sulphur, dry

4.48 %

Hardgrove Index

63

Analysis performed in accordance with ASTM standards.

For and on behalf of, INCOLAB SERVICES VENE



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Commercial Testing	& Engineering Co.	RECD JUL 16 2002
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1501-A E. Patapsco Avenue Baltimore, MD 21226 Tel: (410) 355-1958 Fax: (410) 355-1965	July 15, 2002	REC'D JUL 16 2002 AMERICA evard MD 21090 Be above shipment in less during loading of July 13, 2002. The DRY BASIS XXXXX DRY BASIS XXXXX OF THE REC'D JUL 16 2002
www.comteco.com CERTIFICATE OF: ANALYSIS	RAG COAL SALES OF A 999 Corporate Bould Linthicum Heights,	evard
RE: Barge "SOMERSET" at Chesapeake	Bay Piers,	\$• \$0 \$0
Baltimore, MD, USA Representing 14,868.047 Short OUR FILE NO.: 8610443	Tons of Coal	s•sGs•sG
Commercial Testing & Engineering C accordance with ASTM Standards.	ompany analyzed th	e above shipment in on
C. T. & E. Co., per your instruction the barge at The Chesapeake Bay Pier samples reported were collected by M	s, Baltimore, MD or	es during loading of some substitution of substi
Our Laboratory reports the following	composite results:	3S•SG
PROXIMATE ANALYSIS TOTAL MOISTURE	AS RECEIVED	DRY BASIS
ASH	8.16 %	8.57 % ~
VOLATILE MATTER	36.96 %	38.79 %
FIXED CARBON	50.15 %	52.64 % S
SULFUR	2.64 %	2.77 %
GROSS CALORIFIC VALUE (Btu/1b.)	13268	13927
MAF (Btu/lb.)	1523.	2
Li	COMMERCIAL TESTING OF THE P. McDonough Manager, Baltimore (
		S•SGS•SGS•
	S Group (Société Génerale de Surveillanc	e) SGS
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Best Available Copy



A.J. EDMOND COMPANY

An ISO 9002 Certified Company CHEMISTS / ENGINEERS 1530 Texas Avenue Texas City, Texas 77590 (409) 948-4504 Fax: (409) 948-4046 Analytical Laborate Cargo Surveys Barge Surveys Commodity Survey Inspectors Consultants Manufacturing Sampling Systems

July 17, 2002

Applied Industrial Materials Corp. 100 First Stamford Pl. Stamford, CT 06904 Project Number: 300182 Issued at loading Port: Premcor Refinery Dock Port Arthur, Texas

Certificate Of Analysis

Report: O/B Marie Flood

1.0 Commodity:

Green Delayed Petroleum Coke

2.0 Loading:

The coke was loaded into the vessel at the bulk

loading facilities at Premcor Refinery Dock, Port Athur, TX

Hold(s):1, 2, 3, 4, 5

Date(s): July 12, 13, 2002

Weather: Rain

3.0 Sampling:

The coke was sampled during the loading process by the Methods of the American Society for Testing and Materials.

4.0 Analyses:

On a composite of the samples taken, the following determinations were made using the Methods of the American Society for Testing and Materials.

4.1 Samples As Marked:

Marked:	Test Description	As Received Composite	Dry Composite
	Size:	Run of Coker	,
	Moisture, %	6.90	
	Volatile Matter, %	9.65	10.37
	Ash, %	0.35	0.38
	Fixed Carbon, %	83.09	89.25
	Sulfur, %	6.14	6.59
	Hardgrove Grindability, Index		37
	Calorific Value, BTU/lb	14103	15148
	0 x 75mm		0.0
	0 x 6 mm		45.2
	Pan		54.8

KJK/100

Respectfully Submitted

A. J. EDMOND COMPANY

Form 2.10f1

K! J. Kumke

[~]28-S9S•S9S•S9S•S9S•SnS•sns•cns

Commercial Testing & Engineering Co.

1501-A E. Patapsco Avenue Baltimore, MD 21226 Tel: (410) 355-1958 Fax: (410) 355-1965 www.comteco.com

July 12, 2002

RAG COAL SALES OF AMERICA 999 Corporate Boulevard Linthicum Heights, MD 21090

CERTIFICATE OF: **ANALYSIS**

Baltimore, MD, USA	R" at Chesapeake Bay Piers, 1.280 Short Tons of Coal 136			
Commercial Testing & Engacordance with ASTM Stan	gineering Company analyzed dards.	the above shipment in		
commercial Testing & Engineering Company analyzed the above shipment in accordance with ASTM Standards. T. & E. Co., per your instructions, collected samples during loading of the barge at The Chesapeake Bay Piers, Baltimore, MD on July 9, 2002. The amples reported were collected by MECHANICAL sampling. Tr. Laboratory reports the following composite results: PROXIMATE ANALYSIS TOTAL MOISTURE AS RECEIVED 4.20 % VOLATILE MATTER 36.89 % 38.51 % FIXED CARBON 50.52 % 52.73 % SULFUR 2.57 % 2.68 % GROSS CALORIFIC VALUE (Btu/lb.) 13265 13847 MAF (Btu/lb.) COMMERCIAL TESTING & ENGINEERING CO.				
Our Laboratory reports th	e following composite result:	s:		
PROXIMATE ANALYSIS TOTAL MOISTURE	AS RECEIVED 4.20 %	DRY BASIS		
ASH	8.39 %	8.76 %		
VOLATILE MATTER	36.89 %	38.51 %		
FIXED CARBON	50.52 %	52.73 %		
SULFUR	2.57 %	2.68 %		
GROSS CALORIFIC VALUE	•	13847		
MAF (Btu/lb.)	151	.76		
	COMMERCIAL TESTING William P. McDonou Manager, Baltimore	gh		
@ 5G8	Member of the SGS Group (Société Génerale de Surveill	ance)		
		(



Attachment N

Detailed Description of Control Equipment

JIEA NORTHSIDE GENERATING STATION REPOWERING CONTROL EQUIPMENT DESCRIPTION

POLISHING SCRUBBER DESCRIPTION

A polishing scrubber is installed downstream of each of the new CFB boilers to reduce sulfur dioxide and particulate emissions to acceptable levels. The system includes an absorber vessel followed by a fabric filter. Draft for the system, which is approximately 10 iwc, is provided by an induced draft fan located downstream of the polishing scrubber system.

SCRUBBER

The scrubbing process is a semi-dry process using calcium products as the reagent for removing sulfur dioxide from the flue gas. Flue gas entering the scrubber at approximately 280 °F is humidified to within 30 - 42 °F of adiabatic saturation. Sulfur dioxide is absorbed and reacted with the alkaline sorbent to form calcium sulfite and calcium sulfate byproducts. The scrubber system is designed to provide adequate removal efficiency which, in combination with the sulfur dioxide removal efficiency in the CFB boiler, will achieve the allowable sulfur dioxide emission rate.

The source of reagent is a combination of calcium oxide (CaO) in the fly ash from the CFB boiler, recirculated fly ash from the particulate collector and fresh reagent prepared from pebble lime. Fresh reagent is prepared as calcium hydroxide or as a lime slurry. Calcium hydroxide is prepared in a hydrator and is provided with a wet scrubber to reduce particulate emissions. Lime slurry is prepared in a slaker.

FABRIC FILTER

A fabric filter is installed for control of particulate matter. The particulate collector is a pulse jet fabric filter with an expected flow rate of 762,000 ACFM and using high pressure low volume compressed air as the cleaning medium. Flue gas from the polishing scrubber containing calcium sulfite, calcium sulfate, calcium oxide, fuel ash and inert material enter the fabric filter at a temperature of approximately 150 - 155 °F. The fabric filter has eight (8) compartments with a maximum inlet velocity of 1800 fpm. Sufficient cloth area is included to provide a maximum filtration velocity of 3.5 f with one compartment out of service for maintenance. Filter media is a nominal 6" diameter by 18 - 20 ft long bag. A minimum spacing between bags within a compartment is 2 inches. Bag cleaning would be performed on line and would be initiated to limit the pressure drop across the fabric filter to a maximum 6 iwc. The overall particulate removal efficiency would be approximately 99.99%. Particulate matter collected in the hopper is conveyed by a negative pressure pneumatic system to the fly ash silo or recirculated back to the polishing scrubber.

DUST COLLECTION & DUST SUPPRESSION

Dust Collection and Dust Suppression is furnished throughout the system at various transfer points. There is either Dust Collection or Dust Suppression at the points.

DUST COLLECTION

Dust laden air enters the collector via ductwork under suction. The diffuser absorbs the impact of the high velocity dust particles and distributes the flow of the incoming air. The dust laden air travels upward and through the filtration bag. The exterior of the bag filters the air from the particulate.

The collector housing is dust tight and is divided by a cell plate/tubesheet into two plenums. The lower section/dirty air plenum contains the filter bags, discharge hopper, and inlet. The discharge hopper is fitted with an air lock to enable continuous discharge of dust to the conveyed material main stream.

The filter bags fit around and are supported by wire cages. A pulse pipe with multiple orifices is located above each row of filter bags so an orifice is directly above the throat of each venturi in that row.

The upper/clean air plenum houses the blow pipes and supports the air header, solenoid valves, diaphragm valves and provides an exhaust outlet for the filtered air stream to the atmosphere.

The cleaning sequence is as follows:

The cycle timer actuates the normally closed solenoid valve causing it to open. The diaphragm valve opens, as a result of the decrease in pressure from the opening of the solenoid valve. A momentary inrush of high pressure clean and dry compressed air flows from the header to the pulse pipe, down through each venturi, and into each filter bag. Thus all the bags in a single row are cleaned simultaneously. This cleaning process is repeated for each row of bags. The time between pulses and the duration of the pulse is adjustable. A magnehelic gauge shows the pressure drop across the collector and is a good indication of the collector performance. A differential pressure switch will initiate the cleaning sequence based upon the pressure drop of the dust collector.

DUST SUPPRESSION

The chemical/water spray is applied to the conveyed material stream. The conveyed materials are dampened to eliminate dust producing characteristics.

The system shall consist of the following components:

The proportioner mixes the chemical and water in the appropriate ratio.

The spray jet controller governs the flow of mixed solution, supplied by the proportioner, to the spray manifold assemblies.

The spray manifold assemblies, are a series ofjets that actually apply the solution to the conveyed material.

The automatic sequencing control panel to provided adjustment of the spraying sequence.

The proportioner and pumping system automatically mixes the chemical solution and water in a preselected ratio, and supplies the mixture to the spray locations. The system shall include a proportioner, a chemical injection pump, inlet water pressure regulator, solution pump, motor drives, control panel, and other necessary equipment.

The material flow switches will activate only when the presence of material is detected. Thus activating the spray flow controllers. The spray flow controllers will control the flow of spray solution to the spray manifold assemblies at the application points.

The spray manifold assemblies are made up of multiple spray housing and strainer assembly with jet nozzles for location in chutes and loading skirts as design requires. The location is such that the water solution is contained in the chute/loading skirt housing.

APPENDIX BD BEST AVAILABLE CONTROL TECHNOLOGY DETERMINATION (BACT)

rate of 1,500 TPH. Coal and petroleum coke would be reclaimed from within the enclosed storage pile and conveyed to the new Crusher House at a maximum rate of 700 TPH. Within the Crusher House the coal and petroleum coke are crushed and sized at a maximum rate of 1,400 TPH (700 TPH/crusher) and transferred to the boiler feed silos (ten total, five per CFB boiler) by either of two 700 TPH conveyors.

JEA's Alternate 1 involves the construction of additional equipment at SJRCT including a second ship unloader, additional conveyors and transfer points and an enclosed surge pile as well as additional conveyors and transfer points, stackers and reclaimers, and slightly expanding the existing storage pile at SJRPP. From the SJRPP storage pile, coal and petroleum coke would be reclaimed and conveyed to the NGS Crusher House at a maximum rate of 700 TPH. Within the Crusher House the coal and petroleum coke are crushed and sized at a maximum rate of 1,400 TPH (700 TPH/crusher) and transferred to the boiler feed silos (ten total, five per CFB boiler) by either of two 700 TPH conveyors.

The existing SJRPP Rotary Railcar Dumper will support the NGS Repowering Project under both scenarios, increasing the potential throughput of the SJRPP Rotary Railcar Dumper from 5.13 million tons (SJRPP Requirement) to 7.55 million tons per year. Under the Base Case, coal and petroleum coke will be delivered to the enclosed NGS fuel storage pile at a maximum rate of 1.500 TPH on a new conveyor system connecting SJRPP and NGS. Under Alternate 1, coal and petroleum coke will be delivered to the existing SJRPP storage pile at a maximum rate of 4,000 TPH, reclaimed and conveyed to NGS at a maximum rate of 1,500 TPH on a new conveyor system.

Pebble Lime will be delivered to NGS and pneumatically conveyed from the tanker truck into a storage silo at a maximum rate of 20 TPH and 175,200 TPY. The pebble lime is later hydrated and pumped to the add-on AQCS for the CFB boilers to control SO₂ emissions.

Fly ash emitted by the CFB boilers and collected within each particulate matter AQCS will be pneumatically transferred to a corresponding waste bin at an average rate of 27 TPH. From the waste bin, the fly ash is pneumatically conveyed to either of two fly ash silos at a rate of 27 TPH. From the silos, the fly ash can be either hydrated or transferred directly to a tanker truck. Each silo will be equipped with four hydrators capable of processing 25 TPH of fly ash each. From the hydrators, the hydrated fly ash will be loaded directly into dump trucks. Transfer of dry fly ash directly into a tanker truck is accomplished at rates as high as 250 TPH with emissions vented to a fabric filter.

Bed ash discharged from the CFB boilers is transferred to a corresponding bed ash silo at an average rate of 21 TPH. From the silos, the bed ash can be either hydrated or transferred directly to a tanker truck. Each silo will be equipped with two hydrators each capable of processing 59 TPH of fly ash. From the hydrators, the hydrated bed ash can be loaded directly into dump trucks. Transfer of dry bed ash directly into a tanker truck is accomplished at rates as high as 250 TPH with emissions vented to a fabric filter.

CONTROL TECHNOLOGIES:*

PARTICULATE MATTER (PM₁₀/TSP) CONTROL TECHNOLOGIES

Particulate matter emissions will be generated by the CFB Boilers, the limestone dryers/mills, and the materials handling and storage operations. Review of the available control technologies is presented for each emissions unit classification.

CFB Boilers

Particulate matter emissions are generated as a result of inert materials within the fuel, the bed media (fuel, ash, and limestone) and the incomplete combustion of the fuel in the form of unburned carbon. For CFB boilers, the most stringent control technology for particulate matter has been the use of an add-on AQCS to reduce emissions to levels of 0.011 lb/mmBtu (One unit was restricted to 0.01 lb/mmBtu but that limit is less stringent than the 0.011 lb/mmBtu because of rounding (0.01 = 0.014)). The available control options include cyclone separators, wet scrubbers, fabric filters and electrostatic precipitators (ESP). As part of the BACT evaluation the applicant's CFB boiler vendor evaluated three options for controlling particulate matter emissions.

The evaluations were supported by AQCS vendor proposals and guarantees for each at 0.011 lb/mmBtu. These evaluations included the following:

APPENDIX BD BEST AVAILABLE CONTROL TECHNOLOGY DETERMINATION (BACT)

- The use of a fabric filter in conjunction with a spray dryer absorber (SDA) was proposed for the direct control of particulate matter and sulfur dioxide (SO₂) from the CFB boilers. The AQCS's were proposed by Wheelabrator Air Pollution Control (WAPC) Inc. and included a particulate matter (PM₁₀/TSP) guarantee of 0.011 lb/mmBtu. The overall AQCS proposed by WAPC included use of a dry scrubbing system incorporating two (2) spray dryers and a fabric filter for each CFB boiler. Use of a fabric filter on a CFB boiler and use of a fabric filter in combination with a spray dryer is a proven technology and available from other vendors such as ABB Environmental Services.
- The use of the ESP in conjunction with a circulating fluidized bed scrubber was proposed as a second option for the direct control of particulate matter and SO₂ emissions from the CFB boilers. The AQCS was proposed by Environmental Elements Corporation and included a particulate matter (PM₁₀/TSP) guarantee of 0.011 lb/mmBtu. The circulating fluidized bed scrubber is considered a "newer" technology with reportedly lower capital and operating costs over the more conventional spray dryer absorber/fabric filter. The proposed combination has been successfully demonstrated on other projects including the Black Hills Power & Light's Neil Simpson Station where it is meeting a permit limit of 0.02 lb/mmBtu with measured levels of 0.009 and 0.007 lb/mmBtu after initial commissioning and one year of operation, respectively.
- All three options for the CFB boilers to reduce SO₂ emissions included particulate matter (PM₁₀/TSP) guarantees of 0.011 lb/mmBtu.
- Particulate Matter (PM/PM₁₀) emissions of 0.011 lb/mmBtu from the CFB boilers are less than or equal to other BACT determinations for similar sized CFB boilers. The use of a SDA/FF, CFBS/ESP, or CFBS/FF as an add-on AQCS is considered to be the most stringent control technology available and therefore constitutes BACT.

Limestone Dryers/Mills

Particulate matter emissions are generated as a result of the fuel combustion and the limestone milling operation. For rock dryers/mills, the most stringent control technology has been the use of add-on AQCS to reduce emissions to levels of 0.02 gr/dscf. As part of the BACT evaluation, the applicant's CFB boiler vendor identified a fabric filter as the most stringent control technology for controlling particulate matter emissions.

The use of a fabric filter for the direct control of particulate matter from the limestone dryers/mills was proposed by Pennsylvania Crusher Corporation and included a particulate matter guarantee of 0.01 gr/dscf. The applicant's proposed use of a fabric filter with a guaranteed grain loading of 0.01gr/dscf is the most stringent control technology and the most stringent emission limitation, and is therefore BACT.

Materials Handling and Storage Operations

Particulate matter emissions generated from materials handling and storage operations are typically controlled by one or more strategies. Typical strategies include but are not limited to the following:

- 1. Handling and storing bulk materials in a wet or semi-wet condition. These materials are considered "conditioned materials" and will typically have moisture contents greater than 3.5 percent.
- 2. Direct application of water and/or chemicals to bulk materials for purposes of increasing moisture content and/or stabilizing small particles is considered a "Wet Suppression" technique.
- 3. Indirect application of water to materials for purposes of knocking down fugitive dust once it is released from the operation is considered the use of "Water Sprays."
- 4. Total or partial enclosures, or wind breaks/guards to reduce or eliminate particulate emissions or causes of such emissions.
- 5. Best operating practices includes design features and operating practices to reduce or eliminate the causes of fugitive dust emissions.
- 6. Dust collection systems which collect and control particulate emissions from partial or totally enclosed operations with the use of an add-on AQCS.

APPENDIX BD

BEST AVAILABLE CONTROL TECHNOLOGY DETERMINATION (BACT)

The most stringent control technology is the total enclosure of the emissions unit or activity which is generating the particulate matter. However, in some cases this approach is not practical based on either economic or safety reasons and the available control strategies must be implemented.

For dry materials handling activities which are totally or partially enclosed and require industrial ventilation (Dust Collection System) for health or safety reasons, which accordingly and are vented to the outside, the use of an add-on AQCS is typically required as BACT. The most stringent control technology applied to dust collection systems is the use of a fabric filter. The most stringent emission limitation associated with materials handling operation AQCS's is a grain loading of 0.01 gr/dscf and a 5% opacity standard. The applicant has proposed that the following emissions units at NGS be equipped with dust collection systems equipped with fabric filters meeting the 0.01 gr/dscf and a 5% opacity limitation:

- Emissions Unit 29 Crusher House
- Emissions Unit 31 Boiler Fuel Silos
- Emissions Unit 32 Limestone Receiving Bins
- Emissions Unit 34 Limestone Crusher Conveyor Transfers
- Emissions Unit 35 Limestone Feed Silos
- Emissions Unit 36 Fly Ash Waste Bins
- Emissions Unit 37 Fly Ash Transfer and Storage Systems
- Emissions Unit 38 Bed Ash Transfer and Storage Systems
- Emissions Unit 40 Bed Ash Truck Loadout Systems
- Emissions Unit 41 Fly Ash Truck Loadout Systems
- Emissions Unit 42 Pebble Lime Silo

For the bed ash and fly ash hydrators (Emissions Unit 39), use of a fabric filter is not feasible due to the high water vapor content within the exhaust gas stream. Use of high efficiency venturi scrubbers was therefore proposed. The most stringent control technology applied to the hydrators is the use of a high efficiency venturi scrubber. The most stringent emission limitation associated with the hydrators is a 5% opacity standard as requested by the applicant.

For the materials handling and storage operations (Emissions Unit 28) which do not require ventilation for health or safety reasons, the applicant has proposed the use of control strategies 1-5 listed above, or combinations thereof. Implementation of the control strategies will ensure that the 5% opacity limitation is met from the operations. The following emissions units/activities will implement the associated control strategies as needed to meet a 5% opacity limitation:

- Transfer Towers Emissions Units 28c, 28g, 28i, 28o & 28q
- Enclosed Fuel Storage Pile Operations Emissions Unit 28h
- Limestone Lowering Well Emissions Unit 28d
- Fly & Bed Ash Hydrator Loadouts Emissions Unit 28r

For the conveyors, the applicant has proposed the use of conditioned materials, best operating practices and covers to eliminate particulate matter emissions. Implementation of the control strategies will ensure that visible emissions do not exceed 5 percent opacity from the operations.

For the Limestone Storage Pile and Reclaim Hopper (Emissions Unit 28p), the applicant has proposed the use of conditioned materials and water sprays on the pile and hopper, as needed, to control particulate matter emissions. Implementation of the control strategies will ensure that visible emissions do not exceed 10 percent opacity from the operations.

APPENDIX BD BEST AVAILABLE CONTROL TECHNOLOGY DETERMINATION (BACT)

For the Ship Unloading Operations (Emissions Unit 28a), the applicant has proposed the use of conditioned materials and partial enclosures of the shiphold and water sprays on the ship unloading hopper to control particulate matter emissions. Implementation of the control strategies will ensure that visible emissions do not exceed 10 percent opacity from the operations.

For the Ship Unloader Conveyor D-1, the applicant has proposed the use of conditioned materials and wind screens to control particulate matter emissions. Implementation of the control strategies will ensure that visible emissions do not exceed 10 percent opacity from the operations.

Information provided by the applicant indicated the economic impact associated with the use of additional dust collection systems equipped with a fabric filter would require an additional capital investment of about \$83,600 and annual operating costs of about \$37,900 per system. The economics were based on the individual transfer operations (<2 transfer points) with transfer rates 1,500 TPH and 2.42 million TPY of coal and petroleum coal, and 3.9 TPY of particulate matter emissions. With potential reductions of 99 percent over the proposed controls, use of a dust collection system and fabric filter resulted in an estimated incremental cost of about \$9,770 per ton. The \$9,770/ton incremental cost is excessive by comparison with the Department's Indiantown BACT Determinations which reported costs of \$9,244/ton as excessive. Therefore, BACT for the individual transfer operations is the use of conditioned materials, partial enclosures, water sprays, and/or wet suppression, as needed.

NITROGEN OXIDES (NOx) CONTROL TECHNOLOGIES

 NO_x is emitted from CFB boilers and the limestone dryers during the combustion process. The formation of NO_x occurs through one of three primary mechanisms which include the following:

- Thermal NO_x;
- Fuel NO_x; and
- Prompt NO_v.

Thermal NO_x refers to the mechanism by which NO_x is formed through the dissociation of molecular nitrogen and oxygen in the combustion air into their atomic states and through various reactions produce NO_x . At temperatures above 2.200 °F, thermal NO_x production is significant and increases exponentially as temperatures increase further. The primary factors impacting thermal NO_x production include temperature, oxygen and nitrogen concentrations, and the residence time within the combustion zone. These same factors impact complete combustion of the fuels.

Fuel NO_x refers to the mechanism by which NO_x is formed through the reduction and oxidation of nitrogen contained within the chemical structure of the fuel. This nitrogen is known as fuel bound nitrogen (FBN) and for solid and liquid fuels can be significant enough to make Fuel NO_x the primary mechanism.

Prompt NO_x refers to the mechanism by which NO_x is formed under fuel rich conditions through the formation of intermediate species and their eventual oxidation. The formation of prompt NO_x has a weak temperature dependence that can become strong under fuel rich conditions. Prompt NO_x typically contributes the smallest magnitude to the total overall NO_x emissions of the three formation methods discussed.

By understanding the mechanisms and chemical reactions which produce $NO_{\hat{x}}$ emissions, control strategies can be developed. These strategies include precombustion controls, combustion techniques, and post combustion techniques.

CFB Boilers

For CFB boilers, available control technologies which have been commercially demonstrated include the following:

- Precombustion Controls;
- Combustion Controls; and
- Selective Noncatalytic Reduction (SNCR).

Precombustion controls focus on fuel quality, specifically the maximum FBN within a given fuel. Information presented within the application indicated the use of coal with an estimated FBN content of 1.3 percent by weight

APPENDIX BD

BEST AVAILABLE CONTROL TECHNOLOGY DETERMINATION (BACT)

and petroleum coke with an estimated FBN content of 1.7 percent by weight. These values have been used by JEA for design purposes based on available fuels.

Combustion controls focus on reducing the production of both Thermal and Fuel NO_x by reducing combustion temperatures and limiting available oxygen. With operating bed temperatures between 1,500 °F and 1,600 °F, the amount of Thermal NO_x formed within a CFB boiler is less than that of conventional units (i.e., Stoker, Cyclone or Pulverized Coal Unit) making Thermal NO_x only a minor factor in overall NO_x emissions. In addition to their low operating temperature, CFB boilers can be designed to suppress Fuel NO_x by use of staged combustion. This is accomplished by directing less than a theoretical amount of combustion air through the distributor plate and adding the remaining combustion air above the dense bed. As a result, the FBN decomposes into molecular nitrogen rather than forming NO_x .

Selective non-catalytic reduction (SNCR) is a post combustion control technology involving the injection of either ammonia or urea into specific temperature regions of the CFB boiler. The ammonia or urea reacts with the NO_x to produce nitrogen and water. The effectiveness of the SNCR depends on the temperature where the reagents are injected; the mixing of the reagent within the combustion gases; the residence time of the reagent within the temperature window; and the ratio of reagent to NO_x . SNCR can reduce NO_x emissions by 50 to 70 percent over uncontrolled levels.

For CFB boilers of the size class proposed by the applicant, NO_x emissions as low as 0.11 lb/mmBtu have beeA achieved through precombustion controls, combustion controls, and SNCR. The applicant reported and the Department noted BACT and LAER determinations on smaller CFB boilers as low as 0.039 lb/mmBtu. The Department considered the size variations between the smaller units and the proposed unit and agreed with the applicant that the smaller units were not representative of the larger units proposed and thus can be excluded from the BACT evaluation. For the proposed CFB boilers, the applicant has received a vendor guarantee of 0.09 lb/mmBtu through the use of precombustion controls, combustion controls, and SNCR. This control strategy represents the most stringent control technology and the proposed emission limit is representative of the most stringent emission limitation for a CFB boiler of this size, and is therefore BACT.

While the use of SNCR is BACT and the most stringent control technology, the applicant evaluated the use of selective catalytic reduction (SCR) as a post combustion control technology to further reduce NO_x emissions. The applicant reported that its use would add significant capital costs to the project. In addition, there are uncertainties associated with its use as a transfer technology and it has never been demonstrated on a CFB boiler which raise technical feasibility issues. To avoid catalyst poisoning with the calcium in the limestone/bed media, the SCR would need to be installed after the SO₂ and PM AQCS and a reheat system incorporated to raise the flue gas temperature which would result in additional costs and impacts. Based on the identification of SNCR as BACT and uncertainties and costs of adding SCR as a transfer technology, the use of SCR was correctly rejected by the applicant.

Limestone Dryers/Mills

For the limestone dryers/mills, combustion controls focusing on reduction of Thermal NO_x are considered the most stringent control technology. For the dryers/mills, the vendor has provided a NO_x emissions estimate based on a rate of 0.2 lb/mmBtu which can be achieved through combustion controls using low-NOx burners. The use of combustion controls constitutes BACT for the limestone dryers/mills.

CARBON MONOXIDE (CO) CONTROL TECHNOLOGIES

Carbon monoxide (CO) emissions will be generated by the CFB Boilers and the limestone dryers/mills as a result of the incomplete combustion of the fuels. Review of the available control technologies is presented for each emissions unit classification.

CFB Boilers

The only control strategy currently used for controlling CO emissions from utility steam generators, including CFB boilers, are combustion controls. Combustion controls include the following:

- High Temperatures;
- Sufficient Excess Air;

APPENDIX BD BEST AVAILABLE CONTROL TECHNOLOGY DETERMINATION (BACT)

- Sufficient Residence Times: and
- Perfect Air/Fuel Mixing.

For somewhat smaller CFB boilers, compared to the size proposed by the applicant, CO emissions as low as 0.13 lb/mmBtu at full loads can be achieved through combustion controls. For each CFB boiler, the applicant has proposed an emission limit of 350 lb/hr (~0.13 lb/mmBtu @ Full Load) which has been guaranteed by the boiler vendor, to apply at all times other than during startup, shutdown, and malfunction conditions. For the CFB boilers, data provided by the applicant reveals higher CO emission rates at lower loads. The requested single mass emission limitation was proposed by the applicant in-lieu of 0.22 lb/mmBtu, which is "worst case" at lower loads, and covers operations over the load range. Based on the high degree of NO_x control and given the generally inverse relationship between CO and NO_x emission rates, the relatively low mass emission rate of 350 lb/hr for CO constitutes BACT.

At the request of the Department, the applicant investigated the use of transfer technologies including a thermal oxidizer and an oxidation catalyst. The Department's intent was to evaluate the availability of such add-on AQCS for use on steam generators and, if possible, further reduce CO emissions from the proposed CFB boilers. The applicant conducted the requested investigation but found that neither technology was technically or economically feasible for CFB boilers of the size contemplated. Technical feasibility of the catalyst required its location downstream of the add-on AQCS's, installation of a natural gas-fired reheat system, and use of a heat recovery system to minimize costs. Based on the US. Environmental Protection Agency's Cost Control Manual, the installation of such a system would increase the total capital cost of the project by \$2.6 million, with an annualized cost of \$21.8 million per year and a levelized cost of about \$19,990 per ton to further limit CO and VOC emissions. The addition of add-on controls would therefore reduce emissions, but at costs significantly higher than values which have been previously determined by the Department to be excessive.

For CFB boilers, the use of good combustion practices to minimize NO_x formation while maximizing combustion efficiency is recognized as the most stringent control technology for CO emissions. The proposed emission rates have been guaranteed by the CFB boiler manufacturer and constitute BACT.

Limestone Drvers/Mills

Carbon monoxide (CO) would be emitted from the limestone dryers/mills as a result of incomplete combustion of the fuels fired. The only control strategy currently used for controlling CO emissions from rock dryers, including limestone dryers/mills, is good combustion techniques. For limestone dryers/mills. CO emissions at 50 ppmv can be achieved through combustion controls. Combustion controls constitute BACT for the limestone dryers/mills.

VOLATILE ORGANIC COMPOUNDS (VOC) CONTROL TECHNOLOGIES

Volatile organic compound (VOC) emissions will be generated by the CFB Boilers and the limestone dryers/mills as a result of the incomplete combustion of the fuels as is CO. Review of the available control technologies is presented for each emissions unit classification.

CFB Boilers

Control strategies associated with VOC are the same as for CO.

For CFB boilers, VOC emissions as low as 0.004 lb/mmBtu through good combustion practices have been reported on a unit with a higher NOx emission rate of 0.125 lb/mmBtu. For each CFB boiler, the applicant has proposed emissions limit of 14 lb/hr (~0.005 lb/mmBtu @ Full Load). As with CO emissions, the use of good combustion practices to minimize NO_x formation while maximizing combustion efficiency is recognized as the most stringent control technology for CO emissions. The add-on controls as discussed for CO could reduce emissions but at costs significantly higher than values which have been previously determined by the Department to be excessive. The proposed emission rates have been guaranteed by the CFB boiler manufacturer and constitute BACT.

APPENDIX BD

BEST AVAILABLE CONTROL TECHNOLOGY DETERMINATION (BACT)

Limestone Dryers/Mills

VOCs are emitted from the limestone dryers/mills as a result of incomplete combustion of the fuels fired. The only control strategy currently used for controlling VOC emissions from rock dryers, including limestone dryers/mills, is good combustion techniques which represents the most stringent control technology. For limestone dryers/mills, VOC emissions at 0.02 lb/mmBtu can be achieved through combustion controls. Combustion controls constitute BACT for the limestone dryers/mills.

TOTAL FLUORIDE CONTROL TECHNOLOGIES

Total fluoride, expected to be emitted as hydrogen fluoride (HF), will be generated from the CFB boilers and Limestone Dryers/Mills as a result of trace amounts of fluoride within the fuels and limestone. Review of the available control technologies is presented for each emissions unit classification.

CFB Boiler

For CFB boilers, the most stringent control technology has been the use of an add-on PM AQCS and CFB boiler technology to reduce total fluorides emissions to levels of 1.36×10^{-3} lb/mmBtu. The available control options include the following:

- Spray Dryer Absorber/Fabric Filter; or
- Circulating Fluidized Bed Scrubber/Electrostatic Precipitator (ESP).
- Circulating fluidized bed scrubber with a fabric filter (proposed by ABB Environmental Services).

The fluoride contents of the coal, petroleum coke, and limestone were estimated as 0.0001 lb/lb, 0.000031 lb/lb, and 0.000001 lb/lb, respectively. The worst-case coal scenario results in uncontrolled fluoride emissions of 3.89×10^{-3} lb/mmBtu. The worst-case petroleum coke scenario results in uncontrolled fluoride emissions of 1.78×10^{-3} lb/mmBtu. These values represent worst case release rates which were presented by the applicant's CFB boiler vendor to the AQCS vendors. The AQCS vendors provided proposals and guarantees for fluoride removal by their systems of 0.43 lb/hr $(1.57 \times 10^{-4} \text{ lb/mmBtu})$.

The use of a SDA/FF, a CFBS/ESP, or a CFBS/FF will provide for the indirect control of fluoride from the CFB boilers. All three AQCS's included a fluoride guarantee of 1.57 x 10-4 lb/mmBtu which is lower than the most stringent emission limitation for a coal fired CFB boiler and represents BACT.

added

Total Fluoride (HF) emissions of 0.43-lb/hr, on a 3-hour average, from the CFB boilers are lower than other BACT determinations for similar sized CFB boilers. The use of a SDA/FF, CFBS/ESP, or CFBS/FF as add-on AQCS's is considered to be the most stringent control technology available and therefore constitutes BACT.

Limestone Drvers/Mills

For the limestone dryers/mills, the applicant has proposed fuel quality, the firing of natural gas and low sulfur distillate oil, as BACT which is considered the most stringent control technology. Both natural gas and low sulfur distillate oil contain insignificant amounts of fluoride and the Department considers their use as BACT.

MERCURY (Hg) CONTROL TECHNOLOGIES

Mercury emissions will be generated from the CFB boilers and Limestone Dryers/Mills. The mercury emitted from these operations is associated with trace amounts contained within the fuels and limestone used within each operation. Review of the available control technologies is presented for each emissions unit classification.

CFB Boilers

For CFB boilers, the most stringent control technology for mercury emissions has been the use of an add-on PM AQCS and CFB boiler technology to reduce mercury emissions to levels of 1.45 x 10-5 lb/mmBtu. The available control options include the following:

- Spray Dryer/Fabric Filter;
- Fluidized Bed Scrubber/Electrostatic Precipitator (ESP);

APPENDIX BD BEST AVAILABLE CONTROL TECHNOLOGY DETERMINATION (BACT)

- Fluidized Bed Scrubber/Fabric Filter; and
- Carbon Injection System

The mercury contents of the coal, petroleum coke, and limestone have been estimated at 1.70 x 10-7 lb/lb, 3.0 x 10-8 lb/lb, and 1.0 x 10-8 lb/lb, respectively. The worst-case coal scenario results in uncontrolled mercury emissions of 1.74 x 10-5 lb/mmBtu. The worst-case petroleum coke scenario results in uncontrolled mercury emissions of 1.47 x 10-5 lb/mmBtu. These values represent worst case release rates which were presented by the applicant's CFB boiler vendor to the AQCS vendors. The AQCS vendors provided proposals and guarantees that mercury emissions from their systems will not exceed 0.03 lb/hr. (1.05 x 10-5 lb/mmBtu). The use of either the SDA/FF, CFBS/ESP, or CFBS/FF will provide for the indirect control of mercury from the CFB boilers. All three AQCS's proposed included mercury guarantees of 1.05 x 10-5 lb/mmBtu which is more stringent than the most stringent emission limitation and represents BACT. The use of a carbon injection system designed to further control Hg emissions was evaluated based on a vendor quote by the applicant. Total capital costs of \$680,000, annualized costs of \$1,000,000 per year, and incremental costs of about \$9.5 x 106 per ton to control Hg emissions were estimated. The \$9.5 million per ton incremental cost is excessive and is consistent with other Department determinations which did not require add-on AQCS's for Hg. Because of the ability of the proposed AQCS to meet the most stringent emission limitation and consideration of the economic impacts the use of a SDA/FF, CFBS/ESP, or CFBS/FF is BACT.

Mercury (Hg) emissions of 0.03 lb/hr, on a 3-hour average, from the CFB boilers is lower than other BACT determinations for similar sized CFB boilers. The use of either a SDA/FF, CFBS/ESP, or CFBS/FF as add-on AQCS's is considered to be the most stringent control technology available and therefore constitutes BACT.

Limestone Dryers/Mills

For the limestone dryers/mills, the applicant has proposed fuel quality, the firing of natural gas and low sulfur distillate oil, as BACT which is considered the most stringent control technology. Both natural gas and low sulfur distillate oil contain insignificant amounts of mercury and the Department considers their use as BACT.

DEPARTMENT BACT DETERMINATION

Following are the BACT limits determined for the JEA Repowering Project. The emission limits as well as the applicable averaging times, are given in the permit Specific Conditions Nos. 12-22, 24, and 25.

CFB Boilers

PSD Pollutant	Control Technology	Proposed BACT Limit(s)
CO	Good Combustion Practices	350 lb/hr (24-hour block average)
NO _x	CFB Boiler Technology Selective Non-Catalytic Reduction (SNCR)	0.09 lb/mmBtu (30-day rolling average)
PM ₁₀ /TSP	CFB Boiler Technology Add-On Air Quality Control System (AQCS) Fabric Filter or Electrostatic Precipitator	0.011 lb/mmBtu (3-hour average) 10% opacity
VOC	Good Combustion Practices	14 lb/hr (3-hour average) (whichever is less)
Hg	CFB Boiler Technology SO ₂ & PM AQCS's	0.03 lb/hr (6-hour average)
HF	CFB Boiler Technology SO ₂ & PM AQCS's	0.43 lb/hr (3-hour average)

Attachment O

Description of Stack Sampling Facilities

All Emission Units at the Northside Generating Station have stack sampling facilities installed in according with Rule 62.297.310 (6) (attached), as required by Air Construction Permit No: 0310045-003-AC.

Rule 62.297.310(6)

- (6) Required Stack Sampling Facilities. Sampling facilities include sampling ports, work platforms, access to work platforms, electrical power, and sampling equipment support. All stack sampling facilities must meet any Occupational Safety and Health Administration (OSHA) Safety and Health Standards described in 29 CFR Part 1910, Subparts D and E.
- (a) Permanent Test Facilities. The owner or operator of an emissions unit for which a compliance test, other than a visible emissions test, is required on at least an annual basis, shall install and maintain permanent stack sampling facilities.
- (b) Temporary Test Facilities. The owner or operator of an emissions unit that is not required to conduct a compliance test on at least an annual basis may use permanent or temporary stack sampling facilities. If the owner chooses to use temporary sampling facilities on an emissions unit, and the Department elects to test the unit, such temporary facilities shall be installed on the emissions unit within 5 days of a request by the Department and remain on the emissions unit until the test is completed.
- (c) Sampling Ports.
- 1. All sampling ports shall have a minimum inside diameter of 3 inches.
- 2. The ports shall be capable of being sealed when not in use.
- 3. The sampling ports shall be located in the stack at least 2 stack diameters or equivalent diameters downstream and at least 0.5 stack diameter or equivalent diameter upstream from any fan, bend, constriction or other flow disturbance.
- 4. For emissions units for which a complete application to construct has been filed prior to December 1, 1980, at least two sampling ports, 90 degrees apart, shall be installed at each sampling location on all circular stacks that have an outside diameter of 15 feet or less. For stacks with a larger diameter, four sampling ports, each 90 degrees apart, shall be installed. For emissions units for which a complete application to construct is filed on or after December 1, 1980, at least two sampling ports, 90 degrees apart, shall be installed at each sampling location on all circular stacks that have an outside diameter of 10 feet or less. For stacks with larger diameters, four sampling ports, each 90 degrees apart, shall be installed. On horizontal circular ducts, the ports shall be located so that the probe can enter the stack vertically, horizontally or at a 45 degree angle.
- 5. On rectangular ducts, the cross sectional area shall be divided into the number of equal areas in accordance with EPA Method 1. Sampling ports shall be provided which allow access to each sampling point. The ports shall be located so that the probe can be inserted perpendicular to the gas flow.
- (d) Work Platforms.
- 1. Minimum size of the working platform shall be 24 square feet in area. Platforms shall be at least 3 feet wide.
- 2. On circular stacks with 2 sampling ports, the platform shall extend at least 110 degrees around the stack.

- 3. On circular stacks with more than two sampling ports, the work platform shall extend 360 degrees around the stack.
- 4. All platforms shall be equipped with an adequate safety rail (ropes are not acceptable), toeboard, and hinged floor-opening cover if ladder access is used to reach the platform. The safety rail directly in line with the sampling ports shall be removable so that no obstruction exists in an area 14 inches below each sample port and 6 inches on either side of the sampling port. (e) Access to Work Platform.
- 1. Ladders to the work platform exceeding 15 feet in length shall have safety cages or fall arresters with a minimum of 3 compatible safety belts available for use by sampling personnel.
- 2. Walkways over free-fall areas shall be equipped with safety rails and toeboards.
- (f) Electrical Power.
- 1. A minimum of two 120-volt AC, 20-amp outlets shall be provided at the sampling platform within 20 feet of each sampling port.
- 2. If extension cords are used to provide the electrical power, they shall be kept on the plant's property and be available immediately upon request by sampling personnel. (g) Sampling Equipment Support.
- 1. A three-quarter inch eyebolt and an angle bracket shall be attached directly above each port on vertical stacks and above each row of sampling ports on the sides of horizontal ducts.
- a. The bracket shall be a standard 3 inch \times 3 inch \times one-quarter inch equal-legs bracket which is 1 and one-half inches wide. A hole that is one-half inch in diameter shall be drilled through the exact center of the horizontal portion of the bracket. The horizontal portion of the bracket shall be located 14 inches above the centerline of the sampling port.
- b. A three-eighth inch bolt which protrudes 2 inches from the stack may be substituted for the required bracket. The bolt shall be located 15 and one-half inches above the centerline of the sampling port.
- c. The three-quarter inch eyebolt shall be capable of supporting a 500 pound working load. For stacks that are less than 12 feet in diameter, the eyebolt shall be located 48 inches above the horizontal portion of the angle bracket. For stacks that are greater than or equal to 12 feet in diameter, the eyebolt shall be located 60 inches above the horizontal portion of the angle bracket. If the eyebolt is more than 120 inches above the platform, a length of chain shall be attached to it to bring the free end of the chain to
- within safe reach from the platform.
- A complete monorail or dualrail arrangement may be substituted for the eyebolt and bracket.
- 3. When the sample ports are located in the top of a horizontal duct, a frame shall be provided above the port to allow the sample probe to be secured during the test.
- (7) Frequency of Compliance Tests. The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required. (a) General Compliance Testing.
- 1. The owner or operator of a new or modified emissions unit that is subject to an emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining an operation permit for such emissions unit.
- 2. For excess emission limitations for particulate matter specified in Rule 62-210.700, F.A.C., a compliance test shall be conducted annually while the emissions unit is operating under soot blowing conditions in each federal fiscal year during which soot blowing is part of normal

- emissions unit operation, except that such test shall not be required in any federal fiscal year in which a fossil fuel steam generator does not burn liquid and/or solid fuel for more than 400 hours other than during startup.
- 3. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:
- a. Did not operate; or
- b. In the case of a fuel burning emissions unit, burned liquid and/or solid fuel for a total of no more than 400 hours,
- 4. During each federal fiscal year (October 1 September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:
- a. Visible emissions, if there is an applicable standard;
- b. Each of the following pollutants, if there is an applicable standard, and if the emissions unit emits or has the potential to emit: 5 tons per year or more of lead or lead compounds measured as elemental lead; 30 tons per year or more of acrylonitrile; or
- 100 tons per year or more of any other regulated air pollutant; and
- c. Each NESHAP pollutant, if there is an applicable emission standard.
- 5. An annual compliance test for particulate matter emissions shall not be required for any fuel burning emissions unit that, in a federal fiscal year, does not burn liquid and/or solid fuel, other than during startup, for a total of more than 400 hours.
- 6. For fossil fuel steam generators on a semi-annual particulate matter emission compliance testing schedule, a compliance test shall not be required for any six-month period in which liquid and/or solid fuel is not burned for more than 200 hours other than during startup.
- 7. For emissions units electing to conduct particulate matter emission compliance testing quarterly pursuant to Rule 62-296.405(2)(a), F.A.C., a compliance test shall not be required for any quarter in which liquid and/or solid fuel is not burned for more than 100 hours other than during startup.
- 8. Any combustion turbine that does not operate for more than 400 hours per year shall conduct a visible emissions compliance test once per each five-year period, coinciding with the term of its air operation permit.
- 9. The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.
- 10. An annual compliance test conducted for visible emissions shall not be required for units exempted from air permitting pursuant to Rule 62-210.300(3), F.A.C.; units determined to be insignificant pursuant to Rule 62-213.300(2)(a)1., F.A.C., or Rule 62-213.430(6)(b), F.A.C.; or units permitted under the General Permit provisions in Rule 62-210.300(4)(a) or Rule 62-213.300,F.A.C., unless the general permit specifically requires such testing.

- (b) Special Compliance Tests. When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.
- (c) Waiver of Compliance Test Requirements. If the owner or operator of an emissions unit that is subject to a compliance test requirement demonstrates to the Department, pursuant to the procedure established in Rule 62-297.620, F.A.C., that the compliance of the emissions unit with an applicable weight emission limiting standard can be adequately determined by means other than the designated test procedure, such as specifying a surrogate standard of no visible emissions for particulate matter sources equipped with a bag house or specifying a fuel analysis for sulfur dioxide emissions, the Department shall waive the compliance test requirements for such emissions units and order that the alternate means of determining compliance be used, provided, however, the provisions of Rule 62-297.310(7)(b), F.A.C., shall apply.
- (8) Test Reports.
- (a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test.
- (b) The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed.
- (c) The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:
- 1. The type, location, and designation of the emissions unit tested.
- 2. The facility at which the emissions unit is located.
- 3. The owner or operator of the emissions unit.
- 4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
- 5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
- 6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
- 7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.
- 8. The date, starting time and duration of each sampling run.
- 9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.
- 10. The number of points sampled and configuration and location of the sampling plane.

- 11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.
- 12. The type, manufacturer and configuration of the sampling equipment used.
- 13. Data related to the required calibration of the test equipment.
- 14. Data on the identification, processing and weights of all filters used.
- 15. Data on the types and amounts of any chemical solutions used.
- 16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.
- 17. The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.
- 18. All measured and calculated data required to be determined by each applicable test procedure for each run.
- 19. The detailed calculations for one run that relate the collected data to the calculated emission rate.
- 20. The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.
- 21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.
- (9) The terms stack and duct are used interchangeably in this rule.

Specific Authority 403.061 FS. Law Implemented 403.031, 403.061, 403.087 FS. History—Formerly 17-2.700(1)(b), 17-297.310, Amended 11-23-94, 3-13-96, 10-28-97, 3-2-99.

Attachment P

Compliance Test Reports

4377 Heckscher Drive

Jacksonville, Florida 32225-3099



Mr. Wayne Tutt, QEP
Environmental Program Supervisor
Air & Water Quality Division
Regulatory Environmental Services Department (RESD)
City Hall at St. James
117 West Duval Street, Suite 225
Jacksonville, FL 32202

Dear Sir:

RE: Northside Generating Station; Unit #2 - Stack Test Report

Dear Sir;

Enclosed please find the stack test report for Northside Generating Station; Unit #2 operating on petroleum coke fuel. It is noted that the sulfuric acid mist results are in excess of the permit limit. Steps are being taken to correct this situation and retest the unit.

If you have any questions or need additional information, please call Bert Gianazza at 904-665-6247.

Sincerely,

Joseph W. Werner, PE

Enclosures

cc: Errin Pichard, PE, DEP

S. Hughes

R. Stroupe

C. Crosby

J. Bennett

B.Gianazza

K.Davis

R.Dyr

W.Goodrich

D. Norse

J. Werner

File

Attachment Q

Procedures for Startup and Shutdown

PROCEDURES FOR STARTUP AND SHUTDOWN

Startup and shutdown of the CFBs will be performed according to a written procedure that is currently being developed based on operating experience to describe the best operating practices to be followed and the anticipated emissions for startup and shutdown. This report is due to the DEP within one year after initial startup of Unit 2 per Condition 26 of PSD-FL-265.

Attachment R

Operation and Maintenance Plan

OPERATION AND MAINTENANCE PLAN

The operation and maintenance plan for the facility is currently being developed as part of the best operating practices plan. A draft version of the plan is currently under review and will be provided to the FDEP upon review and finalization.

An excerpt of the plan is provided below:

Draft Fabric Filer bag Inspection and Diagnostics Procedure

The following draft procedure is for the regular maintenance and inspection of the Unit 1 and Unit 2 fabric filter bags, and for diagnosing excessive opacity or particulate matter during operation. This procedure is currently being developed based on operating experience of the CFBs and will be maintained in final hard-copy form as part of the Operation and Maintenance (O&M) Plan at the facility once finalized.

Introduction

Typical bag failures result from tears from external objects, rubbing wear at points where the bag is in contact with other surfaces, rubbing wear where the bag contacts the cage, failure of the bag to remain attached to the tube sheet, melting or fire due to excessive temperature and fabric failure due to fatigue. External indicators of bag failure include opacity spikes during or after cleaning a compartment, continuously elevated opacity, and excessive particulate matter (PM) emissions. Internal indicators include ash buildup on the tube sheet, ash buildup in the bottom of the bag, melted bags or loss of the bag into the ash hopper.

At the Northside Generating Station, each baghouse has eight compartments that can be individually isolated even while the unit is online to facilitate inspection or perform repairs of the filter bags or other internal components. In the event of a bag or hopper failure, the affected compartment(s) can be isolated and closed to temporarily reduce emissions the repair is being conducted.

Step1: Operational Diagnostics

During operation, one of the primary indicators of bag failure will be increased opacity. A second indicator would be uncharacteristic particulate test results. Increased opacity or increased PM may be continuous or may occur during a cleaning cycle. In order to identify the cause of excess opacity, it will be necessary to determine if processes such as cleaning or other normal functions that cause excess opacity are being performed. If bag failure is identified as a cause, it is necessary to first identify the compartment that is causing excessive opacity. If the opacity spikes are observed during the baghouse cleaning cycle, it is possible to simply observe which compartment is being cleaned when the spike occurs. This may be made more evident by repeatedly cleaning a suspected compartment. If the compartment cannot be identified, or if the increased opacity or PM appears to be fairly continuous, then verification of opacity measurements is conducted to eliminate the possibility of an invalid opacity reading. If a substantial drop in opacity is observed when a compartment is isolated, then the responsible compartment is identified. It is important to note that more than one compartment may be

responsible for leakage. If opacity measurements can be maintained below excursion levels with the isolation of the identified compartments, operation of the baghouse will be continued.

Step 2: Locating a Failed Bag

To locate a failed bag it is necessary to isolate and enter a baghouse compartment. The decision whether to do this on-line or wait for an outage is made by the responsible parties. Once the compartment with a failed bag has been isolated (with the boiler in or out of service) the compartment covers can be removed. After removing the covers there will be several visual observations that can be used to locate failed bags. The most obvious indication of a failed bag is a buildup of ash on the tube sheet around the failed bag. Other inspections include looking for a bag that is partially full of ash or has fallen off of the tube sheet. Bags sometimes fall off of a tube sheet due to improper installation, but they can also fall off due to ash collection inside the bag. When the bag leaks, ash can accumulate in the bag below the leak. The weight of the bag increases beyond what the attachment can hold and the bag falls off. Under certain circumstances (not typical in this type of baghouse) bags can also be pulled off due to high ash levels covering the bottoms of the bags. As the ash level drops, its weight causes the bag to come loose. Melted bags can easily be identified, and generally the whole compartment or baghouse will be damaged. If no leaks are found, based on the findings of the responsible parties, the compartment can be covered and put back into service, and the process of isolating compartments repeated again.

If no obvious leaks can be found, and the compartment location procedure continues to indicate a problem, then fluorescent powder can be used to locate the leakage. Fluorescent powder is drawn into the flue gas stream either ahead of the baghouse inlet or at the suspected compartment. The compartment is then isolated and the tubesheet and bags are inspected as above except using black light. The fluorescent dye is readily identifiable under black light. If the dye does not indicate a definite location of leakage but shows a uniform coating all over the tube sheet and bags, then it is possible that there is not an isolated bag failure but the bags have reached their fatigue life and are leaking through.

Step 3: Bag Replacement

Once the failed bag or bags are located, the bag(s) should be removed and replaced. Unless the failure mode is obvious the failed bag should be boxed and marked with the unit number, baghouse compartment and removal date. These bags can then be sent off-site to a bag manufacturer and analyzed for failure mode and remaining life. Once the bags are replaced the tubesheet should be vacuumed clean so that future buildup of material on the tube sheet can be used as an indicator of a failed bag.

Additional Information

Annual Outages

During scheduled annual outages (at least once per year) the fabric filter compartment covers should be removed and each fabric filter compartment should be inspected and cleaned as described above under "Locating a Failed Bag". Even if no failed bags are found, at least one bag from each compartment should be removed, boxed and marked with the unit number,

baghouse compartment and removal date. These bags should be sent off-site to a bag manufacturer and analyzed for remaining life, and if applicable for failure mode. A new bag should be installed in place of any bag removed for sampling or failure. As noted above, upon completion of the compartment inspections the tube sheets should be vacuumed clean so that future buildup of material on the tube sheet can be used as an indicator of a failed bag.

Bag Replacement Program

It is estimated that bag life will typically be between five and seven years. Many operational factors affect bag life. The results of the yearly bag samples can be used to estimate the remaining life of the bags, and to schedule ordering of replacement bags. Decisions must be made about whether a wholesale changeout of all the bags will be performed at the same time, or whether bags will be replaced by compartment on a rotating basis. Economics, supply and outage time typically dictate that bag replacement be done by compartment on a rotating basis. In such case, the first round of bag replacements must be scheduled so that the last compartment will be changed out at the end of its projected life. This process will be initiated as experience with these bags is gained through O&M history and bag analysis.

COMPLIANCE ASSURANCE MONITORING PROTOCOL BAGHOUSE FOR PARTICULATE MATTER CONTROL NORTHSIDE GENERATING STATION UNITS 1 & 2

Background

A. Emissions Unit

Description: (2) 2,764 mmBtu/hr coal and petroleum

coke-fired boilers

Identification: Units 1 (EU027) and 2 (EU026)

Facility: Northside Generating Station

Jacksonville, FL

B. Applicable Regulation, Emissions Limit, and Monitoring Requirements

Regulation: 40 CFR 60, Subpart Da

40 CFR 75

Permit No: 0310045-003-AC (PSD-FL-265)

Emissions Limits:

Particulate matter:

Opacity:

0.011 lb/mmBtu based on 3-hour average

10% opacity based on 6-minute average

Monitoring Requirements: Continuous opacity monitoring using a

Continuous Opacity Monitoring System

(COMS)

C. Control Technology

Each boiler is equipped with a pulse-jet fabric filter for control of particulate emissions. Both boilers exhaust through separate stacks.

Monitoring Approach

The key elements of the monitoring approach for PM are presented in Table 1. The continuous opacity monitoring system (COMS) will be used to assure compliance with the opacity limit. Opacity will also be used as the primary performance indicator for demonstrating compliance with the particulate matter emission limitations.

Corrective Action

The key elements of the Fabric Filter Bag Inspection and Diagnostic Procedures (FFBIDP) as presented in the Operations and Maintenance Plan (O&M Plan) are presented in Table 2. In the event of an excursion, as defined in Table 1, the procedures will be initiated as deemed appropriate to ensure that the indicators are restored to normal operating condition.

Table 1. Monitoring Approach

	Compliance Indicator	
Indicator	Stack opacity	
Measurement Approach	Continuous opacity monitoring system (COMS)	
Indicator Range	An excursion is defined as 10 consecutive 6-minute averages of opacity greater than 7.5%.	
Performance Criteria	·	
A. Data Representativeness	Based on available data under normal operation, the representative stack opacity of each unit is <	
	5 %. An 50% average opacity above 5% during non-startup or shutdown periods is atypical and	
	may indicate a potential problem with the baghouse.	
B. Verification of Operational	Annual testing during normal operation is used to calibrate the opacity monitor and determine	
Status	the opacity and verify particulate mass loading.	
C. QA/QC Practices and Criteria	Install and operate COMS according to 40 CFR Appendix B, Performance Specification 1 and	
	general provisions 60.13.	
D. Monitoring Frequency	Continuous.	
Data Collection Procedures	The COMs collects a data point every second. The 1-second data are reduced to a 6-minute	
·	averages. (10 consecutive 6-minute averages greater than 7.5% indicate an excursion)	
F. Averaging Period	One hour.	

Table 2. Corrective Action Procedures Summary

		Description
I.	Initiation of Corrective Action Procedures	Corrective action shall be initiated with the discovery of a 10 consecutive 6-minute averages of opacity greater than the opacity that defines an excursion (as defined in Table 1). The plant staff that made the discovery shall immediately notify the shift supervisor or responsible official. This action describes a corrective action trigger.
II.	Time of Completion of Corrective Action Procedures	As soon as practically possible.
III.	Corrective Action	The shift supervisor or responsible official will implement the following as a corrective action.
		Procedures as described in the Fabric Filter Bag Inspection and Diagnostic Procedures (FFBIDP) as presented in the Operations and Maintenance Plan (O&M Plan) includes the following alternatives that will be initiated as necessary. • Perform operational diagnostics to identify cause of the excursion. • If operational diagnostics indicate the failure of a bag(s), the failed bag will be identified and the reason for failure will be identified. • If isolation of the compartment can be accomplished to reduce opacity below the excursion, such measures will be undertaken. • In the event of the need for bag replacement, the task will be undertaken based on procedures described in the O&M Plan for the facility. Regardless of the failure mechanism, baghouse operation will be restored such that the cause of excursion is identified and appropriate actions taken to ensure opacity below excursion levels.

MONITORING APPROACH JUSTIFICATION

I. Background

Units 1 and 2 at JEA's Northside Generating Station are identical, Circulating Fluidized Bed boilers (CFB), each with a rated heat input of 2,764 mmBtu/hr. Both units emit through separate, dedicated stacks and use fluidized bed sulfur capture as well as spray dryer flue gas desulfurization (FGD) for SO₂ control. Fluidized bed boilers are inherently low in NO_X production because of the low combustion temperature. JEA has also added selective non-catalytic reduction (SCR) equipment for additional NO_x control. Units 1 and 2 originally became operational in 1965 and 1972, respectively. Both units were repowered as CFB boilers in 2001. Each unit is capable of burning coal and petroleum coke (pet-coke). Both units are also permitted to burn coal and pet-coke mixtures with no limitations on fuel blend ratios. During normal operation, the unit will typically burn 100 percent petroleum coke or a blend of up to 70 percent coke and 30 percent coal

Both units are subject to 40 CFR 60, Subpart D and 40 CFR 75. The opacity limit for both units, regardless of fuel mix, is 10% based on a 6-minute average. The particulate mass limit for both units, regardless of fuel mix, is 0.011 lb/mmBtu (3-hour average). The mass limit reflects a 10% reduction from the original operating permit as a result of a Community Commitment in the repowering project.

Particulate emissions from each boiler are controlled by a pulse-jet, fabric filter. The fabric filter unit is a Wheelabrator design with eight compartments and a total effective filtering area of 250,000 ft². Each compartment can be independently isolated from the others while the unit is online to facilitate bag cleaning, inspection, and repair. Each compartment also contains a dedicated ash-hopper. Ash is continuously removed from each hopper and transported to a fly-ash silo by pneumatic conveyor.

The fabric filter cleaning system uses a reverse pulse of compressed air to dislodge particulate matter in the filter bags. The system has two modes of operation: on-line and offline. In on-line mode, all compartments are open and a pulse of compressed air is injected into four rows of bags. In off-line mode, one compartment is completely isolated until all rows of bags within that compartment are cleaned. The cleaning sequence is automatically controlled either by pre-set time intervals or pressure differential controller.

II. Rationale for Selection of Performance Indicators

The primary performance indicator is stack opacity. Opacity is a convenient and common parameter that can be used at any point in time, to indicate whether or not emissions are going up or down. If the opacity is increasing, it can be reasonably assumed that the particulate mass emissions are also increasing.

Although opacity does not quantify actual mass emissions or changes in mass emissions, it can be useful as a parametric surrogate for particulate mass emissions in certain cases. Boilers 1 and 2 are base-loaded units that typically burn the same fuel mixture during normal operating conditions. While the correlation between opacity and mass can vary with the particle size distribution and refractive index of the ash particles, there is little reason to suspect that either of these factors will change during the steady-state operation of either boiler. The opacity/mass correlation should remain relatively constant. As a result, opacity will give a general indication as to the relative change in mass emissions.

CORRECTIVE ACTION (EXCURSION RESOLUTION) PROCEDURE

Background

Typical bag failures result from tears from external objects, rubbing wear at points where the bag is in contact with other surfaces, rubbing wear where the bag contacts the cage, failure of the bag to remain attached to the tube sheet, melting or fire due to excessive temperature and fabric failure due to fatigue. External indicators of bag failure include opacity spikes during or after cleaning a compartment, or excessive particulate matter (PM) emissions. Internal indicators include ash buildup on the tube sheet, ash buildup in the bottom of the bag, melted bags or loss of the bag into the ash hopper.

At the Northside Generating Station, each baghouse has eight compartments that can be individually isolated even while the unit is online to facilitate inspection or perform repairs of the filter bags or other internal components. In the event of a bag or hopper failure, the affected compartment(s) can be isolated and closed to temporarily reduce emissions the repair is being conducted.

Procedure

The following is a discussion of the Corrective Action (Excursion Resolution) Procedure based on the Fabric Filter Bag Inspection and Diagnostic Procedures (FFBIDP) as presented in the Operations and Maintenance Plan (O&M Plan). A hard-copy of the plan is located at the facility site:

A. Initiation of Corrective Action

A Corrective Action/Excursion Event is defined as a one-hour average opacity of greater than 7.5% opacity (10 consecutive 6-minute averages). Once a corrective action event has been identified either by audible or visible alarm from the continuous opacity monitoring system, Corrective Action is initiated.

B. Notification of shift supervisor or responsible official

The plant employee discovering the corrective action event shall notify the shift supervisor or plant environmental coordinator as soon as possible.

- C. Fabric Filter Bag Inspection and Diagnostic Procedures (FFBIDP) as presented in the Operations and Maintenance Plan (O&M Plan).
 - Perform operational diagnostics to identify cause of the excursion.
 - If operational diagnostics indicate the failure of a bag(s), the failed bag will be identified and the reason for failure will be identified.
 - If isolation of the compartment can be accomplished to reduce opacity below the excursion, such measures will be undertaken.

• In the event of the need for bag replacement, the task will be undertaken based on procedures described in the O&M Plan for the facility.

D. Identification and Resolution of the Corrective Action Event

Once Corrective Action has been taken, the cause of the corrective action event shall be identified and the necessary repairs (if any) shall be made to restore the opacity levels to below excursion levels. At this point, emissions have been reduced and Corrective Action is complete.

E. Recordkeeping and Reporting

The shift supervisor and operations personnel are responsible for maintaining records of the start and end of a corrective action event or an excursion. An excursion is defined as a one-hour average opacity greater than 7.5%. An excursion is a reportable event under the Compliance Assurance Monitoring regulation. In the event of an excursion, the plant Environmental Supervisor is responsible for reporting this excursion. The excursion report shall include the date and time interval associated with the excursion and the corrective action initiated. Other details associated with the excursion may be included in the report at the discretion of the Environmental Supervisor. All excursions are to be included in the semi-annual report of compliance status.

Draft Fabric Filer bag Inspection and Diagnostics Procedure

The following draft procedure is for the regular maintenance and inspection of the Unit 1 and Unit 2 fabric filter bags, and for diagnosing excessive opacity or particulate matter during operation. This procedure is currently being developed based on operating experience of the CFBs and will be maintained in final hard-copy form as part of the Operation and Maintenance (O&M) Plan at the facility once finalized.

Introduction

Typical bag failures result from tears from external objects, rubbing wear at points where the bag is in contact with other surfaces, rubbing wear where the bag contacts the cage, failure of the bag to remain attached to the tube sheet, melting or fire due to excessive temperature and fabric failure due to fatigue. External indicators of bag failure include opacity spikes during or after cleaning a compartment, continuously elevated opacity, and or excessive particulate matter (PM) emissions. Internal indicators include ash buildup on the tube sheet, ash buildup in the bottom of the bag, melted bags or loss of the bag into the ash hopper.

At the Northside Generating Station, each baghouse has eight compartments that can be individually isolated even while the unit is online to facilitate inspection or perform repairs of the filter bags or other internal components. In the event of a bag or hopper failure, the affected compartment(s) can be isolated and closed to temporarily reduce emissions the repair is being conducted.

Step1: Operational Diagnostics

During operation, one of the primary indicators of bag failure will be increased opacity. A second indicator would be uncharacteristic particulate test results. Increased opacity or increased PM may be continuous or may occur during a cleaning cycle. In order to identify the cause of excess opacity, it will be necessary to determine if processes such as cleaning or other normal functions that cause excess opacity are being performed. If bag failure is identified as a cause, it is necessary to first identify the compartment that is causing excessive opacity. If the opacity spikes are observed during the baghouse cleaning cycle, it is possible to simply observe which compartment is being cleaned when the spike occurs. This may be made more evident by repeatedly cleaning a suspected compartment. If the compartment cannot be identified, or if the increased opacity or PM appears to be fairly continuous, then verification of opacity measurements is conducted to eliminate the possibility of an invalid opacity reading. If a substantial drop in opacity is observed when a compartment is isolated, then the responsible compartment is identified. It is important to note that more than one compartment may be responsible for leakage. If opacity measurements can be maintained below excursion levels with the isolation of the identified compartments, operation of the baghouse will be continued.

Step 2: Locating a Failed Bag

To locate a failed bag it is necessary to isolate and enter a baghouse compartment. The decision whether to do this on-line or wait for an outage is made by the responsible parties. Once the

compartment with a failed bag has been isolated (with the boiler in or out of service) the compartment covers can be removed. After removing the covers there will be several visual observations that can be used to locate failed bags. The most obvious indication of a failed bag is a buildup of ash on the tube sheet around the failed bag. Other inspections include looking for a bag that is partially full of ash or has fallen off of the tube sheet. Bags sometimes fall off of a tube sheet due to improper installation, but they can also fall off due to ash collection inside the bag. When the bag leaks, ash can accumulate in the bag below the leak. The weight of the bag increases beyond what the attachment can hold and the bag falls off. Under certain circumstances (not typical in this type of baghouse) bags can also be pulled off due to high ash levels covering the bottoms of the bags. As the ash level drops, its weight causes the bag to come loose. Melted bags can easily be identified, and generally the whole compartment or baghouse will be damaged. If no leaks are found, based on the findings of the responsible parties, the compartment can be covered and put back into service, and the process of isolating compartments repeated again.

If no obvious leaks can be found, and the compartment location procedure continues to indicate a problem, then fluorescent powder can be used to locate the leakage. Fluorescent powder is drawn into the flue gas stream either ahead of the baghouse inlet or at the suspected compartment. The compartment is then isolated and the tubesheet and bags are inspected as above except using black light. The fluorescent dye is readily identifiable under black light. If the dye does not indicate a definite location of leakage but shows a uniform coating all over the tube sheet and bags, then it is possible that there is not an isolated bag failure but the bags have reached their fatigue life and are leaking through.

Step 3: Bag Replacement

Once the failed bag or bags are located, the bag(s) should be removed and replaced. Unless the failure mode is obvious the failed bag should be boxed and marked with the unit number, baghouse compartment and removal date. These bags can then be sent off-site to a bag manufacturer and analyzed for failure mode and remaining life. Once the bags are replaced the tubesheet should be vacuumed clean so that future buildup of material on the tube sheet can be used as an indicator of a failed bag.

Additional Information

Annual Outages

During scheduled annual outages (at least once per year) the fabric filter compartment covers should be removed and each fabric filter compartment should be inspected and cleaned as described above under "Locating a Failed Bag". Even if no failed bags are found, at least one bag from each compartment should be removed, boxed and marked with the unit number, baghouse compartment and removal date. These bags should be sent off-site to a bag manufacturer and analyzed for remaining life, and if applicable for failure mode. A new bag should be installed in place of any bag removed for sampling or failure. As noted above, upon completion of the compartment inspections the tube sheets should be vacuumed clean so that future buildup of material on the tube sheet can be used as an indicator of a failed bag.

Bag Replacement Program

It is estimated that bag life will typically be between five and seven years. Many operational factors affect bag life. The results of the yearly bag samples can be used to estimate the remaining life of the bags, and to schedule ordering of replacement bags. Decisions must be made about whether a wholesale changeout of all the bags will be performed at the same time, or whether bags will be replaced by compartment on a rotating basis. Economics, supply and outage time typically dictate that bag replacement be done by compartment on a rotating basis. In such case, the first round of bag replacements must be scheduled so that the last compartment will be changed out at the end of its projected life. This process will be initiated as experience with these bags is gained through O&M history and bag analysis.

Attachment S

Compliance Assurance Monitoring Plan

Attachment T

Acid Rain Part Application



Certificate of Representation

Page 1

STEP 1
Identify the source by plant name, State, and
ORIS-code.

STEP 2 Enter requested information for the designated representative.

STEP 3 Enter requested in termation for the talk hate designated representative, if

For more information, see instructions and refer to 4 This submission is: New Revised (revised)		e complete	d in fill; see instructions
This submission includes combustion or process so			a in uii, see insudciions
Plant Name Northside Generating Station	51	ate FL	0667 DRIS Code
Name James Chansler, VP of Operations			
Address 21 West Church Street Jacksonville, Æ 32202			
Phone Number (904) 665-4433	Fax Number (904	1) 665-6731	ı
E-mail address (if available) chanjm@jea.com			
Name Susan Hughes, VP of Environmental Services			
Phone Number (904) 665-6248	Fax Number (904)	665-7376	
-mail address (if available) hughsn@jea.com			

I certify that I was selected as the designated representative or alternate designated representative, as applicable, by an agreement binding on the owners and operators of the affected source and each affected unit at the source.

I certify that I have given notice of the agreement, selecting me as the 'designated representative' for the affected source and each affected unit at the source identified in this certificate of representation, in a newspaper of general circulation in the area where the source is located or in a State publication designed to give general public notice.

I certify that I have all necessary authority to carry out my duties and responsibilities under the Acid Rain Program on behalf of the owners and operators of the affected source and of each affected unit at the source and that each such owner and operator shall be fully bound by my actions, inactions, or submissions.

I certify that I shall abide by any fiduciary responsibilities imposed by the agreement by which I was selected as designated representative or alternate designated representative, as applicable.

I certify that the owners and operators of the affected source and of each affected unit at the source shall be bound by any order issued to me by the Administrator, the permitting authority, or a court regarding the source or unit.

combustion or process source is located.

Best Available Copy

where there are multiple holders of a legal or equitable title to, or a leasehold interest in, an affected unit, or where a utility or industrial customer purchases power from an affected unit under life-of-the-unit, firm power contractual arrangements, I certify that:

I have given a written notice of my selection as the designated representative or alternate designated representative, as applicable, and of the agreement by which I was selected to each owner and operator of the affected source and of each affected unit at the source; and

Allowances and the proceeds of transactions involving allowances will be deemed to be held or distributed in proportion to each holder's legal, equitable, leasehold, or contractual reservation or entitlement or, if such multiple holders have expressly provided for a different distribution of allowances by contract, that allowances and the proceeds of transactions involving allowances will be deemed to be held or distributed in accordance with the contract.

The agreement by which I was selected as the alternate designated representative, if applicable, includes a procedure for the owners and operators of the source and affected units at the source to authorize the alternate designated representative to act in lieu of the designated representative.

		1
Plant Name (from Step 1)	Northside Generating Station	Certificate - Page 2 Page 2 of 2

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Signature (designated representative)	9.28.01 Date
Signature (alternate designated representative)	Date 9/20/01

step 5

vide the name of ry owner and operator of the source and identify each affected unit (or combustion or process source) they own and/or operate.

Name	JEA	✓ Owner	Operator			
-					- Zi Olilici	- Operator
ł		1	1	ľ		
ID# 1a	ID# 2a	ID#_1	ID# 2	ID# 3	ID#	ID#
1						
ID#	ID#	iD#	ID#	ID#	ID#	ID#

Name					Owner	Operator
ID#	ID#	ID#	ID#	ID#_	ID#	ID#
ID#	ID#	ID#_	ID#	ID#	ID#	ID#

Name					Owner	C Operator
- Traine					· Owner	Operator
ID#	ID#	ID#_	ID#	ID#	ID#	ID#
ID#	ID#	ID#	ID#	ID#	ID#	ID#

Phase II Permit Application

For more information, see instructions and refer to 40 CFR 72.30 and 72.31 and Chapter 62-214, F.A.C.

2147

Compliance

Revised

STEP 1 Identify the source by plant name, State, and ORIS code from NADB

Plant Name Northside Generating Station State FL ORIS Code 0667

Page 1

STEP 2 Enter the boiler ID# from NADB for each affected unit and indicate whether a repowering plan is being submitted for the unit by entering "yes" or "no" at column c. For new units, enter the requested information in columns d and e.

Plan Boiler ID# Unit will **New Units New Units** Repowering hold allowances Plan in accordance with 40 CFR Commence Monitor 72.9(c)(1) Certification Operation Date Deadline

1a	V	May 2002	August 2002
2a	Yes	February 2002	May 2002
	Yes	rebluary 2002	1VIAY 2002
1	Yes		
2	Yes		
3	Yes		
	Yes		

STEP 3
Check the box if the response in column c of Step 2 is "Yes for any unit

For each unit that will be repowered, the Repowering Extension Plan form is included and the Repowering Technology Petition form has been submitted or will be submitted by June 1, 1997.

Recordkeeping and Reporting Requirements (cont)

- (iv) Copies of all documents used to complete an Acid Rain part application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (2) The designated representative of an Acid Rain source and each Acid Rain unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain part application, an Acid Rain part, or a written exemption under 40 CFR 72.7 or 72.8, Including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
- (3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- (4) Each Acid Rain source and each Acid Rain unit shall meet the requirements of the Acid Rain Program.
- (5) Any provision of the Acid Rain Program that applies to an Acid Rain source (including a provision applicable to the designated representative of an Acid Rain source) shall also apply to the owners and operators of such source and of the Acid Rain units at the source.
- (6) Any provision of the Acid Rain Program that applies to an Acid Rain unit (including a provision applicable to the designated representative of an Acid Rain unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one Acid Rain unit shall not be liable for any violation by any other Acid Rain unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
- (7) Each violation of a provision of 40 CFR parts 72, 73, 75, 77, and 78 by an Acid Rain source or Acid Rain unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities. No provision of the Acid Rain Program, an Acid Rain part application, an Acid Rain part, or a written exemption under 40 CFR 72.7 or 72.8 shall be construed as:

- (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an Acid Rain source or Acid Rain unit from commitance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standard or State Implementation Plans;
- (2) Limiting the number of allowances a unit can hold: provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act:
- (3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
- (4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
- (5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certification

I am authorized to make this submission on behalf of the owners and operators of the Acid Rain source or Acid Rain units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or orinting required statements and information, including the possibility of fine or imprisonment.

Name	Jon P. Eckembach, Executive Vice President	
Signature	Ling Of	Date 10/24/00
		